FRNP-RPT-0412/V1

C-746-S&T Landfills
First Quarter Calendar Year 2026
(January–March)
Compliance Monitoring Report,
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky

FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC

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First Quarter Calendar Year 2026
(January–March)
Compliance Monitoring Report,
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky

Date Issued—May 2026

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

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

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ACRONYMS

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

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1. INTRODUCTION

This report, *C-746-S&T Landfills First Quarter Calendar Year 2026 (January–March) Compliance Monitoring Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, is being submitted in accordance with Solid Waste Landfill 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 that 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 and for all permit required parameters listed in 40 *CFR* § 302.4, Appendix A, 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 exceedances of the MCL and historical UTL that have occurred since the fourth quarter calendar year 2002. Methane monitoring results are documented on the approved C-746-S&T Landfills Methane Monitoring Report form provided in Appendix H. The form includes pertinent remarks/observations as required by 401 *KAR* 48:090 § 5. Surface water results 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-S&T Landfills are closed, solid waste landfills located north of the Paducah Site and south of the C-746-U Landfill. Construction and operation of the C-746-S Residential Landfill were permitted in April 1981 under Solid Waste Landfill Permit No. 073-00014. The permitted C-746-S Landfill area covers about 16 acres and contains a clay liner with a final cover of compacted soil. The C-746-S Landfill was a sanitary landfill for the Paducah Gaseous Diffusion Plant operations. The C-746-S Landfill is closed and has been inactive since July 1995.

Construction and operation of the C-746-T Inert Landfill were permitted in February 1985 under Solid Waste Landfill Permit No. 073-00015. The permitted C-746-T Landfill area covers about 20 acres and contains a clay liner with a final cover of compacted soil. The C-746-T Landfill was used to dispose of construction debris (e.g., concrete, wood, rock) and steam plant fly ash from the Paducah Gaseous Diffusion Plant operations. The C-746-T Landfill is closed and has been inactive since June 1992.

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 23 monitoring wells (MWs) under permit for the C-746-S&T Landfills: 5 UCRS wells, 11 URGA wells, and 7 LRGA wells. A map of the MW locations is presented in Figure 1. All MWs listed on the permit were sampled this quarter, except MW389 and MW390 (screened in the UCRS), which had insufficient amounts of water to obtain samples.

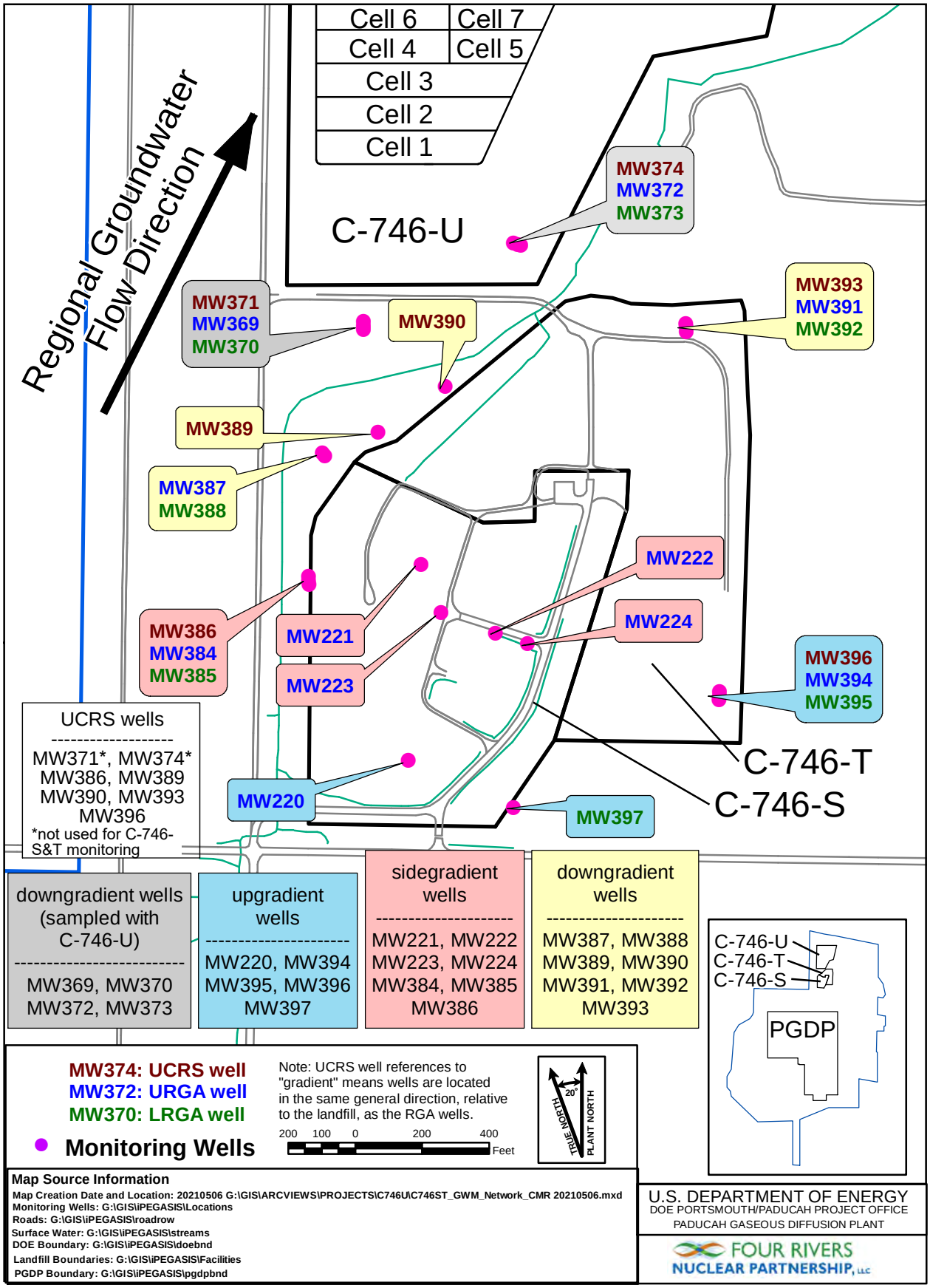

Figure 1. C-746-S&T Landfills Groundwater Monitoring Well Network

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,* PAD-PROJ-0139 (Groundwater Monitoring Plan), UCRS wells are included in the monitoring program (LATA Kentucky 2014). Groundwater flow gradients are downward through the UCRS, but the underlying Regional Gravel Aquifer (RGA) flows laterally. Groundwater flow in the RGA is typically in a north-northeasterly direction in the vicinity of the C-746-S&T Landfills. 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 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 (for background), and exceedances of these values are reported in the quarterly report.

Groundwater sampling was conducted within the first quarter 2026 in accordance with the Groundwater Monitoring Plan (LATA Kentucky 2014) using the Deactivation and Remediation Contractor, procedure CP4-ES-2101, *Groundwater Sampling*. Groundwater sampling for the first quarter 2026 was conducted on January 21–22, 2026, and February 9–11, 2026. The analytical laboratory used U.S. Environmental Protection Agency-approved methods, as applicable. The parameters specified in Permit Condition GSTR0003, Special Condition 2, were analyzed for all locations sampled.

The groundwater flow rate and direction determination are provided in Appendix E. Depth-to-water was measured on January 21, 2026, in MWs of the C-746-S&T Landfills (see Appendix E, Table E.1); in MWs of the C-746-U Landfill; and in MWs of the surrounding region (shown on Appendix E, Figure E.3). 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. During January 2026, RGA groundwater flow was directed inward and then north toward the Ohio River. The hydraulic gradient for the RGA in the vicinity of the C-746-S&T Landfills in January 2026 was 4.72×10^{-4} ft/ft, while the gradient beneath the C-746-S&T Landfills was approximately 4.08×10^{-4} ft/ft (see Appendix E, Table E.2). Calculated groundwater flow rates (average linear velocities) for the RGA at the C-746-S&T Landfills ranged from 6.93×10^{-1} to 1.18 ft/day (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 Solid Waste Landfill Permit. Industrial Hygiene staff monitored for the occurrence of methane in one on-site building location, four locations along the landfill boundary, and 27 passive gas vents located in Cells 1, 2, and 3 of the C-746-S Landfill on March 3, 2026. Appendix H provides a map of the monitoring locations (Appendix H, Figure H.1). Monitoring results identified that all locations were compliant with the regulatory requirement of < 100% lower explosive limit (LEL) at boundary locations and < 25% LEL at all other locations. The results are documented on the C-746-S&T Landfills Methane Monitoring Report provided in Appendix H.

1.2.3 Surface Water Monitoring

Surface water sampling was performed at the three locations monitored for the C-746-S&T Landfills: (1) upstream location L135, (2) instream location L154, and (3) instream location L136 (Figure 2). The sample at location L154 was collected on January 9, 2026. Samples from locations L135 and L136 were collected on February 10, 2026. Surface water was monitored, as specified in 401 *KAR* 48:300 § 2, 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 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, parameters that exceeded their respective MCLs are listed in Table 1. Those constituents that exceeded their respective MCL were evaluated further against their historical background UTL. Table 2 identifies parameters that have concentrations that exceeded the statistically derived historical background UTL during the first quarter 2026.[1] Those constituents (present in downgradient wells) that exceed their historical background UTL were evaluated against their current UTL-derived background using the most recent eight quarters of data from wells designated as background wells (Table 3).

Table 1. Summary of MCL Exceedances

UCRS	URGA	LRGA
None	MW372: Beta Activity	None
	MW387: Beta Activity	

The notification of parameters that exceeded the MCL has been submitted electronically to the Kentucky Division of Waste Management, in accordance with 401 *KAR* 48:300 § 7, prior to the submittal of this report.

The constituents that exceeded their MCL were subjected to a comparison against the UTL concentrations calculated using historical concentrations from wells identified as background. In accordance with the approved Groundwater Monitoring Plan, the MCL exceedance for beta activity in downgradient wells MW372 and MW387 exceed the historical background concentration and is further compared to the current background UTL (LATA Kentucky 2014).

[1] The UTL comparison for pH uses a two-sided test, both UTL and LTL.

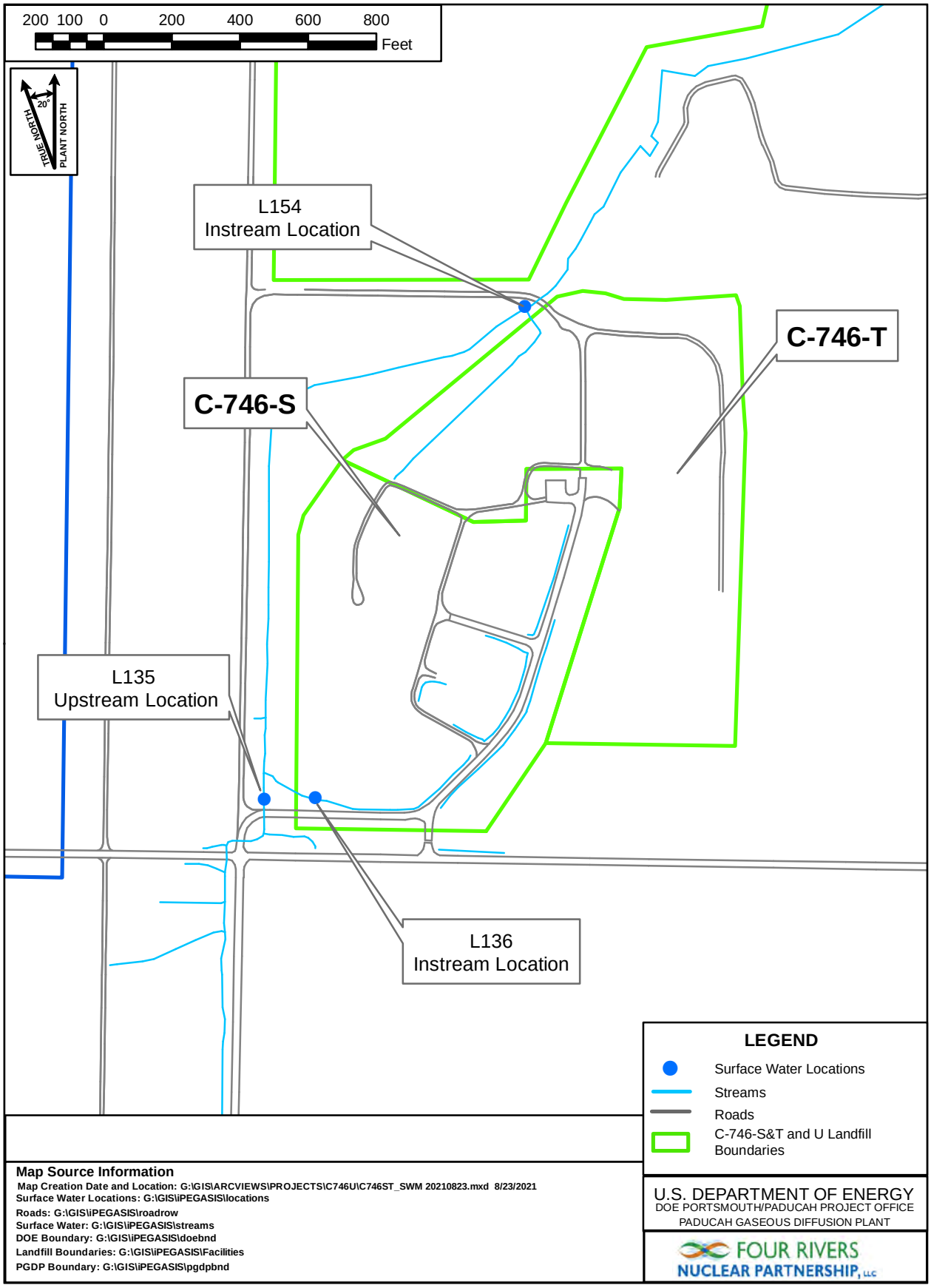

Figure 2. C-746-S&T Landfill Surface Water Monitoring Locations

Table 2. Exceedances of Statistically Derived Historical Background Concentrations

UCRS[a]	URGA	LRGA
MW386: Oxidation-reduction potential[b]	MW220: Oxidation-reduction potential[b]	MW370: Oxidation-reduction potential[b] and sulfate
MW393: Oxidation-reduction potential[b]	MW221: Oxidation-reduction potential[b]	MW373: Calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential,[b] sodium, and sulfate
MW396: Oxidation-reduction potential[b]	MW222: Oxidation-reduction potential[b]	MW385: Oxidation-reduction potential,[b] sulfate, and technetium-99
	MW223: Oxidation-reduction potential[b]	MW388: Oxidation-reduction potential[b] and sulfate
	MW224: Oxidation-reduction potential[b] and sodium	MW392: Oxidation-reduction potential[b]
	MW369: Technetium-99	MW395: Oxidation-reduction potential[b]
	MW372: Beta activity, calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential,[b] sodium, sulfate, and technetium-99	MW397: Oxidation-reduction potential[b]
	MW384: Oxidation-reduction potential,[b] sulfate, and technetium-99	
	MW387: Beta activity, calcium, dissolved solids, magnesium, oxidation-reduction potential,[b] sulfate, and technetium-99	
	MW391: Oxidation-reduction potential[b]	
	MW394: 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: MW221, MW222, MW223, MW224, MW384, MW385, and MW386.
Downgradient wells: MW369, MW370, MW372, MW373, MW387, MW388, MW389, MW390, MW391, MW392, and MW393.
Background wells: MW220, MW394, MW395, MW396, and MW397.

This report serves as the notification of parameters that had statistically significant increased concentrations relative to historical background concentrations, as required by Permit No. SW07300014, SW07300015, SW07300045, Condition GSTR0003, Standard Requirement 5, and 401 *KAR* 48:300 § 7.

The constituents listed in Table 2 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 to identify if the current downgradient well concentrations are consistent with current background values. The current background UTL was developed using the most recent eight quarters of data from wells identified as background wells. Table 3 summarizes the evaluation against current background UTL for those constituents present in downgradient 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-S&T Landfills source; therefore, they are Type 1 exceedances—not attributable to the C-746-S&T Landfills (LATA Kentucky 2014).

Table 3. Exceedances of Current Background UTL in Downgradient Wells

URGA	LRGA
MW369: Technetium-99	MW370: Sulfate
MW372: Beta activity, calcium, conductivity, dissolved solids, magnesium, sodium, sulfate, and technetium-99	MW373: Calcium, conductivity, dissolved solids, magnesium, and sulfate
MW387: Beta activity, calcium, magnesium, sulfate, and technetium-99	MW388: Sulfate

The constituents listed in Table 3 that exceed both the historical UTL and the current UTL and do not have an identified source are considered preliminarily to be Type 2 exceedances, per the approved Groundwater Monitoring Plan (LATA Kentucky 2014). To evaluate these preliminary Type 2 exceedances further, the parameters were subjected to the Mann-Kendall statistical test for trend using the most recent eight quarters of data. The results are summarized in Table 4. Eighteen of the 21 preliminary Type 2 exceedances in downgradient wells do not have increasing trends and are considered to be Type 1 exceedances—not attributable to the C-746-S&T Landfills.

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

Location	Well ID	Parameter	Sample Size	Alpha[a]	p-Value[b]	S[c]	Decision
C-746-S&T Landfills	MW369	Technetium-99	8	0.05	0.548	0	No Trend
	MW370	Sulfate	8	0.05	0.031	-17	Decreasing
	MW372	Beta activity	8	0.05	0.089	12	No Trend
	MW372	Calcium	8	0.05	0.138	10	No Trend
	MW372	Conductivity	8	0.05	0.452	-3	No Trend
	MW372	Dissolved Solids	8	0.05	0.36	4	No Trend
	MW372	Magnesium	8	0.05	0.452	3	No Trend
	MW372	Sodium	8	0.05	0.054	15	No Trend
	MW372	Sulfate	8	0.05	0.548	0	No Trend
	MW372	Technetium-99	8	0.05	0.36	4	No Trend
	MW373	Calcium	8	0.05	0.274	6	No Trend
	MW373	Conductivity	8	0.05	0.054	14	No Trend
	MW373	Dissolved Solids	8	0.05	0.016	19	Increasing
	MW373	Magnesium	8	0.05	0.119	9	No Trend
	MW373	Sulfate	8	0.05	0.054	15	No Trend
	MW387	Beta activity	8	0.05	0.031	16	Increasing
	MW387	Calcium	8	0.05	0.138	11	No Trend
	MW387	Magnesium	8	0.05	0.452	3	No Trend
	MW387	Sulfate	8	0.05	0.002	22	Increasing
	MW387	Technetium-99	8	0.05	0.089	12	No Trend
	MW388	Sulfate	8	0.05	0.274	-7	No Trend

Table 4. C-746-S&T Landfills Downgradient Wells Trend Summary Utilizing the Previous Eight Quarters (Continued)

[a] An alpha of 0.05 represents a 95% confidence interval.
[b] The p-value represents the risk of acceptance of the H_a hypothesis of a trend, in terms of a percentage.
[c] The initial value of the Mann-Kendall statistic, S, is assumed to be 0 (i.e., 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.
NOTE: Statistics were generated using ProUCL.

Three of the 21 preliminary Type 2 exceedances in downgradient wells had an increasing trend. Specifically, the Mann-Kendall statistical test indicates an increasing trend for dissolved solids in LRGA well MW373. Additionally, increasing trends were observed for beta activity and sulfate in URGA well MW387 and should be considered a Type 2 exceedance.

It should be noted that over the past eight quarters, concentrations of conductivity, dissolved solids, and various soluble cations (calcium, magnesium, sodium, etc.) and anions in URGA well MW372 are consistently lower than those shown in collocated LRGA well MW373. Because these parameters are lower in the shallower screened well at this location, the C-746-S&T Landfills are likely not the source of the concentrations observed in the deeper screened well; therefore, the observed trends in MW373 should be considered Type 2 exceedances—sources undetermined. Additionally, potential sources of increased beta activity and sulfate in MW387 other than the C-746-S&T Landfills are present. Evaluation of beta activity, dissolved solids, and sulfate trends through future quarterly monitoring events is recommended.

In accordance with Permit Condition GSTR0003, Special Condition 3, of the Solid Waste Landfill Permit, the groundwater assessment and corrective action requirements of 401 *KAR* 48:300 § 8 shall not apply to the C-746-S Residential Landfill and the C-746-T Inert Landfill. This variance in the permit provides that groundwater assessment and corrective actions for these landfills will be conducted in accordance with the corrective action requirements of 401 *KAR* 39:090.

The statistical evaluation of UCRS concentrations against the current UCRS background UTL did not identify any downgradient UCRS wells exceeding both the historical and current backgrounds (Table 5).

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

UCRS
None

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

All MCL and UTL exceedances reported for this quarter, except for dissolved solids in MW373, and beta activity and sulfate in MW387, were evaluated and considered to be Type 1 exceedances—not attributable to the C-746-S&T Landfills.

2. DATA EVALUATION/STATISTICAL SYNOPSIS

The statistical analyses conducted on the first quarter 2026 groundwater data collected from the C-746-S&T Landfill MWs were performed in accordance with the Groundwater Monitoring Plan (LATA Kentucky 2014). The statistical analyses for this report utilize data from the first eight quarters that were sampled for each parameter, beginning with the first two 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).

For those parameters that exceed the MCL for Kentucky solid waste facilities found in 401 *KAR* 47:030 § 6, exceedances are documented and evaluated further as follows. Exceedances are reviewed against historical background results (UTL). If the MCL exceedance is found not to exceed the historical UTL, the exceedance is noted as a Type 1 exceedance—an exceedance not attributable to the landfills. If there is an exceedance of the MCL in a downgradient well and this constituent also exceeds the historical background, the quarterly result is compared to the current background UTL (developed using the most recent eight quarters of data from wells identified as downgradient wells) to identify if this exceedance is attributable to upgradient/non-landfill sources. If the downgradient well concentration is less than the current background, the exceedance is noted as a Type 1 exceedance. If a constituent exceeds its Kentucky solid waste facility MCL, historical background UTL, and current background UTL, it is reported as a Type 2 exceedance—source undetermined. Type 2 exceedances (undetermined source) are further evaluated using the Mann-Kendall test for trend. If there is not a statistically significant increasing trend for a constituent in a downgradient well, the exceedance is reclassified as a Type 1 exceedance—not attributable to the landfills.

For those parameters that do not have a Kentucky solid waste facility MCL, the same process is used. If a constituent without an MCL exceeds its historical background UTL and its current background UTL, it is evaluated further to identify the source of the exceedance, if possible. If the source of the exceedance cannot be identified, it is reported as a Type 2 exceedance—source undetermined. Type 2 exceedances (undetermined source) are further evaluated using the Mann-Kendall test for trend. If there is not a statistically significant increasing trend for a constituent in a downgradient well, the exceedance is reclassified as a Type 1 exceedance—not attributable to the landfills.

To calculate the UTL, the data are divided into censored (nondetects) and uncensored (detected) observations. The one-sided tolerance interval statistical test is conducted only on parameters that have at least one uncensored observation. Results of the one-sided tolerance interval statistical test are used to determine whether the data show 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 is conducted. The test well results are compared to both the UTL and LTL to determine if statistically significant deviations in concentrations exist 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
MW386	MW220 (background)	MW370
MW389[b]	MW221	MW373
MW390[b]	MW222	MW385
MW393	MW223	MW388
MW396[c]	MW224	MW392
	MW369	MW395 (background)
	MW372	MW397 (background)
	MW384	
	MW387	
	MW391	
	MW394 (background)	

[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 background.

2.1 STATISTICAL ANALYSIS OF GROUNDWATER DATA

Parameters requiring statistical analysis are summarized in Appendix D for each hydrological 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 exceedances 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 background in order to determine if the current downgradient well concentrations are consistent with current background values. Table 3 summarizes the constituents present in downgradient wells with historical UTL exceedances that are above the current UTL. Those constituents that have exceeded both the historical and current background UTLs in downgradient wells were further evaluated for increasing trends and are listed in Table 4.

2.1.1 Upper Continental Recharge System

In this quarter, 26 parameters, including those with MCLs, required statistical analysis in the UCRS. During the first quarter, oxidation-reduction potential exceeded the respective historical UTL and are listed in Table 2. There were no current background UTL exceedances in downgradient UCRS wells.

2.1.2 Upper Regional Gravel Aquifer

In this quarter, 27 parameters, including those with MCLs, required statistical analysis in the URGA. During the first quarter, beta activity, calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential, sodium, sulfate, and technetium-99 displayed concentrations that exceeded their respective historical UTLs and are listed in Table 2. Beta activity, calcium, conductivity, dissolved solids, magnesium, sodium, sulfate, and technetium-99 exceeded the current background UTL in downgradient URGA wells and are included in Table 3.

2.1.3 Lower Regional Gravel Aquifer

In this quarter, 27 parameters, including those with MCLs, required statistical analysis in the LRGA. During the first quarter, calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential, sodium, sulfate, and technetium-99 displayed concentrations that exceeded their respective historical UTL and are listed in Table 2. Calcium, conductivity, dissolved solids, magnesium, and sulfate exceeded the current background UTL in downgradient wells and are included in Table 3.

2.2 DATA VERIFICATION AND VALIDATION

Data verification is the process of comparing a data set against set standard or contractual requirements. In accordance with the approved Groundwater Monitoring Plan (LATA Kentucky 2014), data verification is performed for 100% of the data. 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 for 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 tables 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.

All first quarter groundwater samples underwent data verification and validation. With the exception of cyanide in MW395, verification and validation results for this data set indicated that all data were considered usable. Validation codes are shown on the data report in Appendix C.

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3. PROFESSIONAL GEOLOGIST AUTHORIZATION

DOCUMENT IDENTIFICATION: *C-746-S&T Landfills First Quarter Calendar Year 2026 (January–March) Compliance Monitoring Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (FRNP-RPT-0412/V1)

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

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

113927
KD 5-14-2026

Kenneth R. Davis

Kenneth R. Davis | PG113927 | May 14, 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.

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

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APPENDIX A

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

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

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

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

Activity: C-746-S&T Landfills

Permit No: SW07300014, SW07300015, SW07300045

Finds/Unit No: _____

Quarter & Year 1st Qtr. CY 2026

Please check the following as applicable:

_____ Characterization X Quarterly _____ Semiannual _____ Annual _____ Assessment

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

_____ Leachate X Methane Monitoring

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

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

MYRNA REDFIELD (Affiliate) Digitally signed by MYRNA REDFIELD (Affiliate) Date: 2026.05.19 14:45:54 -05'00'

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

APRIL LADD Digitally signed by APRIL LADD Date: 2026.05.21 13:21:40 -05'00'

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

Sampling Date: Groundwater: January 2026–February 2026
Methane: March 2026
Surface Water: January 2026–February 2026 County: McCracken Permit Nos. SW07300014, SW07300015, SW07300045

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

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

Phone No: (270) 441-6800 Latitude: N 37° 07' 37.70" Longitude: W 88° 47' 55.41"

OWNER INFORMATION

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

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

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

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

SAMPLING PERSONNEL
(IF OTHER THAN LANDFILL OR LABORATORY)

Company: Four Rivers Nuclear Partnership, LLC

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

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

LABORATORY RECORD #1

Laboratory: GEL Laboratories, LLC Lab ID No: KY90129

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

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

LABORATORY RECORD #2

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

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

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

LABORATORY RECORD #3

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

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

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

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APPENDIX C

GROUNDWATER SAMPLE ANALYSES AND LABORATORY REPORTS

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Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW220 UP **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5201 **SAMPLE ID:** MW220SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.2	mg/L	J	0.2	/	SW846-9056A		=
Chloride	18.7	mg/L		0.4	/	SW846-9056A		=
Fluoride	0.163	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.773	mg/L		0.2	/	SW846-9056A		=
Sulfate	16.4	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.08	Inches/Hg			/	FS		X
Conductivity	320	µmhos/cm			/	FS		X
Depth to Water	58.74	ft			/	FS		X
Dissolved Oxygen	6.1	mg/L			/	FS		X
Eh (approx)	577.9	mV			/	FS		X
pH	5.83	Std Unit			/	FS		X
Temperature	61	deg F			/	FS		X
Turbidity	1.78	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.186	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.00993	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	20.7	mg/L		0.2	/	SW846-6020B		=
Chromium	0.00322	mg/L	J	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00272	mg/L		0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	8.73	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0015	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.000606	mg/L	J	0.001	/	SW846-6020B		U
Nickel	0.00564	mg/L		0.002	/	SW846-6020B		=
Potassium	4.68	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.00164	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	37.9	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00582	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.184	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.0032	mg/L	J	0.01	/	SW846-6020B		J
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	-0.195	pCi/L	U	0.897	0.351 / 0.352	AN-1418		=
Strontium-90	-0.108	pCi/L	U	6.41	3.51 / 3.51	EPA-905.0-M		=
Tritium	-59.2	pCi/L	U	241	112 / 112	EPA-906.0-M		=
Technetium-99	10.6	pCi/L	U	14.6	8.87 / 8.95	HASL 300, Tc-02-RC M		=
Thorium-230	1.79	pCi/L	U	2	1.6 / 1.63	HASL 300, Th-01-RC M		=
Alpha activity	0.0942	pCi/L	U	6.63	2.87 / 2.87	SW846-9310		=
Beta activity	14.8	pCi/L		9.24	6.67 / 7.09	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW220 UP **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5201 **SAMPLE ID:** MW220SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.99	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	188	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	6.48	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW220 UP **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5201 **SAMPLE ID:** MW220SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.707	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW221 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5202 **SAMPLE ID:** MW221SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.171	mg/L	J	0.2	/	SW846-9056A		=
Chloride	33.3	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.198	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.968	mg/L		0.4	/	SW846-9056A		=
Sulfate	14	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.15	Inches/Hg			/	FS		X
Conductivity	383	µmhos/cm			/	FS		X
Depth to Water	68.44	ft			/	FS		X
Dissolved Oxygen	5.84	mg/L			/	FS		X
Eh (approx)	525.6	mV			/	FS		X
pH	5.94	Std Unit			/	FS		X
Temperature	55.7	deg F			/	FS		X
Turbidity	3.96	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.196	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0185	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	20.8	mg/L		0.2	/	SW846-6020B		=
Chromium	0.00409	mg/L	J	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00412	mg/L		0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	9.27	mg/L		0.03	/	SW846-6020B		=
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.00183	mg/L		0.001	/	SW846-6020B		=
Nickel	0.00717	mg/L		0.002	/	SW846-6020B		=
Potassium	1.61	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	47.5	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.0104	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.197	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	-0.148	pCi/L	U	0.623	0.186 / 0.187	AN-1418		=
Strontium-90	-0.246	pCi/L	U	4.75	2.51 / 2.51	EPA-905.0-M		=
Tritium	109	pCi/L	U	129	86.6 / 89.1	EPA-906.0-M		=
Technetium-99	3.53	pCi/L	U	14.9	8.55 / 8.56	HASL 300, Tc-02-RC M		=
Thorium-230	-0.141	pCi/L	U	2.76	1.18 / 1.18	HASL 300, Th-01-RC M		=
Alpha activity	-0.0292	pCi/L	U	8.08	3.54 / 3.54	SW846-9310		=
Beta activity	6.51	pCi/L	U	9.68	5.97 / 6.07	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW221 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5202 **SAMPLE ID:** MW221SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	2.07	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	214	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	7.86	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW221 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5202 **SAMPLE ID:** MW221SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.695	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW222 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5242 **SAMPLE ID:** MW222SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.359	mg/L		0.2	/	SW846-9056A		=
Chloride	28.9	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.218	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.08	mg/L		0.4	/	SW846-9056A		=
Sulfate	10.6	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.16	Inches/Hg			/	FS		X
Conductivity	316	µmhos/cm			/	FS		X
Depth to Water	72.34	ft			/	FS		X
Dissolved Oxygen	5.78	mg/L			/	FS		X
Eh (approx)	550.4	mV			/	FS		X
pH	6.03	Std Unit			/	FS		X
Temperature	61	deg F			/	FS		X
Turbidity	3.18	NTU			/	FS		X
Aluminum	0.0732	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.226	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.00835	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	15.8	mg/L		0.2	/	SW846-6020B		=
Chromium	0.00361	mg/L	J	0.01	/	SW846-6020B		=
Cobalt	0.000986	mg/L	J	0.001	/	SW846-6020B		=
Copper	0.00195	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.106	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	7.09	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00566	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.00191	mg/L		0.001	/	SW846-6020B		=
Nickel	0.0193	mg/L		0.002	/	SW846-6020B		=
Potassium	0.456	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	44.5	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00445	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.223	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.256	pCi/L	U	0.757	0.448 / 0.449	AN-1418		=
Strontium-90	-1.93	pCi/L	U	4.47	2.04 / 2.04	EPA-905.0-M		=
Tritium	-18.7	pCi/L	U	129	55.2 / 55.2	EPA-906.0-M		=
Technetium-99	4.34	pCi/L	U	14.8	8.58 / 8.6	HASL 300, Tc-02-RC M		=
Thorium-230	-0.663	pCi/L	U	2.38	0.77 / 0.771	HASL 300, Th-01-RC M		=
Alpha activity	1.22	pCi/L	U	8.3	4.2 / 4.2	SW846-9310		=
Beta activity	5.21	pCi/L	U	9.1	5.49 / 5.56	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW222 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5242 **SAMPLE ID:** MW222SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	2.14	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	192	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	7.02	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW222 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5242 **SAMPLE ID:** MW222SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.617	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW223 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5243 **SAMPLE ID:** MW223SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.404	mg/L	J	0.8	/	SW846-9056A		=
Chloride	29.5	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.232	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.1	mg/L		0.4	/	SW846-9056A		=
Sulfate	12.3	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.16	Inches/Hg			/	FS		X
Conductivity	371	µmhos/cm			/	FS		X
Depth to Water	71.53	ft			/	FS		X
Dissolved Oxygen	3.27	mg/L			/	FS		X
Eh (approx)	509.6	mV			/	FS		X
pH	5.93	Std Unit			/	FS		X
Temperature	59.6	deg F			/	FS		X
Turbidity	5.67	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.228	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.00765	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	21.1	mg/L		0.2	/	SW846-6020B		=
Chromium	0.0502	mg/L		0.01	/	SW846-6020B		=
Cobalt	0.00151	mg/L		0.001	/	SW846-6020B		=
Copper	0.00419	mg/L		0.002	/	SW846-6020B		=
Iron	0.307	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	8.78	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0098	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.0103	mg/L		0.001	/	SW846-6020B		=
Nickel	0.45	mg/L		0.002	/	SW846-6020B		=
Potassium	3.01	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	46	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00664	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.222	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.00887	mg/L	J	0.01	/	SW846-6020B		J
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.266	pCi/L	U	0.552	0.37 / 0.371	AN-1418		=
Strontium-90	-2.07	pCi/L	U	6.73	3.44 / 3.44	EPA-905.0-M		=
Tritium	41	pCi/L	U	129	71.3 / 71.7	EPA-906.0-M		=
Technetium-99	2.27	pCi/L	U	14.5	8.23 / 8.23	HASL 300, Tc-02-RC M		=
Thorium-230	0.521	pCi/L	U	2.49	1.37 / 1.37	HASL 300, Th-01-RC M		=
Alpha activity	1	pCi/L	U	7.05	3.44 / 3.44	SW846-9310		=
Beta activity	5.21	pCi/L	U	9.12	5.5 / 5.57	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW223 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5243 **SAMPLE ID:** MW223SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	2.03	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	201	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	8.5	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW223 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5243 **SAMPLE ID:** MW223SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.658	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW224 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5244 **SAMPLE ID:** MW224SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.239	mg/L	J	0.4	/	SW846-9056A		=
Chloride	15.1	mg/L		0.4	/	SW846-9056A		=
Fluoride	0.273	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.987	mg/L		0.2	/	SW846-9056A		=
Sulfate	12.1	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.12	Inches/Hg			/	FS		X
Conductivity	371	µmhos/cm			/	FS		X
Depth to Water	72.64	ft			/	FS		X
Dissolved Oxygen	3.37	mg/L			/	FS		X
Eh (approx)	526.9	mV			/	FS		X
pH	5.93	Std Unit			/	FS		X
Temperature	62	deg F			/	FS		X
Turbidity	1.76	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.185	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0159	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	20.1	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00289	mg/L		0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	8.91	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00121	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.000512	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.00479	mg/L		0.002	/	SW846-6020B		=
Potassium	0.849	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	59	mg/L		1.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00561	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.19	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.269	pCi/L	U	0.717	0.436 / 0.436	AN-1418		=
Strontium-90	-1.07	pCi/L	U	3.56	1.6 / 1.6	EPA-905.0-M		=
Tritium	43.1	pCi/L	U	128	71.6 / 72.1	EPA-906.0-M		=
Technetium-99	7.95	pCi/L	U	15.2	9.04 / 9.08	HASL 300, Tc-02-RC M		=
Thorium-230	0.609	pCi/L	U	2.5	1.4 / 1.41	HASL 300, Th-01-RC M		=
Alpha activity	0.376	pCi/L	U	7.69	3.49 / 3.49	SW846-9310		=
Beta activity	0.839	pCi/L	U	10.1	5.43 / 5.43	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW224 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5244 **SAMPLE ID:** MW224SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	2.02	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	251	mg/L		10	/	EPA-160.1		J
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	9.06	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW224 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8000-5244 **SAMPLE ID:** MW224SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.787	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW369 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG2-26 **Sample Type:** REG **Date Collected:** 1/21/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.339	mg/L		0.2	/	SW846-9056A		=
Chloride	26.1	mg/L		1	/	SW846-9056A		=
Fluoride	0.163	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.12	mg/L		0.5	/	SW846-9056A		=
Sulfate	7.72	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.17	Inches/Hg			/	FS		X
Conductivity	350	µmhos/cm			/	FS		X
Depth to Water	41.03	ft			/	FS		X
Dissolved Oxygen	3.42	mg/L			/	FS		X
Eh (approx)	369.1	mV			/	FS		X
pH	5.85	Std Unit			/	FS		X
Temperature	58.7	deg F			/	FS		X
Turbidity	1.08	NTU			/	FS		X
Aluminum	0.0684	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.366	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.018	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	16.1	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.00432	mg/L		0.001	/	SW846-6020B		=
Copper	0.00144	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.115	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	6.84	mg/L	N	0.03	/	SW846-6020B		J
Manganese	0.00444	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00237	mg/L		0.002	/	SW846-6020B		=
Potassium	0.553	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.00284	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	53.3	mg/L		1.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.364	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1221	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1232	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1242	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1248	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1254	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1260	0.101	ug/L	U	0.101	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW369 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG2-26 **Sample Type:** REG **Date Collected:** 1/21/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.101	ug/L	U	0.101	/	SW846-8082A		=
Polychlorinated biphenyl	0.101	ug/L	U	0.101	/	SW846-8082A		=
Radium-226	0.118	pCi/L	U	0.593	0.32 / 0.32	AN-1418		=
Radium-228	8.95	pCi/L		5.48	3.9 / 4.57	EPA-904.0-M		=
Strontium-90	-0.537	pCi/L	U	4.85	2.52 / 2.52	EPA-905.0-M		=
Tritium	15.4	pCi/L	U	222	117 / 117	EPA-906.0-M		=
Technetium-99	53	pCi/L		17.2	12.6 / 13.9	HASL 300, Tc-02-RC M		=
Thorium-230	2.67	pCi/L	U	3.39	2.68 / 2.74	HASL 300, Th-01-RC M		=
Thorium-232	-0.591	pCi/L	U	3.36	1.08 / 1.08	HASL 300, Th-01-RC M		=
Alpha activity	0.176	pCi/L	U	6.47	2.78 / 2.78	SW846-9310		=
Beta activity	27.5	pCi/L		12.9	9.42 / 10.4	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW369 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG2-26 **Sample Type:** REG **Date Collected:** 1/21/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		UJ
Trichloroethene	0.72	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	186	mg/L	*	10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	UN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	12.4	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.675	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW370 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG2-26 **Sample Type:** REG **Date Collected:** 1/21/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.517	mg/L		0.2	/	SW846-9056A		=
Chloride	40	mg/L		1	/	SW846-9056A		=
Fluoride	0.14	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.13	mg/L		0.5	/	SW846-9056A		=
Sulfate	19.2	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.14	Inches/Hg			/	FS		X
Conductivity	415	µmhos/cm			/	FS		X
Depth to Water	41.87	ft			/	FS		X
Dissolved Oxygen	5.29	mg/L			/	FS		X
Eh (approx)	457.3	mV			/	FS		X
pH	5.91	Std Unit			/	FS		X
Temperature	56.9	deg F			/	FS		X
Turbidity	1.03	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.22	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0732	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	26.7	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00116	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	11.3	mg/L	N	0.03	/	SW846-6020B		J
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	2.45	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	41.1	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.211	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1221	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1232	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1242	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1248	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1254	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1260	0.101	ug/L	U	0.101	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW370 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG2-26 **Sample Type:** REG **Date Collected:** 1/21/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.101	ug/L	U	0.101	/	SW846-8082A		=
Polychlorinated biphenyl	0.101	ug/L	U	0.101	/	SW846-8082A		=
Radium-226	0.43	pCi/L	U	0.565	0.416 / 0.419	AN-1418		=
Radium-228	2.59	pCi/L	U	4.86	2.91 / 3	EPA-904.0-M		=
Strontium-90	1.92	pCi/L	U	2.67	1.68 / 1.7	EPA-905.0-M		=
Tritium	118	pCi/L	U	223	133 / 135	EPA-906.0-M		=
Technetium-99	4.54	pCi/L	U	17.6	10.2 / 10.2	HASL 300, Tc-02-RC M		=
Thorium-230	1.18	pCi/L	U	4.27	2.45 / 2.46	HASL 300, Th-01-RC M		=
Thorium-232	-0.139	pCi/L	U	2.4	1.01 / 1.01	HASL 300, Th-01-RC M		=
Alpha activity	3.23	pCi/L	U	6.91	4.12 / 4.15	SW846-9310		=
Beta activity	6.1	pCi/L	U	13.5	7.94 / 8	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW370 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG2-26 **Sample Type:** REG **Date Collected:** 1/21/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		UJ
Trichloroethene	1.55	ug/L		1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	215	mg/L	*	10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	UN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	7.02	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.617	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW372 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG2-26 **Sample Type:** REG **Date Collected:** 1/22/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.454	mg/L		0.2	/	SW846-9056A		=
Chloride	36.3	mg/L		2	/	SW846-9056A		=
Fluoride	0.187	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.18	mg/L		1	/	SW846-9056A		=
Sulfate	148	mg/L		4	/	SW846-9056A		=
Barometric Pressure Reading	30.35	Inches/Hg			/	FS		X
Conductivity	755	µmhos/cm			/	FS		X
Depth to Water	36.43	ft			/	FS		X
Dissolved Oxygen	3.61	mg/L			/	FS		X
Eh (approx)	516.2	mV			/	FS		X
pH	6.03	Std Unit			/	FS		X
Temperature	55	deg F			/	FS		X
Turbidity	3.41	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0504	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	1.29	mg/L		0.15	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	70.2	mg/L		2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00171	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0412	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	22.9	mg/L		0.03	/	SW846-6020B		=
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	2.12	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.0027	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	69.5	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	UN	0.002	/	SW846-6020B		UJ
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00588	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0503	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.00342	mg/L	J	0.01	/	SW846-6020B		J
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1221	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1232	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1242	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1248	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1254	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1260	0.1	ug/L	U	0.1	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW372 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG2-26 **Sample Type:** REG **Date Collected:** 1/22/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.1	ug/L	U	0.1	/	SW846-8082A		=
Polychlorinated biphenyl	0.1	ug/L	U	0.1	/	SW846-8082A		=
Radium-226	0.163	pCi/L	U	0.707	0.391 / 0.391	AN-1418		=
Radium-228	3.51	pCi/L	U	4.7	2.96 / 3.12	EPA-904.0-M		=
Strontium-90	-1.73	pCi/L	U	5.7	2.84 / 2.84	EPA-905.0-M		=
Tritium	0.98	pCi/L	U	247	125 / 125	EPA-906.0-M		=
Technetium-99	74.6	pCi/L		17.1	13.5 / 15.9	HASL 300, Tc-02-RC M		=
Thorium-230	0.769	pCi/L	U	2.51	1.43 / 1.44	HASL 300, Th-01-RC M		=
Thorium-232	-0.165	pCi/L	U	1.25	0.432 / 0.433	HASL 300, Th-01-RC M		=
Alpha activity	1.59	pCi/L	UM	7.8	4.05 / 4.06	SW846-9310		UJ
Beta activity	50.2	pCi/L		9.8	10.2 / 13.1	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		UJ
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		UJ
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
Ethylbenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW372 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG2-26 **Sample Type:** REG **Date Collected:** 1/22/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.66	ug/L	JY1	1	/	SW846-8260D		J
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	478	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	10.4	mg/L	J	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	UN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	8.2	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.23	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW373 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG2-26 **Sample Type:** REG **Date Collected:** 1/22/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.476	mg/L	J	0.8	/	SW846-9056A		=
Chloride	29.9	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.173	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.539	mg/L		0.4	/	SW846-9056A		=
Sulfate	221	mg/L		8	/	SW846-9056A		=
Barometric Pressure Reading	30.36	Inches/Hg			/	FS		X
Conductivity	942	µmhos/cm			/	FS		X
Depth to Water	36.74	ft			/	FS		X
Dissolved Oxygen	2.01	mg/L			/	FS		X
Eh (approx)	478.4	mV			/	FS		X
pH	5.87	Std Unit			/	FS		X
Temperature	58	deg F			/	FS		X
Turbidity	5	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0283	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	2.73	mg/L		0.375	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	88.5	mg/L		5	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.000937	mg/L	J	0.001	/	SW846-6020B		=
Copper	0.00138	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.06	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	31.7	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0974	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00165	mg/L	J	0.002	/	SW846-6020B		=
Potassium	2.97	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	72.6	mg/L		6.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	UN	0.002	/	SW846-6020B		UJ
Uranium	0.000108	mg/L	J	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00378	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0289	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.000106	mg/L	J	0.0002	/	SW846-6020B		J
PCB-1016	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
PCB-1221	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
PCB-1232	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
PCB-1242	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
PCB-1248	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
PCB-1254	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
PCB-1260	0.0986	ug/L	U	0.0986	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW373 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG2-26 **Sample Type:** REG **Date Collected:** 1/22/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
Polychlorinated biphenyl	0.0986	ug/L	U	0.0986	/	SW846-8082A		=
Radium-226	0.217	pCi/L	U	0.544	0.351 / 0.352	AN-1418		=
Radium-228	2.1	pCi/L	U	4.72	2.77 / 2.83	EPA-904.0-M		=
Strontium-90	2.24	pCi/L	U	5.54	3.23 / 3.24	EPA-905.0-M		=
Tritium	-25.5	pCi/L	U	245	119 / 119	EPA-906.0-M		=
Technetium-99	1.21	pCi/L	U	17.5	9.9 / 9.9	HASL 300, Tc-02-RC M		=
Thorium-230	0.153	pCi/L	U	3.07	1.49 / 1.5	HASL 300, Th-01-RC M		=
Thorium-232	-0.509	pCi/L	U	2.27	0.687 / 0.688	HASL 300, Th-01-RC M		=
Alpha activity	0.228	pCi/L	UM	6.78	2.91 / 2.92	SW846-9310		UJ
Beta activity	7.47	pCi/L	U	11.1	6.81 / 6.92	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		UJ
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		UJ
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
Ethylbenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW373 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG2-26 **Sample Type:** REG **Date Collected:** 1/22/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	2.39	ug/L	Y1	1	/	SW846-8260D		J
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	666	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	UN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	10.8	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.52	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW384 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4809 **SAMPLE ID:** MW384DSG2-26 **Sample Type:** FR **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.274	mg/L	J	0.4	/	SW846-9056A		=
Chloride	21.5	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.148	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.779	mg/L		0.4	/	SW846-9056A		=
Sulfate	19.8	mg/L		0.8	/	SW846-9056A		=
Aluminum	0.0325	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.218	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.104	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	24.3	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00145	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0633	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	10.4	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00185	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	1.47	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	46.7	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.226	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.0605	pCi/L	U	0.629	0.328 / 0.328	AN-1418		=
Strontium-90	0.893	pCi/L	U	5.37	2.86 / 2.87	EPA-905.0-M		=
Tritium	-51.3	pCi/L	U	195	88.6 / 88.7	EPA-906.0-M		=
Technetium-99	30	pCi/L		22	13.6 / 14	HASL 300, Tc-02-RC M		=
Thorium-230	0.928	pCi/L	U	2.32	1.46 / 1.48	HASL 300, Th-01-RC M		=
Alpha activity	0.763	pCi/L	U	6.94	3.27 / 3.28	SW846-9310		=
Beta activity	16.7	pCi/L		9.72	7.14 / 7.64	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW384 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4809 **SAMPLE ID:** MW384DSG2-26 **Sample Type:** FR **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.61	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	229	mg/L	*	10	/	EPA-160.1	J	=
Chemical Oxygen Demand (COD)	20	mg/L	UN	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	9.72	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.2	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW384 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4809 **SAMPLE ID:** MW384SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.284	mg/L	J	0.4	/	SW846-9056A		=
Chloride	21.6	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.152	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.778	mg/L		0.4	/	SW846-9056A		=
Sulfate	19.9	mg/L		0.8	/	SW846-9056A		=
Barometric Pressure Reading	29.98	Inches/Hg			/	FS		X
Conductivity	426	µmhos/cm			/	FS		X
Depth to Water	42.1	ft			/	FS		X
Dissolved Oxygen	5.7	mg/L			/	FS		X
Eh (approx)	544.6	mV			/	FS		X
pH	5.89	Std Unit			/	FS		X
Temperature	60	deg F			/	FS		X
Turbidity	5.12	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.221	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.106	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	25.1	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00242	mg/L		0.002	/	SW846-6020B		=
Iron	0.0655	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	10.7	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0024	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	1.47	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	47.8	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00557	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.22	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.124	pCi/L	U	0.4	0.246 / 0.247	AN-1418		=
Strontium-90	-3.01	pCi/L	U	7.67	3.53 / 3.53	EPA-905.0-M		=
Tritium	48.3	pCi/L	U	191	106 / 106	EPA-906.0-M		=
Technetium-99	36.4	pCi/L		21.9	13.7 / 14.3	HASL 300, Tc-02-RC M		=
Thorium-230	-0.27	pCi/L	U	2.32	0.877 / 0.879	HASL 300, Th-01-RC M		=
Alpha activity	4.66	pCi/L	U	7.7	4.88 / 4.94	SW846-9310		=
Beta activity	29.4	pCi/L		10.1	8.56 / 9.81	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW384 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4809 **SAMPLE ID:** MW384SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0195	ug/L	U	0.0195	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.58	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	229	mg/L	*	10	/	EPA-160.1	J	=
Chemical Oxygen Demand (COD)	20	mg/L	UN	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	8.84	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW384 SIDE **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4809 **SAMPLE ID:** MW384SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	1.27	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW385 SIDE **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4810 **SAMPLE ID:** MW385SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.201	mg/L	J	0.4	/	SW846-9056A		=
Chloride	18.8	mg/L		0.4	/	SW846-9056A		=
Fluoride	0.162	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.323	mg/L		0.2	/	SW846-9056A		=
Sulfate	17.3	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	29.93	Inches/Hg			/	FS		X
Conductivity	431	µmhos/cm			/	FS		X
Depth to Water	42.41	ft			/	FS		X
Dissolved Oxygen	1.99	mg/L			/	FS		X
Eh (approx)	496.7	mV			/	FS		X
pH	6.23	Std Unit			/	FS		X
Temperature	63	deg F			/	FS		X
Turbidity	6	NTU			/	FS		X
Aluminum	0.0307	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.217	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0537	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	27.3	mg/L		0.2	/	SW846-6020B		=
Chromium	0.00316	mg/L	J	0.01	/	SW846-6020B		=
Cobalt	0.00071	mg/L	J	0.001	/	SW846-6020B		=
Copper	0.00193	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0516	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	11	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0104	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.000522	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.00222	mg/L		0.002	/	SW846-6020B		=
Potassium	1.6	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	36.3	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.000095	mg/L	J	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00491	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.208	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.000075	mg/L	J	0.0002	/	SW846-6020B		J
Radium-226	0.392	pCi/L	U	0.889	0.597 / 0.598	AN-1418		=
Strontium-90	-0.902	pCi/L	U	4.42	2.16 / 2.16	EPA-905.0-M		=
Tritium	57	pCi/L	U	192	107 / 108	EPA-906.0-M		=
Technetium-99	45.4	pCi/L		22	14 / 14.9	HASL 300, Tc-02-RC M		=
Thorium-230	0.99	pCi/L	U	4.95	2.73 / 2.74	HASL 300, Th-01-RC M		=
Alpha activity	1.15	pCi/L	U	6.73	3.32 / 3.32	SW846-9310		=
Beta activity	22.7	pCi/L		9.97	7.88 / 8.69	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW385 SIDE **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4810 **SAMPLE ID:** MW385SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	219	mg/L	*	10	/	EPA-160.1	J	J
Chemical Oxygen Demand (COD)	20	mg/L	UN	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	10	ug/L	U	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW385 SIDE **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4810 **SAMPLE ID:** MW385SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	1.04	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW386 SIDE **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4804 **SAMPLE ID:** MW386SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	9.09	mg/L		0.2	/	SW846-9056A		=
Fluoride	0.774	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.1	mg/L	U	0.1	/	SW846-9056A		=
Sulfate	33.9	mg/L		0.8	/	SW846-9056A		=
Barometric Pressure Reading	29.89	Inches/Hg			/	FS		X
Conductivity	576	µmhos/cm			/	FS		X
Depth to Water	20.28	ft			/	FS		X
Dissolved Oxygen	1.59	mg/L			/	FS		X
Eh (approx)	248.3	mV			/	FS		X
pH	6.54	Std Unit			/	FS		X
Temperature	64	deg F			/	FS		X
Turbidity	4.58	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.0022	mg/L	J	0.005	/	SW846-6020B		=
Barium	0.148	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.015	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	18.7	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.00946	mg/L		0.001	/	SW846-6020B		=
Copper	0.00122	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.57	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	7.89	mg/L		0.03	/	SW846-6020B		=
Manganese	0.799	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.00102	mg/L		0.001	/	SW846-6020B		=
Nickel	0.00209	mg/L		0.002	/	SW846-6020B		=
Potassium	0.273	mg/L	J	0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	109	mg/L		1.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.133	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.0914	pCi/L	U	0.649	0.337 / 0.337	AN-1418		=
Strontium-90	-1.29	pCi/L	U	4.74	2.42 / 2.42	EPA-905.0-M		=
Tritium	-51.8	pCi/L	U	194	88.2 / 88.2	EPA-906.0-M		=
Technetium-99	-3.66	pCi/L	U	22.4	12.9 / 12.9	HASL 300, Tc-02-RC M		=
Thorium-230	0.26	pCi/L	U	2.61	1.3 / 1.31	HASL 300, Th-01-RC M		=
Alpha activity	3.38	pCi/L	U	8.65	4.94 / 4.98	SW846-9310		=
Beta activity	9.46	pCi/L	U	10.4	6.67 / 6.85	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW386 SIDE **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4804 **SAMPLE ID:** MW386SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	360	mg/L	*	10	/	EPA-160.1	J	=
Chemical Oxygen Demand (COD)	11.4	mg/L	JN	20	/	EPA-410.4		J
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	123	ug/L		10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW386 SIDE **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4804 **SAMPLE ID:** MW386SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	6.29	mg/L		2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW387 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4815 **SAMPLE ID:** MW387SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.483	mg/L		0.4	/	SW846-9056A		=
Chloride	36.3	mg/L		1	/	SW846-9056A		=
Fluoride	0.841	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.01	mg/L		0.5	/	SW846-9056A		=
Sulfate	33.7	mg/L		0.8	/	SW846-9056A		=
Barometric Pressure Reading	29.97	Inches/Hg			/	FS		X
Conductivity	570	µmhos/cm			/	FS		X
Depth to Water	40.34	ft			/	FS		X
Dissolved Oxygen	4.46	mg/L			/	FS		X
Eh (approx)	486.3	mV			/	FS		X
pH	5.97	Std Unit			/	FS		X
Temperature	58.3	deg F			/	FS		X
Turbidity	6.97	NTU			/	FS		X
Aluminum	0.0304	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.114	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0354	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	39.7	mg/L		0.2	/	SW846-6020B		=
Chromium	0.0059	mg/L	J	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00238	mg/L		0.002	/	SW846-6020B		=
Iron	0.0764	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	16.7	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0046	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	1.84	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	55.9	mg/L		0.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.0066	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.118	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.00606	mg/L	J	0.01	/	SW846-6020B		J
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.163	pCi/L	U	0.481	0.288 / 0.289	AN-1418		=
Strontium-90	3.18	pCi/L	U	6.8	4.01 / 4.04	EPA-905.0-M		=
Tritium	-41.7	pCi/L	U	192	89.7 / 89.7	EPA-906.0-M		=
Technetium-99	147	pCi/L		22	16.4 / 23.3	HASL 300, Tc-02-RC M		=
Thorium-230	0.393	pCi/L	U	3.19	1.63 / 1.63	HASL 300, Th-01-RC M		=
Alpha activity	-1.81	pCi/L	U	7.56	2.48 / 2.49	SW846-9310		=
Beta activity	87.4	pCi/L		9.43	12.5 / 18.8	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW387 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4815 **SAMPLE ID:** MW387SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.4	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	308	mg/L	*	10	/	EPA-160.1	J	=
Chemical Oxygen Demand (COD)	20	mg/L	UN	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	10	ug/L	U	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW387 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4815 **SAMPLE ID:** MW387SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	1.4	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW388 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4816 **SAMPLE ID:** MW388SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Bromide	0.8	mg/L	U	0.8	/	SW846-9056A		=
Chloride	36.1	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.173	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.02	mg/L		0.4	/	SW846-9056A		=
Sulfate	16.9	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	29.97	Inches/Hg			/	FS		X
Conductivity	439	µmhos/cm			/	FS		X
Depth to Water	40.32	ft			/	FS		X
Dissolved Oxygen	5.93	mg/L			/	FS		X
Eh (approx)	525.5	mV			/	FS		X
pH	5.94	Std Unit			/	FS		X
Temperature	59.4	deg F			/	FS		X
Turbidity	4.77	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.191	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0219	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	24	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00188	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0351	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	10.7	mg/L		0.03	/	SW846-6020B		=
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	1.71	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	43.6	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00462	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.192	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.378	pCi/L	U	0.431	0.339 / 0.341	AN-1418		=
Strontium-90	0.932	pCi/L	U	5.57	3.02 / 3.02	EPA-905.0-M		=
Tritium	47.4	pCi/L	U	193	106 / 107	EPA-906.0-M		=
Technetium-99	23.1	pCi/L		21.8	13.3 / 13.6	HASL 300, Tc-02-RC M		=
Thorium-230	1.6	pCi/L	U	2.79	1.96 / 1.99	HASL 300, Th-01-RC M		=
Alpha activity	4.81	pCi/L	U	6.19	4.31 / 4.38	SW846-9310		=
Beta activity	6.91	pCi/L	U	11.2	6.78 / 6.88	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW388 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4816 **SAMPLE ID:** MW388SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	211	mg/L	*	10	/	EPA-160.1	J	=
Chemical Oxygen Demand (COD)	25	mg/L	N	20	/	EPA-410.4		J
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	10	ug/L	U	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW388 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4816 **SAMPLE ID:** MW388SG2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	1.04	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW391 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4805 **SAMPLE ID:** MW391SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.487	mg/L		0.4	/	SW846-9056A		=
Chloride	39.2	mg/L		1	/	SW846-9056A		=
Fluoride	0.147	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.06	mg/L		0.2	/	SW846-9056A		=
Sulfate	12.1	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.15	Inches/Hg			/	FS		X
Conductivity	334	µmhos/cm			/	FS		X
Depth to Water	43.75	ft			/	FS		X
Dissolved Oxygen	5.84	mg/L			/	FS		X
Eh (approx)	481.9	mV			/	FS		X
pH	5.84	Std Unit			/	FS		X
Temperature	52.4	deg F			/	FS		X
Turbidity	6.82	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.213	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0255	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	24.9	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00358	mg/L		0.002	/	SW846-6020B		=
Iron	0.0764	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	10.6	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00104	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.000621	mg/L	J	0.002	/	SW846-6020B		=
Potassium	1.49	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	33.7	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.0157	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.22	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.441	pCi/L	U	0.632	0.458 / 0.459	AN-1418		=
Strontium-90	-0.315	pCi/L	U	6.15	3.29 / 3.29	EPA-905.0-M		=
Tritium	47.2	pCi/L	U	129	72.8 / 73.3	EPA-906.0-M		=
Technetium-99	9.52	pCi/L	U	14.6	8.81 / 8.88	HASL 300, Tc-02-RC M		=
Thorium-230	1.01	pCi/L	U	2.27	1.43 / 1.44	HASL 300, Th-01-RC M		=
Alpha activity	-2.29	pCi/L	U	8.53	3.06 / 3.06	SW846-9310		=
Beta activity	2.84	pCi/L	U	9.44	5.36 / 5.38	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW391 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4805 **SAMPLE ID:** MW391SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0192	ug/L	U	0.0192	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	2.06	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.42	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	196	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	9.54	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW391 DOWN **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4805 **SAMPLE ID:** MW391SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.671	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW392 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4806 **SAMPLE ID:** MW392SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.525	mg/L		0.4	/	SW846-9056A		=
Chloride	43.5	mg/L		1	/	SW846-9056A		=
Fluoride	0.175	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.665	mg/L		0.2	/	SW846-9056A		=
Sulfate	7.52	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.16	Inches/Hg			/	FS		X
Conductivity	306	µmhos/cm			/	FS		X
Depth to Water	42.92	ft			/	FS		X
Dissolved Oxygen	2.83	mg/L			/	FS		X
Eh (approx)	337.2	mV			/	FS		X
pH	6.01	Std Unit			/	FS		X
Temperature	57.7	deg F			/	FS		X
Turbidity	0	NTU			/	FS		X
Aluminum	0.0195	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.236	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0266	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	24	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00168	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0409	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	10.7	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0623	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.000203	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.00115	mg/L	J	0.002	/	SW846-6020B		=
Potassium	2.07	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	25.1	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00664	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.237	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.202	pCi/L	U	0.584	0.36 / 0.36	AN-1418		=
Strontium-90	-1.36	pCi/L	U	3.98	1.68 / 1.68	EPA-905.0-M		=
Tritium	12.1	pCi/L	U	129	63.6 / 63.7	EPA-906.0-M		=
Technetium-99	-0.534	pCi/L	U	15	8.31 / 8.31	HASL 300, Tc-02-RC M		=
Thorium-230	0.714	pCi/L	U	2.79	1.56 / 1.57	HASL 300, Th-01-RC M		=
Alpha activity	0.934	pCi/L	U	8.86	4.45 / 4.45	SW846-9310		=
Beta activity	5.38	pCi/L	U	8.99	5.46 / 5.53	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW392 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4806 **SAMPLE ID:** MW392SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	0.37	ug/L	J	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	2.06	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1.58	ug/L		1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	167	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	5.16	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW392 DOWN **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4806 **SAMPLE ID:** MW392SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.572	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW393 DOWN **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4807 **SAMPLE ID:** MW393SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	8.49	mg/L		0.2	/	SW846-9056A		=
Fluoride	0.169	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.1	mg/L	U	0.1	/	SW846-9056A		=
Sulfate	21.5	mg/L		0.8	/	SW846-9056A		=
Barometric Pressure Reading	30.16	Inches/Hg			/	FS		X
Conductivity	390	µmhos/cm			/	FS		X
Depth to Water	27.98	ft			/	FS		X
Dissolved Oxygen	2.02	mg/L			/	FS		X
Eh (approx)	235.4	mV			/	FS		X
pH	6.17	Std Unit			/	FS		X
Temperature	55.5	deg F			/	FS		X
Turbidity	5.13	NTU			/	FS		X
Aluminum	0.0418	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.00308	mg/L	J	0.005	/	SW846-6020B		=
Barium	0.133	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.019	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	15.9	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00201	mg/L		0.002	/	SW846-6020B		=
Iron	2.31	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	4.19	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0678	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.000371	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	0.46	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	81.2	mg/L		1.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00798	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0837	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.142	pCi/L	U	0.552	0.322 / 0.322	AN-1418		=
Strontium-90	1.15	pCi/L	U	7.37	3.98 / 3.99	EPA-905.0-M		=
Tritium	66.8	pCi/L	U	176	101 / 102	EPA-906.0-M		=
Technetium-99	-8.36	pCi/L	U	15.3	7.91 / 7.91	HASL 300, Tc-02-RC M		UJ
Thorium-230	1.25	pCi/L	U	2.3	1.49 / 1.51	HASL 300, Th-01-RC M		=
Alpha activity	-0.0195	pCi/L	U	8.14	3.56 / 3.56	SW846-9310		=
Beta activity	-0.895	pCi/L	U	10.9	5.63 / 5.63	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW393 DOWN **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4807 **SAMPLE ID:** MW393SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.96	ug/L	J	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	277	mg/L		10	/	EPA-160.1		J
Chemical Oxygen Demand (COD)	12.9	mg/L	J	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	15.2	ug/L		10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW393 DOWN **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4807 **SAMPLE ID:** MW393SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	2.19	mg/L		2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW394 UP **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4802 **SAMPLE ID:** MW394SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.544	mg/L	J	0.8	/	SW846-9056A		=
Chloride	43.4	mg/L		2	/	SW846-9056A		=
Fluoride	0.122	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.2	mg/L		0.4	/	SW846-9056A		=
Sulfate	11.9	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.26	Inches/Hg			/	FS		X
Conductivity	414	µmhos/cm			/	FS		X
Depth to Water	55.38	ft			/	FS		X
Dissolved Oxygen	6.06	mg/L			/	FS		X
Eh (approx)	496.7	mV			/	FS		X
pH	5.79	Std Unit			/	FS		X
Temperature	53.7	deg F			/	FS		X
Turbidity	5	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.256	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0234	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	27.9	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00136	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	12	mg/L		0.03	/	SW846-6020B		=
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00458	mg/L		0.002	/	SW846-6020B		=
Potassium	1.34	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	35.4	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00466	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.262	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.181	pCi/L	U	0.603	0.356 / 0.357	AN-1418		=
Strontium-90	-1.87	pCi/L	U	5.69	2.78 / 2.78	EPA-905.0-M		=
Tritium	-8.64	pCi/L	U	173	81.9 / 81.9	EPA-906.0-M		=
Technetium-99	10.7	pCi/L	U	16.6	9.99 / 10.1	HASL 300, Tc-02-RC M		=
Thorium-230	2.32	pCi/L	U	5.07	3.68 / 3.75	HASL 300, Th-01-RC M		=
Alpha activity	0.233	pCi/L	U	6.13	2.63 / 2.64	SW846-9310		=
Beta activity	7.11	pCi/L	U	9.76	6.07 / 6.18	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW394 UP **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4802 **SAMPLE ID:** MW394SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		UJ
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		UJ
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		UJ
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	4.59	ug/L		1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		UJ
Dissolved Solids	198	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	UN	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	4.58	ug/L	J	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW394 UP **RGA Type:** URGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4802 **SAMPLE ID:** MW394SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.677	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW395 UP **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4801 **SAMPLE ID:** MW395SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.55	mg/L	J	0.8	/	SW846-9056A		=
Chloride	43	mg/L		2	/	SW846-9056A		=
Fluoride	0.112	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.28	mg/L		0.4	/	SW846-9056A		=
Sulfate	11.1	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.3	Inches/Hg			/	FS		X
Conductivity	393	µmhos/cm			/	FS		X
Depth to Water	56.06	ft			/	FS		X
Dissolved Oxygen	5.46	mg/L			/	FS		X
Eh (approx)	541.6	mV			/	FS		X
pH	5.74	Std Unit			/	FS		X
Temperature	57.1	deg F			/	FS		X
Turbidity	4.46	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.259	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0231	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	27.5	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00108	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0353	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	11.9	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00113	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.000651	mg/L	J	0.002	/	SW846-6020B		=
Potassium	1.6	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	32.2	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.258	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.35	pCi/L	U	0.428	0.377 / 0.377	AN-1418		=
Strontium-90	-0.126	pCi/L	U	5.18	2.75 / 2.75	EPA-905.0-M		=
Tritium	47.5	pCi/L	U	173	94.9 / 95.4	EPA-906.0-M		=
Technetium-99	13.8	pCi/L	U	15.6	9.66 / 9.79	HASL 300, Tc-02-RC M		=
Thorium-230	5.09	pCi/L	U	6.94	6.12 / 6.38	HASL 300, Th-01-RC M		=
Alpha activity	-0.795	pCi/L	U	6.56	2.37 / 2.38	SW846-9310		=
Beta activity	-0.345	pCi/L	U	10.2	5.32 / 5.32	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW395 UP **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4801 **SAMPLE ID:** MW395SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		UJ
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		UJ
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		UJ
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	4.64	ug/L		1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		UJ
Dissolved Solids	200	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	9.14	mg/L	JN	20	/	EPA-410.4	J	=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		R
Total Organic Halides (TOX)	10	ug/L	U	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW395 UP **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4801 **SAMPLE ID:** MW395SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.683	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW396 UP **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4803 **SAMPLE ID:** MW396SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.31	mg/L	J	0.5	/	EPA-300.0		=
Bromide	0.75	mg/L	J	0.8	/	SW846-9056A		=
Chloride	49.2	mg/L		2	/	SW846-9056A		=
Fluoride	0.571	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.1	mg/L	U	0.1	/	SW846-9056A		=
Sulfate	29.5	mg/L		4	/	SW846-9056A		=
Barometric Pressure Reading	30.3	Inches/Hg			/	FS		X
Conductivity	656	µmhos/cm			/	FS		X
Depth to Water	11.38	ft			/	FS		X
Dissolved Oxygen	2.4	mg/L			/	FS		X
Eh (approx)	539.9	mV			/	FS		X
pH	6.21	Std Unit			/	FS		X
Temperature	58.4	deg F			/	FS		X
Turbidity	4.87	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.37	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.00923	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	31.4	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00136	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0451	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	13.9	mg/L		0.03	/	SW846-6020B		=
Manganese	0.168	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.000322	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.00077	mg/L	J	0.002	/	SW846-6020B		=
Potassium	0.769	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	108	mg/L		1.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00342	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.361	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.000077	mg/L	J	0.0002	/	SW846-6020B		J
Radium-226	0.327	pCi/L	U	0.533	0.397 / 0.398	AN-1418		=
Strontium-90	-0.626	pCi/L	U	3.66	1.79 / 1.79	EPA-905.0-M		=
Tritium	37.1	pCi/L	U	173	92.6 / 92.9	EPA-906.0-M		=
Technetium-99	10.2	pCi/L	U	15.9	9.6 / 9.67	HASL 300, Tc-02-RC M		=
Thorium-230	-1.06	pCi/L	U	6.53	2.04 / 2.06	HASL 300, Th-01-RC M		=
Alpha activity	3.89	pCi/L	U	8.68	5.1 / 5.14	SW846-9310		=
Beta activity	3.78	pCi/L	U	10.7	6.14 / 6.18	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW396 UP **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4803 **SAMPLE ID:** MW396SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0192	ug/L	U	0.0192	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		UJ
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		UJ
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		UJ
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		UJ
Dissolved Solids	393	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	UN	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	37.4	ug/L		10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW396 UP **RGA Type:** UCRS **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4803 **SAMPLE ID:** MW396SG2-26 **Sample Type:** REG **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	3.47	mg/L		2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW397 UP **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4817 **SAMPLE ID:** MW397SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0	U,J	=
Bromide	0.366	mg/L		0.2	/	SW846-9056A		=
Chloride	33	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.129	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.08	mg/L		0.4	/	SW846-9056A		=
Sulfate	11.5	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.12	Inches/Hg			/	FS		X
Conductivity	278	µmhos/cm			/	FS		X
Depth to Water	63.64	ft			/	FS		X
Dissolved Oxygen	6.42	mg/L			/	FS		X
Eh (approx)	369.8	mV			/	FS		X
pH	5.97	Std Unit			/	FS		X
Temperature	62.1	deg F			/	FS		X
Turbidity	160.37	NTU			/	FS		X
Aluminum	0.0841	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.133	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0101	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	18.3	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00252	mg/L		0.002	/	SW846-6020B		=
Iron	0.168	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	7.68	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00315	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.000644	mg/L	J	0.002	/	SW846-6020B		=
Potassium	1.76	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	33.3	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00749	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.136	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
Radium-226	0.0755	pCi/L	U	0.786	0.41 / 0.41	AN-1418		=
Strontium-90	-1.83	pCi/L	U	6.56	3.2 / 3.2	EPA-905.0-M		=
Tritium	-44.6	pCi/L	U	174	77.6 / 77.7	EPA-906.0-M		=
Technetium-99	5.32	pCi/L	U	15	8.76 / 8.78	HASL 300, Tc-02-RC M		=
Thorium-230	0.487	pCi/L	U	2.07	1.14 / 1.15	HASL 300, Th-01-RC M		=
Alpha activity	-1.36	pCi/L	U	9.14	3.66 / 3.66	SW846-9310		=
Beta activity	13.2	pCi/L		10.6	7.24 / 7.57	SW846-9310		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW397 UP **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4817 **SAMPLE ID:** MW397SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0188	ug/L	U	0.0188	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	192	mg/L		10	/	EPA-160.1		J
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.2	mg/L	UN	0.2	/	SW846-9012B		UJ
Total Organic Halides (TOX)	10	ug/L	U	10	/	SW846-9020B		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW397 UP **RGA Type:** LRGA **Period:** 1st Quarter 2026

AKGWA Well Tag #: 8004-4817 **SAMPLE ID:** MW397SG2-26 **Sample Type:** REG **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Total Organic Carbon (TOC)	0.581	mg/L	J	2	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** FB1SG2-26 **Sample Type:** FB **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.004	mg/L	U	0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.015	mg/L	U	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	0.2	mg/L	U	0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.002	mg/L	U	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	0.03	mg/L	U	0.03	/	SW846-6020B		=
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	0.3	mg/L	U	0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	0.25	mg/L	U	0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Radium-226	0.176	pCi/L	U	0.521	0.312 / 0.313	AN-1418		=
Strontium-90	-2.91	pCi/L	U	7.49	3.27 / 3.27	EPA-905.0-M		=
Tritium	18.5	pCi/L	U	192	101 / 101	EPA-906.0-M		=
Technetium-99	6.97	pCi/L	U	22.9	13.5 / 13.5	HASL 300, Tc-02-RC M		=
Thorium-230	1.54	pCi/L	U	5.8	3.41 / 3.44	HASL 300, Th-01-RC M		=
Alpha activity	5.3	pCi/L	U	6.76	4.61 / 4.69	SW846-9310		=
Beta activity	7.11	pCi/L	U	11.6	7.03 / 7.13	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0192	ug/L	U	0.0192	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** FB1SG2-26 **Sample Type:** FB **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1.98	ug/L		1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** RI1SG2-26 **Sample Type:** RI **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	UN	0.5	/	EPA-300.0		UJ
Aluminum	0.0259	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.004	mg/L	U	0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.015	mg/L	U	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	0.2	mg/L	U	0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.002	mg/L	U	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	0.03	mg/L	U	0.03	/	SW846-6020B		=
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	0.3	mg/L	U	0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	0.25	mg/L	U	0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Radium-226	0.166	pCi/L	U	0.63	0.357 / 0.357	AN-1418		=
Strontium-90	-4.03	pCi/L	U	7.56	3.2 / 3.2	EPA-905.0-M		UJ
Tritium	68.8	pCi/L	U	240	134 / 135	EPA-906.0-M		=
Technetium-99	3.7	pCi/L	U	22.6	13.2 / 13.2	HASL 300, Tc-02-RC M		=
Thorium-230	0.767	pCi/L	U	4.43	2.35 / 2.36	HASL 300, Th-01-RC M		=
Alpha activity	3.93	pCi/L	U	6.51	4.12 / 4.17	SW846-9310		=
Beta activity	2.39	pCi/L	U	8.69	4.9 / 4.92	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0188	ug/L	U	0.0188	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** RI1SG2-26 **Sample Type:** RI **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	2.29	ug/L		1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	0.35	ug/L	J	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** TB1SG2-26 **Sample Type:** TB **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5.92	ug/L		5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	2.73	ug/L	Y1	1	/	SW846-8260D		J
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** TB2SG2-26 **Sample Type:** TB **Date Collected:** 2/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0192	ug/L	U	0.0192	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	JY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	2.24	ug/L	Y1	1	/	SW846-8260D		J
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	0.48	ug/L	J	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	JY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	JY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** TB3SG2-26 **Sample Type:** TB **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		UJ
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		UJ
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	2.32	ug/L		1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	0.34	ug/L	J	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 1st Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** TB4SG2-26 **Sample Type:** TB **Date Collected:** 2/11/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		UJ
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1.99	ug/L		1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		UJ
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		UJ
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		UJ

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

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

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

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

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

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ATTACHMENT C1

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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GEL LABORATORIES LLC

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

Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW220SG2-26
Sample ID: 763474001
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	-0.195	+/-0.351	0.897	+/-0.352	5.00	pCi/L			JD3	02/12/26	1850	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	1.79	+/-1.60	2.00	+/-1.63	50.0	pCi/L			SB3	02/11/26	1847	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.108	+/-3.51	6.41	+/-3.51	8.00	pCi/L			CH7	02/12/26	1513	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	0.0942	+/-2.87	6.63	+/-2.87	15.0	pCi/L			CH7	02/12/26	1359	2943598	4
Beta		14.8	+/-6.67	9.24	+/-7.09	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	-59.2	+/-112	241	+/-112	300	pCi/L			IT1	02/16/26	1545	2946306	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	10.6	+/-8.87	14.6	+/-8.95	25.0	pCi/L			BB3	02/15/26	0809	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	93.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	71	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	78.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	98	(30%-110%)

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW220SG2-26
Sample ID: 763474001

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW221SG2-26
Sample ID: 763474003
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	-0.148	+/-0.186	0.623	+/-0.187	5.00	pCi/L			JD3	02/12/26	1850	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.141	+/-1.18	2.76	+/-1.18	50.0	pCi/L			SB3	02/11/26	1847	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.246	+/-2.51	4.75	+/-2.51	8.00	pCi/L			CH7	02/12/26	1738	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-0.0292	+/-3.54	8.08	+/-3.54	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta	U	6.51	+/-5.97	9.68	+/-6.07	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	109	+/-86.6	129	+/-89.1	300	pCi/L			IT1	02/12/26	2103	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	3.53	+/-8.55	14.9	+/-8.56	25.0	pCi/L			BB3	02/15/26	0825	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	93.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	55.3	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	93.6	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	96.7	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW221SG2-26
Sample ID: 763474003

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer Recovery		**Test**						**Batch ID**		**Recovery%**	**Acceptable Limits**			

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW222SG2-26
Sample ID: 763474005
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.256	+/-0.448	0.757	+/-0.449	5.00	pCi/L			JD3	02/12/26	1900	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.663	+/-0.770	2.38	+/-0.771	50.0	pCi/L			SB3	02/11/26	1847	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.93	+/-2.04	4.47	+/-2.04	8.00	pCi/L			CH7	02/12/26	1514	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	1.22	+/-4.20	8.30	+/-4.20	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta	U	5.21	+/-5.49	9.10	+/-5.56	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	-18.7	+/-55.2	129	+/-55.2	300	pCi/L			IT1	02/12/26	2125	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	4.34	+/-8.58	14.8	+/-8.60	25.0	pCi/L			BB3	02/15/26	0842	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	89.6	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	73.8	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	87.2	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	97	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW222SG2-26
Sample ID: 763474005

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW223SG2-26
Sample ID: 763474007
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.266	+/-0.370	0.552	+/-0.371	5.00	pCi/L			JD3	02/12/26	1859	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.521	+/-1.37	2.49	+/-1.37	50.0	pCi/L			SB3	02/11/26	1847	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-2.07	+/-3.44	6.73	+/-3.44	8.00	pCi/L			CH7	02/12/26	1514	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	1.00	+/-3.44	7.05	+/-3.44	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta	U	5.21	+/-5.50	9.12	+/-5.57	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	41.0	+/-71.3	129	+/-71.7	300	pCi/L			IT1	02/12/26	2146	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	2.27	+/-8.23	14.5	+/-8.23	25.0	pCi/L			BB3	02/15/26	0858	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	98.7	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	59.4	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	83	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	99.4	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW223SG2-26
Sample ID: 763474007

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Address : 5600 Hobbs Road

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW224SG2-26
Sample ID: 763474009
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.269	+/-0.436	0.717	+/-0.436	5.00	pCi/L			JD3	02/12/26	1850	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.609	+/-1.40	2.50	+/-1.41	50.0	pCi/L			SB3	02/11/26	1847	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.07	+/-1.60	3.56	+/-1.60	8.00	pCi/L			CH7	02/12/26	1514	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	0.376	+/-3.49	7.69	+/-3.49	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta	U	0.839	+/-5.43	10.1	+/-5.43	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	43.1	+/-71.6	128	+/-72.1	300	pCi/L			IT1	02/12/26	2208	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	7.95	+/-9.04	15.2	+/-9.08	25.0	pCi/L			BB3	02/15/26	0915	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	89.9	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	63.5	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	89.4	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	95.5	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW224SG2-26
Sample ID: 763474009

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Address : 5600 Hobbs Road

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW391SG2-26
Sample ID: 763474011
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.441	+/-0.458	0.632	+/-0.459	5.00	pCi/L			JD3	02/12/26	1850	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	1.01	+/-1.43	2.27	+/-1.44	50.0	pCi/L			SB3	02/11/26	1847	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.315	+/-3.29	6.15	+/-3.29	8.00	pCi/L			CH7	02/12/26	1514	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-2.29	+/-3.06	8.53	+/-3.06	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta	U	2.84	+/-5.36	9.44	+/-5.38	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	47.2	+/-72.8	129	+/-73.3	300	pCi/L			IT1	02/12/26	2230	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	9.52	+/-8.81	14.6	+/-8.88	25.0	pCi/L			BB3	02/15/26	0932	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	96.6	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	71.3	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	87.2	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	97.3	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW391SG2-26
Sample ID: 763474011

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW392SG2-26
Sample ID: 763474013
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.202	+/-0.360	0.584	+/-0.360	5.00	pCi/L			JD3	02/12/26	1850	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.714	+/-1.56	2.79	+/-1.57	50.0	pCi/L			SB3	02/11/26	1847	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.36	+/-1.68	3.98	+/-1.68	8.00	pCi/L			CH7	02/12/26	1514	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	0.934	+/-4.45	8.86	+/-4.45	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta	U	5.38	+/-5.46	8.99	+/-5.53	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	12.1	+/-63.6	129	+/-63.7	300	pCi/L			IT1	02/12/26	2251	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	-0.534	+/-8.31	15.0	+/-8.31	25.0	pCi/L			BB3	02/15/26	0948	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	93.1	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	63.7	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	74.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	95.2	(30%-110%)

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW392SG2-26
Sample ID: 763474013

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW393SG2-26
Sample ID: 763474015
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.142	+/-0.322	0.552	+/-0.322	5.00	pCi/L			JD3	02/12/26	1850	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	1.25	+/-1.49	2.30	+/-1.51	50.0	pCi/L			SB3	02/12/26	0817	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	1.15	+/-3.98	7.37	+/-3.99	8.00	pCi/L			CH7	02/12/26	1514	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-0.0195	+/-3.56	8.14	+/-3.56	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta	U	-0.895	+/-5.63	10.9	+/-5.63	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	66.8	+/-101	176	+/-102	300	pCi/L			IT1	02/14/26	2317	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	-8.36	+/-7.91	15.3	+/-7.91	25.0	pCi/L			BB3	02/15/26	1005	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	95.4	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	72	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	44.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	93.2	(30%-110%)

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW393SG2-26
Sample ID: 763474015

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW397SG2-26
Sample ID: 763474017
Matrix: WG
Collect Date: 09-FEB-26
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.0755	+/-0.410	0.786	+/-0.410	5.00	pCi/L			JD3	02/14/26	0913	2943370	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.487	+/-1.14	2.07	+/-1.15	50.0	pCi/L			SB3	02/12/26	0817	2943371	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.83	+/-3.20	6.56	+/-3.20	8.00	pCi/L			CH7	02/12/26	1514	2943595	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-1.36	+/-3.66	9.14	+/-3.66	15.0	pCi/L			CH7	02/12/26	1208	2943598	4
Beta		13.2	+/-7.24	10.6	+/-7.57	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	-44.6	+/-77.6	174	+/-77.7	300	pCi/L			IT1	02/14/26	2339	2943452	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	5.32	+/-8.76	15.0	+/-8.78	25.0	pCi/L			BB3	02/15/26	1021	2943347	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2943370	99	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2943371	69.4	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2943595	66	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2943347	95.3	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW397SG2-26
Sample ID: 763474017

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW220SG2-26	Project:	FRNP00715
Sample ID:	763474001	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 13:13		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00859	0.0191	ug/L	0.954	1	LL2	02/11/26	1708	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.707	0.330	2.00	mg/L		1	KB3	02/11/26	0420	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1209	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	6.48	3.33	10.0	ug/L		1	JW2	02/12/26	1342	2943777	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	0845	2944197	6
SW846 9056A Anions (5) "As Received"												
Bromide	J	0.200	0.0670	0.200	mg/L		1	CH6	02/10/26	1249	2943296	7
Fluoride		0.163	0.0330	0.100	mg/L		1					
Sulfate		16.4	0.133	0.400	mg/L		1					
Chloride		18.7	0.134	0.400	mg/L		2	CH6	02/10/26	1634	2943296	8
Nitrate-N		0.773	0.0660	0.200	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	02/12/26	0851	2943544	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1530	2943316	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.186	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		20.7	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00322	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW220SG2-26 Project: FRNP00715
Sample ID: 763474001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper		0.00272	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		8.73	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00150	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.00564	0.000600	0.00200	mg/L	1.00	1					
Potassium		4.68	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00164	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		37.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00582	0.00330	0.0200	mg/L	1.00	1					
Boron	J	0.00993	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1116	2943316	11
Molybdenum	J	0.000606	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		188	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1359	2944797	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	UY1	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					

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Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW220SG2-26 Project: FRNP00715
Sample ID: 763474001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	1.99	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW220SG2-26	Project:	FRNP00715
Sample ID:	763474001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/11/26	1530	2943511
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/11/26	1040	2943543
SW846 3005A	ICP-MS 3005A PREP	MM7	02/11/26	0920	2943315
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	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 Compounds Liquid "As Received"	6.33 ug/L	6.82	93	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.9 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	55.5 ug/L	50.0	111	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.2 ug/L	50.0	100	(89%-112%)

Notes:

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW220SG2-26	Project:	FRNP00715
Sample ID:	763474001	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW220SG2-26	Project:	FRNP00715
Sample ID:	763474002	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 13:13		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.184	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1800	2943519	1
Chromium	J	0.00320	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW221SG2-26	Project:	FRNP00715
Sample ID:	763474003	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 08:44		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00858	0.0191	ug/L	0.953	1	LL2	02/11/26	1743	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.695	0.330	2.00	mg/L		1	KB3	02/11/26	0451	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1210	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	7.86	3.33	10.0	ug/L		1	JW2	02/12/26	1431	2943777	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	0858	2944197	6
SW846 9056A Anions (5) "As Received"												
Bromide	J	0.171	0.0670	0.200	mg/L		1	CH6	02/10/26	1306	2943296	7
Fluoride		0.198	0.0330	0.100	mg/L		1					
Sulfate		14.0	0.133	0.400	mg/L		1					
Chloride		33.3	0.268	0.800	mg/L		4	CH6	02/10/26	1652	2943296	8
Nitrate-N		0.968	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/12/26	0852	2943544	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1533	2943316	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.196	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		20.8	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00409	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW221SG2-26 Project: FRNP00715
Sample ID: 763474003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper		0.00412	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		9.27	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.00717	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.61	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		47.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0104	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0185	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1118	2943316	11
Molybdenum		0.00183	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		214	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1424	2944797	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	UY1	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					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW221SG2-26 Project: FRNP00715
Sample ID: 763474003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	2.07	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW221SG2-26	Project:	FRNP00715
Sample ID:	763474003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/11/26	1530	2943511
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/11/26	1040	2943543
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 3005A	ICP-MS 3005A PREP	MM7	02/11/26	0920	2943315

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	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 Compounds Liquid "As Received"	5.62 ug/L	6.81	83	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.6 ug/L	50.0	103	(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"	50.5 ug/L	50.0	101	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW221SG2-26	Project:	FRNP00715
Sample ID:	763474003	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW221SG2-26	Project:	FRNP00715
Sample ID:	763474004	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 08:44		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.197	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1803	2943519	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW222SG2-26	Project:	FRNP00715
Sample ID:	763474005	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 10:21		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00860	0.0191	ug/L	0.956	1	LL2	02/11/26	1817	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.617	0.330	2.00	mg/L		1	KB3	02/11/26	0523	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1211	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	7.02	3.33	10.0	ug/L		1	JW2	02/12/26	1502	2943777	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	0910	2944197	6
SW846 9056A Anions (5) "As Received"												
Bromide		0.359	0.0670	0.200	mg/L		1	CH6	02/10/26	1323	2943296	7
Fluoride		0.218	0.0330	0.100	mg/L		1					
Sulfate		10.6	0.133	0.400	mg/L		1					
Chloride		28.9	0.268	0.800	mg/L		4	CH6	02/10/26	1709	2943296	8
Nitrate-N		1.08	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/12/26	0854	2943544	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum		0.0732	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1537	2943316	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.226	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.8	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00361	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000986	0.000300	0.00100	mg/L	1.00	1					

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW222SG2-26 Project: FRNP00715
Sample ID: 763474005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper	J	0.00195	0.000300	0.00200	mg/L	1.00	1					
Iron		0.106	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		7.09	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00566	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.0193	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.456	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		44.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00445	0.00330	0.0200	mg/L	1.00	1					
Boron	J	0.00835	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1119	2943316	11
Molybdenum		0.00191	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		192	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1450	2944797	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	UY1	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					

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW222SG2-26 Project: FRNP00715
Sample ID: 763474005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	2.14	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW222SG2-26	Project:	FRNP00715
Sample ID:	763474005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	AXH3	02/18/26	1202	2944377
SW846 3005A	ICP-MS 3005A PREP	MM7	02/11/26	0920	2943315
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/11/26	1040	2943543
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	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 Compounds Liquid "As Received"	6.37 ug/L	6.83	93	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.4 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.3 ug/L	50.0	101	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW222SG2-26	Project:	FRNP00715
Sample ID:	763474005	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW222SG2-26	Project:	FRNP00715
Sample ID:	763474006	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 10:21		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.223	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1806	2943519	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW223SG2-26	Project:	FRNP00715
Sample ID:	763474007	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 09:34		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00858	0.0191	ug/L	0.953	1	LL2	02/11/26	1852	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.658	0.330	2.00	mg/L		1	KB3	02/11/26	0555	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1212	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.50	3.33	10.0	ug/L		1	JW2	02/12/26	1550	2943777	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	0923	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.232	0.0330	0.100	mg/L		1	CH6	02/10/26	1340	2943296	7
Sulfate		12.3	0.133	0.400	mg/L		1					
Bromide	J	0.404	0.268	0.800	mg/L		4	CH6	02/10/26	1726	2943296	8
Chloride		29.5	0.268	0.800	mg/L		4					
Nitrate-N		1.10	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/12/26	0932	2943544	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1540	2943316	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.228	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		21.1	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0502	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00151	0.000300	0.00100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW223SG2-26 Project: FRNP00715
Sample ID: 763474007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper		0.00419	0.000300	0.00200	mg/L	1.00	1					
Iron		0.307	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		8.78	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00980	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.450	0.000600	0.00200	mg/L	1.00	1					
Potassium		3.01	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		46.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00664	0.00330	0.0200	mg/L	1.00	1					
Boron	J	0.00765	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1124	2943316	11
Molybdenum		0.0103	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		201	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1515	2944797	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	UY1	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					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW223SG2-26 Project: FRNP00715
Sample ID: 763474007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	2.03	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW223SG2-26	Project:	FRNP00715
Sample ID:	763474007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/11/26	1530	2943511
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/11/26	1040	2943543
SW846 3005A	ICP-MS 3005A PREP	MM7	02/11/26	0920	2943315
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	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 Compounds Liquid "As Received"	11.4 ug/L	13.6	84	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.8 ug/L	50.0	104	(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"	51.1 ug/L	50.0	102	(89%-112%)

Notes:

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW223SG2-26	Project:	FRNP00715
Sample ID:	763474007	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

GEL LABORATORIES LLC

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW223SG2-26	Project:	FRNP00715
Sample ID:	763474008	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 09:34		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.222	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1809	2943519	1
Chromium	J	0.00887	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	ES3	02/12/26	0830	2943518
EPA 160	Laboratory Filtration	GF1	02/10/26	1525	2943458

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW224SG2-26	Project:	FRNP00715
Sample ID:	763474009	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 12:26		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00854	0.0190	ug/L	0.949	1	LL2	02/11/26	1926	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.787	0.330	2.00	mg/L		1	KB3	02/11/26	0627	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1213	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	9.06	3.33	10.0	ug/L		1	JW2	02/12/26	1217	2943777	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	0936	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.273	0.0330	0.100	mg/L		1	CH6	02/10/26	1358	2943296	7
Sulfate		12.1	0.133	0.400	mg/L		1					
Bromide	J	0.239	0.134	0.400	mg/L		2	CH6	02/10/26	1744	2943296	8
Chloride		15.1	0.134	0.400	mg/L		2					
Nitrate-N		0.987	0.0660	0.200	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	02/12/26	0933	2943544	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1549	2943316	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.185	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	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW224SG2-26 Project: FRNP00715
Sample ID: 763474009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper		0.00289	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		8.91	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00121	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.00479	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.849	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					
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	0.00561	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0159	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1126	2943316	11
Molybdenum	J	0.000512	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Sodium		59.0	0.400	1.25	mg/L	1.00	5	RM4	02/16/26	1145	2943316	12
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		251	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1540	2944797	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	UY1	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					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW224SG2-26 Project: FRNP00715
Sample ID: 763474009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	2.02	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW224SG2-26 Project: FRNP00715
Sample ID: 763474009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	AXH3	02/18/26	1202	2944377
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/11/26	1040	2943543
SW846 3005A	ICP-MS 3005A PREP	MM7	02/11/26	0920	2943315
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	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 Compounds Liquid "As Received"	5.76 ug/L	6.78	85	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.2 ug/L	50.0	96	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.6 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.9 ug/L	50.0	100	(89%-112%)

Notes:

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Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW224SG2-26	Project:	FRNP00715
Sample ID:	763474009	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW224SG2-26	Project:	FRNP00715
Sample ID:	763474010	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 12:26		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.190	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1819	2943519	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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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Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW391SG2-26	Project:	FRNP00715
Sample ID:	763474011	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 08:53		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0192	0.00866	0.0192	ug/L	0.962	1	LL2	02/11/26	2109	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.671	0.330	2.00	mg/L		1	KB3	02/11/26	0803	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1217	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	9.54	3.33	10.0	ug/L		1	JW2	02/12/26	1621	2943777	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1015	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.147	0.0330	0.100	mg/L		1	CH6	02/10/26	1450	2943296	7
Sulfate		12.1	0.133	0.400	mg/L		1					
Bromide		0.487	0.134	0.400	mg/L		2	CH6	02/10/26	1910	2943296	8
Nitrate-N		1.06	0.0660	0.200	mg/L		2					
Chloride		39.2	0.335	1.00	mg/L		5	CH6	02/10/26	2020	2943296	9
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/12/26	0940	2943544	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1605	2943316	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		0.213	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		24.9	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: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW391SG2-26 Project: FRNP00715
Sample ID: 763474011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper		0.00358	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0764	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.6	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00104	0.00100	0.00500	mg/L	1.00	1					
Nickel	J	0.000621	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.49	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		33.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0157	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0255	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1135	2943316	12
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		196	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1606	2944797	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	UY1	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					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW391SG2-26 Project: FRNP00715
Sample ID: 763474011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	2.06	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.420	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW391SG2-26 Project: FRNP00715
Sample ID: 763474011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	JM13	02/11/26	1040	2943543
SW846 3005A	ICP-MS 3005A PREP	MM7	02/11/26	0920	2943315
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511

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	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 Compounds Liquid "As Received"	4.21 ug/L	6.87	61	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.7 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW391SG2-26	Project:	FRNP00715
Sample ID:	763474011	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW391SG2-26	Project:	FRNP00715
Sample ID:	763474012	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 08:53		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.220	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1834	2943519	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW392SG2-26	Project:	FRNP00715
Sample ID:	763474013	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 10:34		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00857	0.0190	ug/L	0.952	1	LL2	02/11/26	2225	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.572	0.330	2.00	mg/L		1	KB3	02/11/26	0909	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1218	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	5.16	3.33	10.0	ug/L		1	JW2	02/18/26	1531	2946598	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1053	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.175	0.0330	0.100	mg/L		1	CH6	02/10/26	1542	2943296	7
Sulfate		7.52	0.133	0.400	mg/L		1					
Bromide		0.525	0.134	0.400	mg/L		2	CH6	02/10/26	1928	2943296	8
Nitrate-N		0.665	0.0660	0.200	mg/L		2					
Chloride		43.5	0.335	1.00	mg/L		5	CH6	02/10/26	2037	2943296	9
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/12/26	0941	2943544	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	J	0.0195	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1608	2943316	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		0.236	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		24.0	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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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW392SG2-26 Project: FRNP00715
Sample ID: 763474013 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper	J	0.00168	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0409	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0623	0.00100	0.00500	mg/L	1.00	1					
Nickel	J	0.00115	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.07	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		25.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00664	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0266	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1136	2943316	12
Molybdenum	J	0.000203	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		167	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1631	2944797	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	UY1	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					

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Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW392SG2-26 Project: FRNP00715
Sample ID: 763474013 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	2.06	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene		1.58	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	J	0.370	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW392SG2-26	Project:	FRNP00715
Sample ID:	763474013	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	JM13	02/11/26	1040	2943543
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511
SW846 3005A	ICP-MS 3005A PREP	MM7	02/11/26	0920	2943315

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	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 Compounds Liquid "As Received"	6.25 ug/L	6.80	92	(59%-142%)
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"	54.6 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(89%-112%)

Notes:

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW392SG2-26	Project:	FRNP00715
Sample ID:	763474013	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW392SG2-26	Project:	FRNP00715
Sample ID:	763474014	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 10:34		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.237	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1838	2943519	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW393SG2-26	Project:	FRNP00715
Sample ID:	763474015	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 09:38		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00858	0.0191	ug/L	0.953	1	LL2	02/11/26	2259	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.19	0.330	2.00	mg/L		1	KB3	02/11/26	0941	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1225	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		15.2	3.33	10.0	ug/L		1	JW2	02/18/26	1630	2946598	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1106	2944197	6
SW846 9056A Anions (5) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	02/10/26	1559	2943296	7
Chloride		8.49	0.0670	0.200	mg/L		1					
Fluoride		0.169	0.0330	0.100	mg/L		1					
Nitrate-N	U	0.100	0.0330	0.100	mg/L		1					
Sulfate		21.5	0.266	0.800	mg/L		2	CH6	02/10/26	2003	2943296	8
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/12/26	0943	2943544	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	J	0.0418	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1611	2943316	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00308	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		15.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW393SG2-26 Project: FRNP00715
Sample ID: 763474015 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper		0.00201	0.000300	0.00200	mg/L	1.00	1					
Iron		2.31	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		4.19	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0678	0.00100	0.00500	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.460	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					
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	0.00798	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0190	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1138	2943316	11
Molybdenum	J	0.000371	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Sodium		81.2	0.400	1.25	mg/L	1.00	5	RM4	02/16/26	1154	2943316	12
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		277	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	J	12.9	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/12/26	1656	2944797	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	UY1	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					

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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW393SG2-26 Project: FRNP00715
Sample ID: 763474015 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	J	1.96	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW393SG2-26	Project:	FRNP00715
Sample ID:	763474015	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	MM7	02/11/26	0920	2943315
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/11/26	1040	2943543

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	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 Compounds Liquid "As Received"	6.40 ug/L	6.81	94	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.1 ug/L	50.0	98	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.7 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.0 ug/L	50.0	102	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW393SG2-26	Project:	FRNP00715
Sample ID:	763474015	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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW393SG2-26	Project:	FRNP00715
Sample ID:	763474016	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 09:38		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0837	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1841	2943519	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW397SG2-26	Project:	FRNP00715
Sample ID:	763474017	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 12:46		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0188	0.00846	0.0188	ug/L	0.940	1	LL2	02/11/26	2333	2943512	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.581	0.330	2.00	mg/L		1	KB3	02/11/26	1013	2943294	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1226	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	JW2	02/18/26	1705	2946598	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1119	2944197	6
SW846 9056A Anions (5) "As Received"												
Bromide		0.366	0.0670	0.200	mg/L		1	CH6	02/10/26	1617	2943296	7
Fluoride		0.129	0.0330	0.100	mg/L		1					
Sulfate		11.5	0.133	0.400	mg/L		1					
Chloride		33.0	0.268	0.800	mg/L		4	CH6	02/10/26	1945	2943296	8
Nitrate-N		1.08	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/12/26	0945	2943544	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum		0.0841	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1614	2943316	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.133	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		18.3	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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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW397SG2-26 Project: FRNP00715
Sample ID: 763474017 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper		0.00252	0.000300	0.00200	mg/L	1.00	1					
Iron		0.168	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		7.68	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00315	0.00100	0.00500	mg/L	1.00	1					
Nickel	J	0.000644	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.76	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		33.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00749	0.00330	0.0200	mg/L	1.00	1					
Boron	J	0.0101	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1143	2943316	11
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		192	2.38	10.0	mg/L			SC1	02/11/26	1539	2943552	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	JW2	02/13/26	1452	2945714	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/13/26	0934	2944797	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	UY1	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					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW397SG2-26 Project: FRNP00715
Sample ID: 763474017 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	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	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					

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Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW397SG2-26	Project:	FRNP00715
Sample ID:	763474017	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	MM7	02/11/26	0920	2943315
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/11/26	1040	2943543

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	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 Compounds Liquid "As Received"	6.04 ug/L	6.71	90	(59%-142%)
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"	51.9 ug/L	50.0	104	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.9 ug/L	50.0	102	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
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Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW397SG2-26	Project:	FRNP00715
Sample ID:	763474017	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW397SG2-26	Project:	FRNP00715
Sample ID:	763474018	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	09-FEB-26 12:46		
Receive Date:	10-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.136	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1844	2943519	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	02/10/26	1525	2943458
SW846 3005A	ICP-MS 3005A PREP	ES3	02/12/26	0830	2943518

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: TB1SG2-26
Sample ID: 763474019
Matrix: WATER
Collect Date: 09-FEB-26 07:30
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
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 Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00852	0.0189	ug/L	0.947	1	LL2	02/12/26	0008	2943512	2
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/13/26	0959	2944797	3
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	UY1	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone		5.92	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	Y1	2.73	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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: TB1SG2-26 Project: FRNP00715
Sample ID: 763474019 Client ID: FRNP007

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011, VOA Compounds Liquid "As Received"	5.73 ug/L	6.76	85	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.1 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.7 ug/L	50.0	103	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(89%-112%)

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	TB1SG2-26	Project:	FRNP00715
Sample ID:	763474019	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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: TB2SG2-26
Sample ID: 763474020
Matrix: WATER
Collect Date: 09-FEB-26 08:00
Receive Date: 10-FEB-26
Collector: Client

Project: FRNP00715
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 Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0192	0.00862	0.0192	ug/L	0.958	1	LL2	02/12/26	0042	2943512	2
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	02/13/26	1025	2944797	3
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	UY1	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	Y1	2.24	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	J	0.480	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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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: TB2SG2-26 Project: FRNP00715
Sample ID: 763474020 Client ID: FRNP007

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LL2	02/11/26	1530	2943511

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011, VOA Compounds Liquid "As Received"	6.15 ug/L	6.84	90	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.6 ug/L	50.0	103	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	52.4 ug/L	50.0	105	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	52.3 ug/L	50.0	105	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	TB2SG2-26	Project:	FRNP00715
Sample ID:	763474020	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 C2

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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GEL LABORATORIES LLC

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

Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384DSG2-26
Sample ID: 763607001
Matrix: WG
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.0605	+/-0.328	0.629	+/-0.328	5.00	pCi/L			JD3	02/22/26	1427	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.928	+/-1.46	2.32	+/-1.48	50.0	pCi/L			CM4	02/13/26	0954	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	0.893	+/-2.86	5.37	+/-2.87	8.00	pCi/L			CH7	02/16/26	1400	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	0.763	+/-3.27	6.94	+/-3.28	15.0	pCi/L			CH7	02/13/26	0746	2944455	4
Beta		16.7	+/-7.14	9.72	+/-7.64	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	-51.3	+/-88.6	195	+/-88.7	300	pCi/L			IT1	02/13/26	0951	2944498	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		30.0	+/-13.6	22.0	+/-14.0	25.0	pCi/L			GS3	02/18/26	0902	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	92.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	69	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	55.3	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	97.1	(30%-110%)

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384DSG2-26
Sample ID: 763607001

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384SG2-26
Sample ID: 763607003
Matrix: WG
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.124	+/-0.246	0.400	+/-0.247	5.00	pCi/L			JD3	02/20/26	0827	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.270	+/-0.877	2.32	+/-0.879	50.0	pCi/L			CM4	02/13/26	0954	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-3.01	+/-3.53	7.67	+/-3.53	8.00	pCi/L			CH7	02/16/26	1400	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	4.66	+/-4.88	7.70	+/-4.94	15.0	pCi/L			CH7	02/13/26	0746	2944455	4
Beta		29.4	+/-8.56	10.1	+/-9.81	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	48.3	+/-106	191	+/-106	300	pCi/L			IT1	02/13/26	1013	2944498	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		36.4	+/-13.7	21.9	+/-14.3	25.0	pCi/L			GS3	02/18/26	0938	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	85.6	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	69.2	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	51.1	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	97.6	(30%-110%)

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384SG2-26
Sample ID: 763607003

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW385SG2-26
Sample ID: 763607005
Matrix: WG
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.392	+/-0.597	0.889	+/-0.598	5.00	pCi/L			JD3	02/22/26	1427	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.990	+/-2.73	4.95	+/-2.74	50.0	pCi/L			CM4	02/13/26	0954	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.902	+/-2.16	4.42	+/-2.16	8.00	pCi/L			CH7	02/17/26	1335	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	1.15	+/-3.32	6.73	+/-3.32	15.0	pCi/L			CH7	02/13/26	0746	2944455	4
Beta		22.7	+/-7.88	9.97	+/-8.69	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	57.0	+/-107	192	+/-108	300	pCi/L			IT1	02/13/26	1034	2944498	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		45.4	+/-14.0	22.0	+/-14.9	25.0	pCi/L			GS3	02/17/26	1148	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	92.1	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	31.8	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	70.2	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	97.9	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW385SG2-26
Sample ID: 763607005

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW386SG2-26
Sample ID: 763607007
Matrix: WG
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.0914	+/-0.337	0.649	+/-0.337	5.00	pCi/L			JD3	02/20/26	0827	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.260	+/-1.30	2.61	+/-1.31	50.0	pCi/L			CM4	02/13/26	0954	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.29	+/-2.42	4.74	+/-2.42	8.00	pCi/L			CH7	02/16/26	1400	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	3.38	+/-4.94	8.65	+/-4.98	15.0	pCi/L			CH7	02/13/26	0746	2944455	4
Beta	U	9.46	+/-6.67	10.4	+/-6.85	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	-51.8	+/-88.2	194	+/-88.2	300	pCi/L			IT1	02/13/26	1056	2944498	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	-3.66	+/-12.9	22.4	+/-12.9	25.0	pCi/L			GS3	02/17/26	1224	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	91.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	70.1	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	91.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	97	(30%-110%)

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW386SG2-26
Sample ID: 763607007

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW387SG2-26
Sample ID: 763607009
Matrix: WG
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.163	+/-0.288	0.481	+/-0.289	5.00	pCi/L			JD3	02/20/26	0827	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.393	+/-1.63	3.19	+/-1.63	50.0	pCi/L			CM4	02/13/26	0954	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	3.18	+/-4.01	6.80	+/-4.04	8.00	pCi/L			CH7	02/16/26	1400	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-1.81	+/-2.48	7.56	+/-2.49	15.0	pCi/L			CH7	02/13/26	1243	2944455	4
Beta		87.4	+/-12.5	9.43	+/-18.8	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	-41.7	+/-89.7	192	+/-89.7	300	pCi/L			IT1	02/13/26	2050	2944498	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		147	+/-16.4	22.0	+/-23.3	25.0	pCi/L			GS3	02/17/26	1301	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	90.6	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	62	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	61.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	99.1	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW387SG2-26
Sample ID: 763607009

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW388SG2-26
Sample ID: 763607011
Matrix: WG
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.378	+/-0.339	0.431	+/-0.341	5.00	pCi/L			JD3	02/20/26	0827	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	1.60	+/-1.96	2.79	+/-1.99	50.0	pCi/L			CM4	02/13/26	0954	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	0.932	+/-3.02	5.57	+/-3.02	8.00	pCi/L			CH7	02/16/26	1400	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	4.81	+/-4.31	6.19	+/-4.38	15.0	pCi/L			CH7	02/13/26	0747	2944455	4
Beta	U	6.91	+/-6.78	11.2	+/-6.88	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	47.4	+/-106	193	+/-107	300	pCi/L			IT1	02/13/26	2112	2944498	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		23.1	+/-13.3	21.8	+/-13.6	25.0	pCi/L			GS3	02/18/26	1015	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	93.1	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	54	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	59.6	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	97.4	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW388SG2-26
Sample ID: 763607011

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: RI1SG2-26
Sample ID: 763607013
Matrix: WATER
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.166	+/-0.357	0.630	+/-0.357	5.00	pCi/L			JD3	02/20/26	0827	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.767	+/-2.35	4.43	+/-2.36	50.0	pCi/L			CM4	02/13/26	0954	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-4.03	+/-3.20	7.56	+/-3.20	8.00	pCi/L			CH7	02/16/26	1400	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	3.93	+/-4.12	6.51	+/-4.17	15.0	pCi/L			CH7	02/13/26	0747	2944455	4
Beta	U	2.39	+/-4.90	8.69	+/-4.92	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	68.8	+/-134	240	+/-135	300	pCi/L			IT1	02/16/26	1607	2946306	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	3.70	+/-13.2	22.6	+/-13.2	25.0	pCi/L			GS3	02/17/26	1413	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	87.4	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	37.9	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	38.3	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	95.2	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: RI1SG2-26
Sample ID: 763607013

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: FB1SG2-26
Sample ID: 763607015
Matrix: WATER
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.176	+/-0.312	0.521	+/-0.313	5.00	pCi/L			JD3	02/20/26	0827	2947701	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	1.54	+/-3.41	5.80	+/-3.44	50.0	pCi/L			CM4	02/16/26	0857	2944514	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-2.91	+/-3.27	7.49	+/-3.27	8.00	pCi/L			CH7	02/16/26	1400	2944467	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	5.30	+/-4.61	6.76	+/-4.69	15.0	pCi/L			CH7	02/13/26	0747	2944455	4
Beta	U	7.11	+/-7.03	11.6	+/-7.13	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	18.5	+/-101	192	+/-101	300	pCi/L			IT1	02/13/26	2155	2944498	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	6.97	+/-13.5	22.9	+/-13.5	25.0	pCi/L			GS3	02/17/26	1449	2944155	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2947701	89.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944514	42.5	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2944467	46.8	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2944155	95.3	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: FB1SG2-26
Sample ID: 763607015

Project: FRNP00715
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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW384DSG2-26	Project:	FRNP00715
Sample ID:	763607001	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 09:39		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00853	0.0189	ug/L	0.947	1	LL2	02/12/26	2004	2944177	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.20	0.330	2.00	mg/L		1	KB3	02/11/26	2345	2943555	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1227	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	9.72	3.33	10.0	ug/L		1	JW2	02/18/26	1759	2946598	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1132	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.148	0.0330	0.100	mg/L		1	CH6	02/11/26	1318	2944060	7
Bromide	J	0.274	0.134	0.400	mg/L		2	CH6	02/11/26	1804	2944060	8
Sulfate		19.8	0.266	0.800	mg/L		2					
Chloride		21.5	0.268	0.800	mg/L		4	CH6	02/11/26	2133	2944060	9
Nitrate-N		0.779	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/13/26	0933	2944549	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	J	0.0325	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1611	2944104	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		0.218	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.104	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		24.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384DSG2-26 Project: FRNP00715
Sample ID: 763607001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00145	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0633	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.4	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00185	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		1.47	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		46.7	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	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	229	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	UN	20.0	8.95	20.0	mg/L		1	BR2	02/18/26	1447	2947499	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1054	2947161	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					

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Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384DSG2-26 Project: FRNP00715
Sample ID: 763607001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.610	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					

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW384DSG2-26	Project:	FRNP00715
Sample ID:	763607001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548
SW846 8011 PREP	8011 Prep	BM1	02/12/26	1232	2944174
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 3005A	ICP-MS 3005A PREP	JB7	02/11/26	1530	2944099

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	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 Compounds Liquid "As Received"	5.74 ug/L	6.77	85	(59%-142%)
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"	53.8 ug/L	50.0	108	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(89%-112%)

Notes:

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW384DSG2-26	Project:	FRNP00715
Sample ID:	763607001	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW384DSG2-26	Project:	FRNP00715
Sample ID:	763607002	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 09:39		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.226	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1707	2944272	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	CJ3	02/12/26	1535	2944270
EPA 160	Laboratory Filtration	JM13	02/11/26	1340	2944145

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384SG2-26
Sample ID: 763607003
Matrix: WG
Collect Date: 10-FEB-26 09:39
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00715
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 Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0195	0.00877	0.0195	ug/L	0.975	1	LL2	02/12/26	2038	2944177	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.27	0.330	2.00	mg/L		1	KB3	02/12/26	0017	2943555	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1228	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.84	3.33	10.0	ug/L		1	JW2	02/18/26	1835	2946598	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1145	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.152	0.0330	0.100	mg/L		1	CH6	02/11/26	1335	2944060	7
Bromide	J	0.284	0.134	0.400	mg/L		2	CH6	02/11/26	1821	2944060	8
Sulfate		19.9	0.266	0.800	mg/L		2					
Chloride		21.6	0.268	0.800	mg/L		4	CH6	02/11/26	2150	2944060	9
Nitrate-N		0.778	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/13/26	0935	2944549	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1614	2944104	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		0.221	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.106	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		25.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384SG2-26 Project: FRNP00715
Sample ID: 763607003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper		0.00242	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0655	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.7	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00240	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		1.47	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		47.8	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	0.00557	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	229	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	UN	20.0	8.95	20.0	mg/L		1	BR2	02/18/26	1447	2947499	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1119	2947161	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					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW384SG2-26 Project: FRNP00715
Sample ID: 763607003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.580	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					

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Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW384SG2-26	Project:	FRNP00715
Sample ID:	763607003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/11/26	1530	2944099
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548
SW846 8011 PREP	8011 Prep	BM1	02/12/26	1232	2944174
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377

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	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 Compounds Liquid "As Received"	5.50 ug/L	6.96	79	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.9 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.1 ug/L	50.0	108	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.7 ug/L	50.0	101	(89%-112%)

Notes:

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Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW384SG2-26	Project:	FRNP00715
Sample ID:	763607003	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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW384SG2-26	Project:	FRNP00715
Sample ID:	763607004	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 09:39		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.220	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1710	2944272	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	JM13	02/11/26	1340	2944145
SW846 3005A	ICP-MS 3005A PREP	CJ3	02/12/26	1535	2944270

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW385SG2-26	Project:	FRNP00715
Sample ID:	763607005	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 12:12		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00856	0.0190	ug/L	0.951	1	LL2	02/12/26	2112	2944177	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.04	0.330	2.00	mg/L		1	KB3	02/12/26	0048	2943555	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1229	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	JW2	02/18/26	1354	2946598	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1158	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.162	0.0330	0.100	mg/L		1	CH6	02/11/26	1353	2944060	7
Sulfate		17.3	0.133	0.400	mg/L		1					
Bromide	J	0.201	0.134	0.400	mg/L		2	CH6	02/11/26	1839	2944060	8
Chloride		18.8	0.134	0.400	mg/L		2					
Nitrate-N		0.323	0.0660	0.200	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	02/13/26	0937	2944549	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	J	0.0307	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1624	2944104	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.217	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0537	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		27.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00316	0.00300	0.0100	mg/L	1.00	1					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW385SG2-26 Project: FRNP00715
Sample ID: 763607005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Cobalt	J	0.000710	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00193	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0516	0.0330	0.100	mg/L	1.00	1					
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		0.0104	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000522	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00222	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.60	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		36.3	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					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00491	0.00330	0.0200	mg/L	1.00	1					
Uranium	J	0.0000950	0.0000670	0.000200	mg/L	1.00	1	BB2	02/18/26	1236	2944104	11
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	219	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	UN	20.0	8.95	20.0	mg/L		1	BR2	02/18/26	1447	2947499	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1145	2947161	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					

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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW385SG2-26 Project: FRNP00715
Sample ID: 763607005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
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					

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW385SG2-26	Project:	FRNP00715
Sample ID:	763607005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/12/26	1232	2944174
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 3005A	ICP-MS 3005A PREP	JB7	02/11/26	1530	2944099
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	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 Compounds Liquid "As Received"	5.53 ug/L	6.79	81	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.7 ug/L	50.0	101	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.4 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW385SG2-26	Project:	FRNP00715
Sample ID:	763607005	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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW385SG2-26	Project:	FRNP00715
Sample ID:	763607006	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 12:12		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.208	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1713	2944272	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.0000750	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	JM13	02/11/26	1340	2944145
SW846 3005A	ICP-MS 3005A PREP	CJ3	02/12/26	1535	2944270

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW386SG2-26	Project:	FRNP00715
Sample ID:	763607007	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 13:05		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00856	0.0190	ug/L	0.952	1	LL2	02/12/26	2256	2944177	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		6.29	0.330	2.00	mg/L		1	KB3	02/12/26	0223	2943555	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1232	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		123	3.33	10.0	ug/L		1	RMJ	02/17/26	0312	2946890	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1236	2944197	6
SW846 9056A Anions (5) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	02/11/26	1445	2944060	7
Chloride		9.09	0.0670	0.200	mg/L		1					
Fluoride		0.774	0.0330	0.100	mg/L		1					
Nitrate-N	U	0.100	0.0330	0.100	mg/L		1					
Sulfate		33.9	0.266	0.800	mg/L		2	CH6	02/11/26	2207	2944060	8
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/13/26	0946	2944549	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1653	2944104	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00220	0.00200	0.00500	mg/L	1.00	1					
Barium		0.148	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0150	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		18.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW386SG2-26 Project: FRNP00715
Sample ID: 763607007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Cobalt		0.00946	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00122	0.000300	0.00200	mg/L	1.00	1					
Iron		0.570	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		0.799	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00102	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00209	0.000600	0.00200	mg/L	1.00	1					
Potassium	J	0.273	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	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Sodium		109	0.400	1.25	mg/L	1.00	5	BB2	02/13/26	0852	2944104	11
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	360	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	JN	11.4	8.95	20.0	mg/L		1	BR2	02/18/26	1448	2947499	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1210	2947161	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					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW386SG2-26 Project: FRNP00715
Sample ID: 763607007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
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					

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW386SG2-26	Project:	FRNP00715
Sample ID:	763607007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/12/26	1232	2944174
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 3005A	ICP-MS 3005A PREP	JB7	02/11/26	1530	2944099
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	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 Compounds Liquid "As Received"	5.78 ug/L	6.80	85	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.4 ug/L	50.0	103	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	55.5 ug/L	50.0	111	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.5 ug/L	50.0	101	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW386SG2-26	Project:	FRNP00715
Sample ID:	763607007	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW386SG2-26	Project:	FRNP00715
Sample ID:	763607008	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 13:05		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.133	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1735	2944272	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	JM13	02/11/26	1340	2944145
SW846 3005A	ICP-MS 3005A PREP	CJ3	02/12/26	1535	2944270

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW387SG2-26	Project:	FRNP00715
Sample ID:	763607009	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 08:03		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00859	0.0191	ug/L	0.954	1	LL2	02/12/26	2330	2944177	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.40	0.330	2.00	mg/L		1	KB3	02/12/26	0255	2943555	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1233	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	02/17/26	0348	2946890	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1249	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.841	0.0330	0.100	mg/L		1	CH6	02/11/26	1537	2944060	7
Bromide		0.483	0.134	0.400	mg/L		2	CH6	02/11/26	2006	2944060	8
Sulfate		33.7	0.266	0.800	mg/L		2					
Chloride		36.3	0.335	1.00	mg/L		5	CH6	02/11/26	2259	2944060	9
Nitrate-N		1.01	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/13/26	0948	2944549	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	J	0.0304	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1656	2944104	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		0.114	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0354	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		39.7	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00590	0.00300	0.0100	mg/L	1.00	1					

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW387SG2-26 Project: FRNP00715
Sample ID: 763607009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper		0.00238	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0764	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		16.7	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00460	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		1.84	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	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	0.00660	0.00330	0.0200	mg/L	1.00	1					
Sodium		55.9	0.160	0.500	mg/L	1.00	2	BB2	02/13/26	0846	2944104	12
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	308	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	UN	20.0	8.95	20.0	mg/L		1	BR2	02/18/26	1448	2947499	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1236	2947161	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					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW387SG2-26 Project: FRNP00715
Sample ID: 763607009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.400	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					

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW387SG2-26	Project:	FRNP00715
Sample ID:	763607009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/12/26	1232	2944174
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 3005A	ICP-MS 3005A PREP	JB7	02/11/26	1530	2944099
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548

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	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 Compounds Liquid "As Received"	5.98 ug/L	6.81	88	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.5 ug/L	50.0	97	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	55.8 ug/L	50.0	112	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW387SG2-26	Project:	FRNP00715
Sample ID:	763607009	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW387SG2-26	Project:	FRNP00715
Sample ID:	763607010	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 08:03		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.118	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1738	2944272	1
Chromium	J	0.00606	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	JM13	02/11/26	1340	2944145
SW846 3005A	ICP-MS 3005A PREP	CJ3	02/12/26	1535	2944270

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW388SG2-26	Project:	FRNP00715
Sample ID:	763607011	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 08:51		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00859	0.0191	ug/L	0.955	1	LL2	02/13/26	0005	2944177	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.04	0.330	2.00	mg/L		1	KB3	02/12/26	0327	2943555	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/19/26	1234	2944378	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	02/17/26	0451	2946890	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1328	2944197	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.173	0.0330	0.100	mg/L		1	CH6	02/11/26	1554	2944060	7
Sulfate		16.9	0.133	0.400	mg/L		1					
Bromide	U	0.800	0.268	0.800	mg/L		4	CH6	02/11/26	2023	2944060	8
Chloride		36.1	0.268	0.800	mg/L		4					
Nitrate-N		1.02	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/13/26	0950	2944549	9
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1659	2944104	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.191	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0219	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		24.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Client Sample ID: MW388SG2-26 Project: FRNP00715
Sample ID: 763607011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00188	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0351	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.7	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		1.71	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		43.6	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	0.00462	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	211	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	11
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	N	25.0	8.95	20.0	mg/L		1	BR2	02/18/26	1448	2947499	12
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1302	2947161	13
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					

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Client Sample ID: MW388SG2-26 Project: FRNP00715
Sample ID: 763607011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
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					

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW388SG2-26	Project:	FRNP00715
Sample ID:	763607011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	02/11/26	1530	2944099
SW846 9010C Distillation	SW846 9010C Prep	AXH3	02/18/26	1202	2944377
SW846 8011 PREP	8011 Prep	BM1	02/12/26	1232	2944174
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011, VOA Compounds Liquid "As Received"	6.18 ug/L	6.82	91	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.6 ug/L	50.0	101	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.9 ug/L	50.0	110	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.9 ug/L	50.0	102	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW388SG2-26	Project:	FRNP00715
Sample ID:	763607011	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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW388SG2-26	Project:	FRNP00715
Sample ID:	763607012	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	10-FEB-26 08:51		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.192	0.000670	0.00400	mg/L	1.00	1	RM4	02/13/26	1741	2944272	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	CJ3	02/12/26	1535	2944270
EPA 160	Laboratory Filtration	JM13	02/11/26	1340	2944145

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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	RI1SG2-26	Project:	FRNP00715
Sample ID:	763607013	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	10-FEB-26 07:15		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0188	0.00848	0.0188	ug/L	0.942	1	LL2	02/13/26	0120	2944177	2
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1340	2944197	3
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/13/26	0951	2944549	4
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	J	0.0259	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1702	2944104	5
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	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					
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	0.200	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	U	0.00200	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	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					

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: RI1SG2-26 Project: FRNP00715
Sample ID: 763607013 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1327	2947161	6
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		2.29	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	J	0.350	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					

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	RI1SG2-26	Project:	FRNP00715
Sample ID:	763607013	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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					
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	02/12/26	1232	2944174
SW846 3005A	ICP-MS 3005A PREP	JB7	02/11/26	1530	2944099
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011, VOA Compounds Liquid "As Received"	5.90 ug/L	6.73	88	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.4 ug/L	50.0	103	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.2 ug/L	50.0	108	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.4 ug/L	50.0	103	(89%-112%)

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Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	RI1SG2-26	Project:	FRNP00715
Sample ID:	763607013	Client ID:	FRNP007

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

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	TB3SG2-26	Project:	FRNP00715
Sample ID:	763607014	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	10-FEB-26 07:10		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00861	0.0191	ug/L	0.956	1	LL2	02/13/26	0155	2944177	2
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1353	2947161	3
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	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		2.32	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	J	0.340	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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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: TB3SG2-26 Project: FRNP00715
Sample ID: 763607014 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	BM1	02/12/26	1232	2944174

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011, VOA Compounds Liquid "As Received"	5.85 ug/L	6.83	86	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.6 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.1 ug/L	50.0	102	(89%-112%)

Notes:

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	TB3SG2-26	Project:	FRNP00715
Sample ID:	763607014	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	FB1SG2-26	Project:	FRNP00715
Sample ID:	763607015	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	10-FEB-26 09:42		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0192	0.00863	0.0192	ug/L	0.959	1	LL2	02/13/26	0229	2944177	2
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1353	2944197	3
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/13/26	0953	2944549	4
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	BB2	02/12/26	1705	2944104	5
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	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					
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	0.200	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	U	0.00200	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	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					

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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: FB1SG2-26 Project: FRNP00715
Sample ID: 763607015 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/17/26	1419	2947161	6
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		1.98	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					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	FB1SG2-26	Project:	FRNP00715
Sample ID:	763607015	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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					
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 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/12/26	1330	2944548
SW846 8011 PREP	8011 Prep	BM1	02/12/26	1232	2944174
SW846 3005A	ICP-MS 3005A PREP	JB7	02/11/26	1530	2944099

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011, VOA Compounds Liquid "As Received"	6.33 ug/L	6.85	92	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.1 ug/L	50.0	102	(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"	51.2 ug/L	50.0	102	(89%-112%)

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	FB1SG2-26	Project:	FRNP00715
Sample ID:	763607015	Client ID:	FRNP007

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

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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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW394SG2-26
Sample ID: 763953001
Matrix: WG
Collect Date: 11-FEB-26
Receive Date: 12-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.181	+/-0.356	0.603	+/-0.357	5.00	pCi/L			JD3	02/15/26	1111	2944920	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	2.32	+/-3.68	5.07	+/-3.75	50.0	pCi/L			SB3	02/17/26	1404	2944921	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.87	+/-2.78	5.69	+/-2.78	8.00	pCi/L			HH3	02/16/26	1446	2945515	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	0.233	+/-2.63	6.13	+/-2.64	15.0	pCi/L			JH2	02/14/26	1333	2945466	4
Beta	U	7.11	+/-6.07	9.76	+/-6.18	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	-8.64	+/-81.9	173	+/-81.9	300	pCi/L			IT1	02/14/26	1820	2945032	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	10.7	+/-9.99	16.6	+/-10.1	25.0	pCi/L			BB3	02/18/26	0003	2945021	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2944920	94.4	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944921	77.7	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2945515	83	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2945021	90.8	(30%-110%)

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW394SG2-26
Sample ID: 763953001

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW395SG2-26
Sample ID: 763953003
Matrix: WG
Collect Date: 11-FEB-26
Receive Date: 12-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.350	+/-0.377	0.428	+/-0.377	5.00	pCi/L			JD3	02/15/26	1111	2944920	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	5.09	+/-6.12	6.94	+/-6.38	50.0	pCi/L			SB3	02/17/26	1404	2944921	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.126	+/-2.75	5.18	+/-2.75	8.00	pCi/L			HH3	02/16/26	1446	2945515	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-0.795	+/-2.37	6.56	+/-2.38	15.0	pCi/L			JH2	02/16/26	1300	2945466	4
Beta	U	-0.345	+/-5.32	10.2	+/-5.32	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	47.5	+/-94.9	173	+/-95.4	300	pCi/L			IT1	02/14/26	1842	2945032	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	13.8	+/-9.66	15.6	+/-9.79	25.0	pCi/L			BB3	02/18/26	0020	2945021	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2944920	97.1	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944921	52.1	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2945515	93.6	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2945021	96.5	(30%-110%)

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Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW395SG2-26
Sample ID: 763953003

Project: FRNP00715
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW396SG2-26
Sample ID: 763953005
Matrix: WG
Collect Date: 11-FEB-26
Receive Date: 12-FEB-26
Collector: Client

Project: FRNP00715
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.327	+/-0.397	0.533	+/-0.398	5.00	pCi/L			JD3	02/15/26	1111	2944920	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-1.06	+/-2.04	6.53	+/-2.06	50.0	pCi/L			SB3	02/17/26	1404	2944921	2
Rad Gas Flow Proportional Counting														
905.0 Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.626	+/-1.79	3.66	+/-1.79	8.00	pCi/L			HH3	02/16/26	1446	2945515	3
9310,Alpha/Beta Activity, liquid "As Received"														
Alpha	U	3.89	+/-5.10	8.68	+/-5.14	15.0	pCi/L			JH2	02/14/26	1333	2945466	4
Beta	U	3.78	+/-6.14	10.7	+/-6.18	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0 Mod, Tritium Dist, Liquid "As Received"														
Tritium	U	37.1	+/-92.6	173	+/-92.9	300	pCi/L			IT1	02/14/26	1904	2945032	5
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	10.2	+/-9.60	15.9	+/-9.67	25.0	pCi/L			BB3	02/18/26	0036	2945021	6

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AlphaSpec Ra226, Liquid "As Received"	2944920	90.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2944921	71.7	(30%-110%)
Strontium Carrier	905.0 Mod, Sr90, liquid "As Received"	2945515	102	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2945021	95.4	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW396SG2-26
Sample ID: 763953005

Project: FRNP00715
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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW394SG2-26	Project:	FRNP00715
Sample ID:	763953001	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	11-FEB-26 08:16		
Receive Date:	12-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00854	0.0190	ug/L	0.949	1	LL2	02/13/26	2119	2944838	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.677	0.330	2.00	mg/L		1	KB3	02/13/26	0245	2944800	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/25/26	1109	2946748	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	4.58	3.33	10.0	ug/L		1	RMJ	02/17/26	0135	2946890	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1602	2944793	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.122	0.0330	0.100	mg/L		1	CH6	02/12/26	1329	2944753	7
Sulfate		11.9	0.133	0.400	mg/L		1					
Bromide	J	0.544	0.268	0.800	mg/L		4	CH6	02/12/26	1719	2944753	8
Nitrate-N		1.20	0.132	0.400	mg/L		4					
Chloride		43.4	0.670	2.00	mg/L		10	CH6	02/12/26	2327	2944753	9
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/16/26	0944	2945311	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1630	2944817	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		0.256	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		27.9	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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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW394SG2-26 Project: FRNP00715
Sample ID: 763953001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper	J	0.00136	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		12.0	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.00458	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.34	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					
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	0.00466	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0234	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1202	2944817	12
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		198	2.38	10.0	mg/L			SC1	02/16/26	1415	2945504	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	UN	20.0	8.95	20.0	mg/L		1	BR2	02/18/26	1448	2947499	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/18/26	0932	2947755	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					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW394SG2-26 Project: FRNP00715
Sample ID: 763953001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene		4.59	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					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW394SG2-26	Project:	FRNP00715
Sample ID:	763953001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LOF	02/13/26	1235	2944837
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/13/26	1400	2945309
SW846 9010C Distillation	SW846 9010C Prep	GP1	02/23/26	1510	2946747
SW846 3005A	ICP-MS 3005A PREP	CJ3	02/12/26	1535	2944816

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	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 Compounds Liquid "As Received"	5.64 ug/L	6.78	83	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.8 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.6 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.8 ug/L	50.0	102	(89%-112%)

Notes:

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW394SG2-26	Project:	FRNP00715
Sample ID:	763953001	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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW394SG2-26	Project:	FRNP00715
Sample ID:	763953002	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	11-FEB-26 08:16		
Receive Date:	12-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.262	0.000670	0.00400	mg/L	1.00	1	RM4	02/16/26	2016	2945101	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	MM7	02/12/26	1400	2944796
SW846 3005A	ICP-MS 3005A PREP	JB7	02/13/26	1510	2945099

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW395SG2-26	Project:	FRNP00715
Sample ID:	763953003	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	11-FEB-26 09:06		
Receive Date:	12-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00851	0.0189	ug/L	0.945	1	LL2	02/13/26	2302	2944838	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.683	0.330	2.00	mg/L		1	KB3	02/13/26	0424	2944800	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/25/26	1110	2946748	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	02/16/26	2325	2946890	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	02/12/26	1615	2944793	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.112	0.0330	0.100	mg/L		1	CH6	02/12/26	1346	2944753	7
Sulfate		11.1	0.133	0.400	mg/L		1					
Bromide	J	0.550	0.268	0.800	mg/L		4	CH6	02/12/26	1924	2944753	8
Nitrate-N		1.28	0.132	0.400	mg/L		4					
Chloride		43.0	0.670	2.00	mg/L		10	CH6	02/12/26	2344	2944753	9
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	02/16/26	0949	2945311	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1633	2944817	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		0.259	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		27.5	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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Company : Four Rivers Nuclear Partnership, LLC
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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW395SG2-26 Project: FRNP00715
Sample ID: 763953003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper	J	0.00108	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0353	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		11.9	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00113	0.00100	0.00500	mg/L	1.00	1					
Nickel	J	0.000651	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.60	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		32.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0231	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1204	2944817	12
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		200	2.38	10.0	mg/L			SC1	02/16/26	1415	2945504	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	JN	9.14	8.95	20.0	mg/L		1	BR2	02/18/26	1448	2947499	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/18/26	0958	2947755	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					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW395SG2-26 Project: FRNP00715
Sample ID: 763953003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene		4.64	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					

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW395SG2-26	Project:	FRNP00715
Sample ID:	763953003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	CJ3	02/12/26	1535	2944816
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/13/26	1400	2945309
SW846 9010C Distillation	SW846 9010C Prep	GP1	02/23/26	1510	2946747
SW846 8011 PREP	8011 Prep	LOF	02/13/26	1235	2944837

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	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 Compounds Liquid "As Received"	5.23 ug/L	6.75	78	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.2 ug/L	50.0	98	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.2 ug/L	50.0	108	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(89%-112%)

Notes:

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Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW395SG2-26	Project:	FRNP00715
Sample ID:	763953003	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW395SG2-26	Project:	FRNP00715
Sample ID:	763953004	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	11-FEB-26 09:06		
Receive Date:	12-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.258	0.000670	0.00400	mg/L	1.00	1	RM4	02/16/26	2019	2945101	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	MM7	02/12/26	1400	2944796
SW846 3005A	ICP-MS 3005A PREP	JB7	02/13/26	1510	2945099

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW396SG2-26	Project:	FRNP00715
Sample ID:	763953005	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	11-FEB-26 10:02		
Receive Date:	12-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0192	0.00864	0.0192	ug/L	0.960	1	LL2	02/13/26	2337	2944838	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		3.47	0.330	2.00	mg/L		1	KB3	02/13/26	0317	2944800	3
Flow Injection Analysis												
9012B, Total Cyanide "As Received"												
Cyanide, Total	UN	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	02/25/26	1119	2946748	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		37.4	3.33	10.0	ug/L		1	RMJ	02/17/26	0213	2946890	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	J	0.310	0.167	0.500	mg/L		1	CH6	02/12/26	1653	2944793	6
SW846 9056A Anions (5) "As Received"												
Fluoride		0.571	0.0330	0.100	mg/L		1	CH6	02/12/26	1439	2944753	7
Nitrate-N	U	0.100	0.0330	0.100	mg/L		1					
Bromide	J	0.750	0.268	0.800	mg/L		4	CH6	02/13/26	0111	2944753	8
Chloride		49.2	0.670	2.00	mg/L		10	CH6	02/13/26	0129	2944753	9
Sulfate		29.5	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	02/16/26	0955	2945311	10
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/13/26	1648	2944817	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		0.370	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		31.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW396SG2-26 Project: FRNP00715
Sample ID: 763953005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+) "As Received"												
Copper	J	0.00136	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0451	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		13.9	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.168	0.00100	0.00500	mg/L	1.00	1					
Nickel	J	0.000770	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.769	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					
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	0.00342	0.00330	0.0200	mg/L	1.00	1					
Boron	J	0.00923	0.00520	0.0150	mg/L	1.00	1	RM4	02/16/26	1213	2944817	12
Molybdenum	J	0.000322	0.000200	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Sodium		108	0.400	1.25	mg/L	1.00	5	RM4	02/16/26	1215	2944817	13
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		393	2.38	10.0	mg/L			SC1	02/16/26	1415	2945504	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	UN	20.0	8.95	20.0	mg/L		1	BR2	02/18/26	1448	2947499	15
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/18/26	1024	2947755	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					

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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: MW396SG2-26 Project: FRNP00715
Sample ID: 763953005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,2-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					
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					

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Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW396SG2-26	Project:	FRNP00715
Sample ID:	763953005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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	CJ3	02/12/26	1535	2944816
SW846 9010C Distillation	SW846 9010C Prep	GP1	02/23/26	1510	2946747
SW846 8011 PREP	8011 Prep	LOF	02/13/26	1235	2944837
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	02/13/26	1400	2945309

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	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 Compounds Liquid "As Received"	6.17 ug/L	6.86	90	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	53.3 ug/L	50.0	107	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	55.1 ug/L	50.0	110	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.6 ug/L	50.0	101	(89%-112%)

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW396SG2-26	Project:	FRNP00715
Sample ID:	763953005	Client ID:	FRNP007

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

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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	MW396SG2-26	Project:	FRNP00715
Sample ID:	763953006	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	11-FEB-26 10:02		
Receive Date:	12-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.361	0.000670	0.00400	mg/L	1.00	1	RM4	02/16/26	2035	2945101	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.0000770	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	MM7	02/12/26	1400	2944796
SW846 3005A	ICP-MS 3005A PREP	JB7	02/13/26	1510	2945099

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	TB4SG2-26	Project:	FRNP00715
Sample ID:	763953007	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	11-FEB-26 07:20		
Receive Date:	12-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011, VOA Compounds Liquid "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00853	0.0189	ug/L	0.947	1	LL2	02/14/26	0011	2944838	2
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	02/18/26	1049	2947755	3
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	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		1.99	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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID: TB4SG2-26 Project: FRNP00715
Sample ID: 763953007 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	LOF	02/13/26	1235	2944837

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011, VOA Compounds Liquid "As Received"	5.49 ug/L	6.77	81	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.9 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.8 ug/L	50.0	110	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.0 ug/L	50.0	102	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Quarterly(SG26-02)

Client Sample ID:	TB4SG2-26	Project:	FRNP00715
Sample ID:	763953007	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 C4

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW369UG2-26
Sample ID: 761020005
Matrix: WG
Collect Date: 21-JAN-26
Receive Date: 22-JAN-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.118	+/-0.320	0.593	+/-0.320	5.00	pCi/L			BS3	01/25/26	1009	2932902	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	2.67	+/-2.68	3.39	+/-2.74	50.0	pCi/L			MB3	01/24/26	0835	2932903	2
Thorium-232	U	-0.591	+/-1.08	3.36	+/-1.08		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228		8.95	+/-3.90	5.48	+/-4.57	4.99	pCi/L			CH7	02/17/26	0805	2933099	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.537	+/-2.52	4.85	+/-2.52	8.00	pCi/L			HH3	01/27/26	1601	2933089	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	0.176	+/-2.78	6.47	+/-2.78	15.0	pCi/L			JH2	01/23/26	1201	2933097	5
Beta		27.5	+/-9.42	12.9	+/-10.4	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	15.4	+/-117	222	+/-117	300	pCi/L			MG6	02/02/26	1653	2933070	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		53.0	+/-12.6	17.2	+/-13.9	25.0	pCi/L			BB3	02/08/26	1707	2934120	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"	2932902	96.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2932903	38.2	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2933099	81.8	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2933089	95.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2934120	97.5	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW369UG2-26
Sample ID: 761020005

Project: FRNP00714
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW370UG2-26
Sample ID: 761020007
Matrix: WG
Collect Date: 21-JAN-26
Receive Date: 22-JAN-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.430	+/-0.416	0.565	+/-0.419	5.00	pCi/L			BS3	01/25/26	1009	2932902	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	1.18	+/-2.45	4.27	+/-2.46	50.0	pCi/L			MB3	01/24/26	0835	2932903	2
Thorium-232	U	-0.139	+/-1.01	2.40	+/-1.01		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	2.59	+/-2.91	4.86	+/-3.00	4.99	pCi/L			CH7	02/09/26	1019	2933099	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	1.92	+/-1.68	2.67	+/-1.70	8.00	pCi/L			HH3	01/28/26	1235	2933089	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	3.23	+/-4.12	6.91	+/-4.15	15.0	pCi/L			JH2	01/23/26	1201	2933097	5
Beta	U	6.10	+/-7.94	13.5	+/-8.00	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	118	+/-133	223	+/-135	300	pCi/L			MG6	02/02/26	1720	2933070	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	4.54	+/-10.2	17.6	+/-10.2	25.0	pCi/L			BB3	02/08/26	1723	2934120	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"	2932902	91.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2932903	36.3	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2933099	85.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2933089	100	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2934120	98.2	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW370UG2-26
Sample ID: 761020007

Project: FRNP00714
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW369UG2-26	Project:	FRNP00714
Sample ID:	761020005	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	21-JAN-26 09:54		
Receive Date:	22-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00860	0.0191	ug/L	0.956	1	BM1	01/26/26	1700	2933140	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.675	0.330	1.00	mg/L		1	KB3	01/23/26	2319	2932137	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	UN	0.00500	0.00167	0.00500	mg/L	1.00	1	KLP1	01/30/26	1230	2933377	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		12.4	3.33	10.0	ug/L		1	JW2	02/04/26	1421	2938973	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	01/26/26	1147	2934285	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.339	0.0670	0.200	mg/L		1	CH6	01/22/26	1341	2932962	7
Fluoride		0.163	0.0330	0.100	mg/L		1					
Sulfate		7.72	0.133	0.400	mg/L		1					
Chloride		26.1	0.335	1.00	mg/L		5	CH6	01/22/26	1747	2932962	8
Nitrate-N		1.12	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	01/26/26	1031	2933559	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum		0.0684	0.0193	0.0500	mg/L	1.00	1	RM4	02/05/26	1333	2933037	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.366	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0180	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		16.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW369UG2-26 Project: FRNP00714
Sample ID: 761020005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Cobalt		0.00432	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00144	0.000300	0.00200	mg/L	1.00	1					
Iron		0.115	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	6.84	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00444	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00237	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.553	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00284	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					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Sodium		53.3	0.400	1.25	mg/L	1.00	5	RM4	02/06/26	1733	2933037	11
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.101	0.0335	0.101	ug/L	0.00101	1	JXM	01/28/26	2024	2935471	12
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	*	186	2.38	10.0	mg/L			SC1	01/27/26	1619	2934485	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW369UG2-26 Project: FRNP00714
Sample ID: 761020005 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	01/22/26	1718	2932092	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	01/28/26	1107	2935604	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	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	UY1	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	UY1	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	UY1	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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW369UG2-26	Project:	FRNP00714
Sample ID:	761020005	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	0.720	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	KW3	01/28/26	1332	2935470
SW846 3005A	ICP-MS 3005A PREP	ES3	01/23/26	0830	2933036
SW846 8011 PREP	8011 Prep	BM1	01/26/26	0947	2933139
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	01/23/26	1600	2933558
SW846 9010C Distillation	SW846 9010C Prep	GP1	01/29/26	1626	2933376

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW369UG2-26	Project:	FRNP00714
Sample ID:	761020005	Client ID:	FRNP007

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

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 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"	7.00 ug/L	6.83	102	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.0939 ug/L	0.201	47	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.141 ug/L	0.201	70	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.6 ug/L	50.0	101	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.6 ug/L	50.0	103	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	52.6 ug/L	50.0	105	(89%-112%)

Notes:

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW369UG2-26	Project:	FRNP00714
Sample ID:	761020006	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	21-JAN-26 09:54		
Receive Date:	22-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.364	0.000670	0.00400	mg/L	1.00	1	BCD1	01/26/26	1949	2933307	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	01/22/26	1430	2932905
SW846 3005A	ICP-MS 3005A PREP	HC1	01/24/26	0920	2933306

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW370UG2-26	Project:	FRNP00714
Sample ID:	761020007	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	21-JAN-26 12:05		
Receive Date:	22-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00856	0.0190	ug/L	0.952	1	BM1	01/26/26	1735	2933140	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.617	0.330	1.00	mg/L		1	KB3	01/24/26	0025	2932137	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	UN	0.00500	0.00167	0.00500	mg/L	1.00	1	KLP1	01/30/26	1231	2933377	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	7.02	3.33	10.0	ug/L		1	JW2	02/04/26	1451	2938973	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	01/26/26	1200	2934285	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.517	0.0670	0.200	mg/L		1	CH6	01/22/26	1411	2932962	7
Fluoride		0.140	0.0330	0.100	mg/L		1					
Sulfate		19.2	0.133	0.400	mg/L		1					
Chloride		40.0	0.335	1.00	mg/L		5	CH6	01/22/26	1818	2932962	8
Nitrate-N		1.13	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	01/26/26	1033	2933559	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/05/26	1336	2933037	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.220	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0732	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW370UG2-26 Project: FRNP00714
Sample ID: 761020007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00116	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	11.3	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		2.45	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		41.1	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					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.101	0.0336	0.101	ug/L	0.00101	1	JXM	01/28/26	2039	2935471	11
Aroclor-1221	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1232	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1242	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1248	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1254	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1260	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1268	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-Total	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	215	2.38	10.0	mg/L			SC1	01/27/26	1619	2934485	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW370UG2-26 Project: FRNP00714
Sample ID: 761020007 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	01/22/26	1718	2932092	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	01/28/26	1133	2935604	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	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	UY1	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	UY1	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	UY1	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW370UG2-26	Project:	FRNP00714
Sample ID:	761020007	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		1.55	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	GP1	01/29/26	1626	2933376
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	01/23/26	1600	2933558
SW846 3535A	SW3535A PCB SPE Extraction	KW3	01/28/26	1332	2935470
SW846 3005A	ICP-MS 3005A PREP	ES3	01/23/26	0830	2933036
SW846 8011 PREP	8011 Prep	BM1	01/26/26	0947	2933139

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW370UG2-26	Project:	FRNP00714
Sample ID:	761020007	Client ID:	FRNP007

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

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 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"	6.57 ug/L	6.80	97	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.0959 ug/L	0.202	48	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.106 ug/L	0.202	53	(28%-114%)
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"	51.1 ug/L	50.0	102	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	53.5 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

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW370UG2-26	Project:	FRNP00714
Sample ID:	761020008	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	21-JAN-26 12:05		
Receive Date:	22-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.211	0.000670	0.00400	mg/L	1.00	1	BCD1	01/26/26	1952	2933307	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	01/24/26	0920	2933306
EPA 160	Laboratory Filtration	GF1	01/22/26	1430	2932905

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

ATTACHMENT C5

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW372UG2-26
Sample ID: 761192001
Matrix: WG
Collect Date: 22-JAN-26
Receive Date: 23-JAN-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.163	+/-0.391	0.707	+/-0.391	5.00	pCi/L			MB3	01/29/26	0838	2933718	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.769	+/-1.43	2.51	+/-1.44	50.0	pCi/L			SB3	01/28/26	0820	2933716	2
Thorium-232	U	-0.165	+/-0.432	1.25	+/-0.433		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	3.51	+/-2.96	4.70	+/-3.12	4.99	pCi/L			DH1	02/10/26	1026	2934366	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.73	+/-2.84	5.70	+/-2.84	8.00	pCi/L			JE1	01/28/26	1541	2934404	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	UM	1.59	+/-4.05	7.80	+/-4.06	15.0	pCi/L			JH2	01/30/26	1155	2934387	5
Beta		50.2	+/-10.2	9.80	+/-13.1	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	0.980	+/-125	247	+/-125	300	pCi/L			IT1	01/31/26	2016	2933926	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		74.6	+/-13.5	17.1	+/-15.9	25.0	pCi/L			BB3	02/08/26	1756	2934120	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"	2933718	95.4	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2933716	74.6	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2934366	83.1	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2934404	87.2	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2934120	98.5	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW372UG2-26
Sample ID: 761192001

Project: FRNP00714
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW373UG2-26
Sample ID: 761192003
Matrix: WG
Collect Date: 22-JAN-26
Receive Date: 23-JAN-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.217	+/-0.351	0.544	+/-0.352	5.00	pCi/L			MB3	01/29/26	0843	2933718	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.153	+/-1.49	3.07	+/-1.50	50.0	pCi/L			SB3	01/28/26	0820	2933716	2
Thorium-232	U	-0.509	+/-0.687	2.27	+/-0.688		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	2.10	+/-2.77	4.72	+/-2.83	4.99	pCi/L			DH1	02/10/26	1026	2934366	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	2.24	+/-3.23	5.54	+/-3.24	8.00	pCi/L			JE1	01/28/26	1541	2934404	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	UM	0.228	+/-2.91	6.78	+/-2.92	15.0	pCi/L			JH2	01/30/26	1155	2934387	5
Beta	U	7.47	+/-6.81	11.1	+/-6.92	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	-25.5	+/-119	245	+/-119	300	pCi/L			IT1	01/31/26	2038	2933926	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	1.21	+/-9.90	17.5	+/-9.90	25.0	pCi/L			BB3	02/08/26	1813	2934120	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"	2933718	94.7	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2933716	49.8	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2934366	81.8	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2934404	85.1	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2934120	96.7	(30%-110%)

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Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW373UG2-26
Sample ID: 761192003

Project: FRNP00714
Client ID: FRNP007

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

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

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Report Date: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW372UG2-26
Sample ID: 761192001
Matrix: WG
Collect Date: 22-JAN-26 08:41
Receive Date: 23-JAN-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00853	0.0189	ug/L	0.947	1	BM1	01/26/26	2108	2934467	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.23	0.330	1.00	mg/L		1	KB3	01/23/26	2158	2933785	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	UN	0.00500	0.00167	0.00500	mg/L	1.00	1	KLP1	01/30/26	1200	2935455	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.20	3.33	10.0	ug/L		1	JW2	02/04/26	1608	2938973	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	01/26/26	1226	2934285	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.454	0.0670	0.200	mg/L		1	CH6	01/23/26	1204	2933801	7
Fluoride		0.187	0.0330	0.100	mg/L		1					
Chloride		36.3	0.670	2.00	mg/L		10	CH6	01/23/26	1438	2933801	8
Nitrate-N		1.18	0.330	1.00	mg/L		10					
Sulfate		148	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	01/27/26	1128	2934339	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/10/26	1624	2933959	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0504	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	0.00171	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0412	0.0330	0.100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW372UG2-26 Project: FRNP00714
Sample ID: 761192001 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		22.9	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		2.12	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00270	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	UN	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	0.00588	0.00330	0.0200	mg/L	1.00	1					
Boron		1.29	0.0520	0.150	mg/L	1.00	10	RM4	02/11/26	0712	2933959	11
Calcium		70.2	0.800	2.00	mg/L	1.00	10					
Sodium		69.5	0.800	2.50	mg/L	1.00	10					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	RM4	02/11/26	0827	2933959	12
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0334	0.100	ug/L	0.00100	1	JXM	01/28/26	2234	2935471	13
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		478	2.38	10.0	mg/L			SC1	01/28/26	1302	2934489	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW372UG2-26 Project: FRNP00714
Sample ID: 761192001 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	10.4	8.95	20.0	mg/L		1	BR2	02/02/26	1728	2933957	15
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	01/29/26	1609	2936423	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-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	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	UY1	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW372UG2-26 Project: FRNP00714
Sample ID: 761192001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	JY1	0.660	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	01/29/26	1506	2936423	17
Methylene chloride	U	5.00	0.500	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	01/26/26	0750	2933958
SW846 8011 PREP	8011 Prep	LL2	01/26/26	1326	2934466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	01/26/26	1115	2934338
SW846 3535A	SW3535A PCB SPE Extraction	KW3	01/28/26	1332	2935470
SW846 9010C Distillation	SW846 9010C Prep	GP1	01/29/26	1626	2935454

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW372UG2-26	Project:	FRNP00714
Sample ID:	761192001	Client ID:	FRNP007

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

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result		Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.72	ug/L	6.77	99	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.0964	ug/L	0.201	48	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.113	ug/L	0.201	56	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.9	ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	52.6	ug/L	50.0	105	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.1	ug/L	50.0	100	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	44.0	ug/L	50.0	88	(81%-118%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.1	ug/L	50.0	96	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.3	ug/L	50.0	103	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW372UG2-26	Project:	FRNP00714
Sample ID:	761192001	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW372UG2-26	Project:	FRNP00714
Sample ID:	761192002	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	22-JAN-26 08:41		
Receive Date:	23-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0503	0.000670	0.00400	mg/L	1.00	1	RM4	02/10/26	1628	2933959	1
Chromium	J	0.00342	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	MM7	01/23/26	1130	2933733
SW846 3005A	ICP-MS 3005A PREP	ES3	01/26/26	0750	2933958

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: April 3, 2026

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW373UG2-26	Project:	FRNP00714
Sample ID:	761192003	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	22-JAN-26 09:33		
Receive Date:	23-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00852	0.0189	ug/L	0.946	1	BM1	01/26/26	2143	2934467	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.52	0.330	1.00	mg/L		1	KB3	01/23/26	2230	2933785	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	UN	0.00500	0.00167	0.00500	mg/L	1.00	1	KLP1	01/30/26	1201	2935455	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		10.8	3.33	10.0	ug/L		1	JW2	02/05/26	1143	2939928	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	UN	0.500	0.167	0.500	mg/L		1	CH6	01/26/26	1239	2934285	6
SW846 9056A Anions (5 elements) "As Received"												
Fluoride		0.173	0.0330	0.100	mg/L		1	CH6	01/23/26	1234	2933801	7
Bromide	J	0.476	0.268	0.800	mg/L		4	CH6	01/23/26	1508	2933801	8
Chloride		29.9	0.268	0.800	mg/L		4					
Nitrate-N		0.539	0.132	0.400	mg/L		4					
Sulfate		221	2.66	8.00	mg/L		20	CH6	01/23/26	1742	2933801	9
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	01/27/26	1130	2934339	10
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	RM4	02/10/26	1631	2933959	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		0.0283	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	0.000937	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00138	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0600	0.0330	0.100	mg/L	1.00	1					

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

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW373UG2-26 Project: FRNP00714
Sample ID: 761192003 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		31.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0974	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00165	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.97	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	UN	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	J	0.000108	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00378	0.00330	0.0200	mg/L	1.00	1					
Boron		2.73	0.130	0.375	mg/L	1.00	25	RM4	02/11/26	0715	2933959	12
Calcium		88.5	2.00	5.00	mg/L	1.00	25					
Sodium		72.6	2.00	6.25	mg/L	1.00	25					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	RM4	02/11/26	0813	2933959	13
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0986	0.0328	0.0986	ug/L	0.000986	1	JXM	01/28/26	2250	2935471	14
Aroclor-1221	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Aroclor-1232	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Aroclor-1242	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Aroclor-1248	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Aroclor-1254	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Aroclor-1260	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Aroclor-1268	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Aroclor-Total	U	0.0986	0.0328	0.0986	ug/L	0.000986	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		666	2.38	10.0	mg/L			SC1	01/28/26	1302	2934489	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW373UG2-26 Project: FRNP00714
Sample ID: 761192003 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	02/02/26	1728	2933957	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	01/29/26	1542	2936423	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-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	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	UY1	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-02)

Client Sample ID: MW373UG2-26 Project: FRNP00714
Sample ID: 761192003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	Y1	2.39	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1	JM6	01/29/26	1532	2936423	18
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3535A	SW3535A PCB SPE Extraction	KW3	01/28/26	1332	2935470
SW846 9010C Distillation	SW846 9010C Prep	GP1	01/29/26	1626	2935454
SW846 3005A	ICP-MS 3005A PREP	ES3	01/26/26	0750	2933958
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	01/26/26	1115	2934338
SW846 8011 PREP	8011 Prep	LL2	01/26/26	1326	2934466

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW373UG2-26	Project:	FRNP00714
Sample ID:	761192003	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 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	
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"	7.16 ug/L	6.76	106	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.100 ug/L	0.197	51	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.104 ug/L	0.197	53	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	52.8 ug/L	50.0	106	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.1 ug/L	50.0	100	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	44.6 ug/L	50.0	89	(81%-118%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	47.6 ug/L	50.0	95	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.0 ug/L	50.0	100	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW373UG2-26	Project:	FRNP00714
Sample ID:	761192003	Client ID:	FRNP007

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

Column headers are defined as follows:

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

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-02)

Client Sample ID:	MW373UG2-26	Project:	FRNP00714
Sample ID:	761192004	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	22-JAN-26 09:33		
Receive Date:	23-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0289	0.000670	0.00400	mg/L	1.00	1	RM4	02/10/26	1653	2933959	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.000106	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	ES3	01/26/26	0750	2933958
EPA 160	Laboratory Filtration	MM7	01/23/26	1130	2933733

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

APPENDIX D

STATISTICAL ANALYSES AND QUALIFICATION STATEMENT

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GROUNDWATER STATISTICAL COMMENTS

Introduction

The statistical analyses conducted on the first quarter 2026 groundwater data collected from the C-746-S&T Landfills monitoring wells (MWs) were performed in accordance with Permit GSTR0003, Standard Requirement 3, using the U.S. Environmental Protection Agency (EPA) guidance document, *EPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (1989).

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 first quarter 2026 data used to conduct the statistical analyses were collected in January and February 2026. The statistical analyses for this report first used data from the initial 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 compliance well that 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. For parameters with no established MCL and for 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 for pH. 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	Groundwater Unit
MW220	BG	URGA
MW221	SG	URGA
MW222	SG	URGA
MW223	SG	URGA
MW224	SG	URGA
MW369	TW	URGA
MW370	TW	LRGA
MW372	TW	URGA
MW373	TW	LRGA
MW384	SG	URGA
MW385	SG	LRGA
MW386[a]	SG	UCRS
MW387	TW	URGA
MW388	TW	LRGA
MW389[a,b]	TW	UCRS
MW390[a,b]	TW	UCRS
MW391	TW	URGA
MW392	TW	LRGA
MW393[a]	TW	UCRS
MW394	BG	URGA
MW395	BG	LRGA
MW396[a]	BG	UCRS
MW397	BG	LRGA

[a] The gradients in UCRS wells are downward. The UCRS wells identified as up-, side-, or downgradient are those wells located in the same general direction as the Regional Gravel Aquifer wells considered to be up-, side-, or downgradient.
[b] Well was dry this quarter and a groundwater sample could not be collected.
BG: upgradient or background wells
TW: compliance or test wells
SG: sidegradient wells

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. 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, 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. Statistical analyses are performed on the last eight quarters of 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 (or is below the LTL for pH), the well has a statistically significant difference in concentration compared to the 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).

    - For each parameter, the background data are used to establish a baseline. On this data set, the mean (X) and the standard deviation (S) are computed.

    - The data set is checked for normality using coefficient of variation (CV). If CV ≤ 1.0, then the data are assumed to be normally distributed. Data sets with CV > 1.0 are assumed to be log-normally distributed; for data sets with CV > 1.0, the data are log-transformed and analyzed.

    - The factor (K) for one-sided UTL with 95% minimum coverage is determined (Table 5, Appendix B; *EPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance*, 1989) based on the number of background data points.

    - The one-sided UTL is calculated using the following equation:

$$TL = X + (K \times S)$$

2. Each observation from downgradient wells is compared to the calculated one-sided UTL in Step 1. If an observation value exceeds the tolerance limit (or is below the LTL for pH), then there is statistically significant evidence that the well concentration exceeds the historical background.

Type of Data Used

Exhibit D.1 presents the background wells (identified as "BG"), the compliance or test wells (identified as "TW"), and the sidegradient wells (identified as "SG") for the C-746-S&T Residential and Inert Landfills. Exhibit D.2 presents the parameters from the available data set for which a statistical test was performed using the one-sided tolerance interval.

Exhibits D.3, D.4, and D.5 list the number of analyses (observations), nondetects (censored observations), and detects (uncensored observations) by parameter in the UCRS, the URGA, and the LRGA, respectively. Those parameters displayed with bold-face type indicate the one-sided tolerance interval statistical test was performed. The data presented in Exhibits D.3, D.4, and D.5 were collected during the current quarter, first quarter 2026. The observations are representative of the current quarter data. Historical background data are presented in Attachment D1. The sampling dates associated with background data are listed next to the result in Attachment D1. 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. A result has been considered a nondetect if it has a "U" validation code.

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[1] For pH, two-sided tolerance limits (upper and lower) were calculated with an adjusted K factor using the following equations.

$$UTL = X + (K \times S)$$
$$LTL = X - (K \times S)$$

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

Parameters
Aluminum
Beta Activity
Boron
Bromide
Calcium
Chemical Oxygen Demand (COD)
Chloride
cis-1,2-Dichloroethene
Cobalt
Conductivity
Copper
Dissolved Oxygen
Dissolved Solids
Iodide
Iron
Magnesium
Manganese
Methylene Chloride
Molybdenum
Nickel
Oxidation-Reduction Potential[a]
pH[b]
Potassium
Sodium
Sulfate
Technetium-99
Total Organic Carbon (TOC)
Total Organic Halides (TOX)
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	3	3	0	No
1,1,2,2-Tetrachloroethane	3	3	0	No
1,1,2-Trichloroethane	3	3	0	No
1,1-Dichloroethane	3	3	0	No
1,2,3-Trichloropropane	3	3	0	No
1,2-Dibromo-3-chloropropane	3	3	0	No
1,2-Dibromoethane	3	3	0	No
1,2-Dichlorobenzene	3	3	0	No
1,2-Dichloropropane	3	3	0	No
2-Butanone	3	3	0	No
2-Hexanone	3	3	0	No
4-Methyl-2-pentanone	3	3	0	No
Acetone	3	3	0	No
Acrolein	3	3	0	No
Acrylonitrile	3	3	0	No
Aluminum	**3**	**2**	**1**	**Yes**
Antimony	3	3	0	No
Beryllium	3	3	0	No
Boron	**3**	**0**	**3**	**Yes**
Bromide	**3**	**2**	**1**	**Yes**
Bromochloromethane	3	3	0	No
Bromodichloromethane	3	3	0	No
Bromoform	3	3	0	No
Bromomethane	3	3	0	No
Calcium	**3**	**0**	**3**	**Yes**
Carbon disulfide	3	3	0	No
COD	**3**	**1**	**2**	**Yes**
Chloride	**3**	**0**	**3**	**Yes**
Chlorobenzene	3	3	0	No
Chloroethane	3	3	0	No
Chloroform	3	3	0	No
Chloromethane	3	3	0	No
cis-1,2-Dichloroethene	3	3	0	No
cis-1,3-Dichloropropene	3	3	0	No
Cobalt	**3**	**2**	**1**	**Yes**
Conductivity	**3**	**0**	**3**	**Yes**
Copper	**3**	**0**	**3**	**Yes**
Cyanide	3	3	0	No
Dibromochloromethane	3	3	0	No
Dibromomethane	3	3	0	No
Dissolved Oxygen	**3**	**0**	**3**	**Yes**
Dissolved Solids	**3**	**0**	**3**	**Yes**
Ethylbenzene	3	3	0	No
Iodide	**3**	**2**	**1**	**Yes**
Iodomethane	3	3	0	No

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

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
Iron	**3**	**0**	**3**	**Yes**
Magnesium	**3**	**0**	**3**	**Yes**
Manganese	**3**	**0**	**3**	**Yes**
Methylene chloride	**3**	**2**	**1**	**Yes**
Molybdenum	**3**	**0**	**3**	**Yes**
Nickel	**3**	**1**	**2**	**Yes**
Oxidation-Reduction Potential	**3**	**0**	**3**	**Yes**
pH	**3**	**0**	**3**	**Yes**
Potassium	**3**	**0**	**3**	**Yes**
Radium-226	3	3	0	No
Rhodium	3	3	0	No
Sodium	**3**	**0**	**3**	**Yes**
Styrene	3	3	0	No
Sulfate	**3**	**0**	**3**	**Yes**
Tantalum	3	3	0	No
Technetium-99	3	3	0	No
Tetrachloroethene	3	3	0	No
Thallium	3	3	0	No
Thorium-230	3	3	0	No
Toluene	3	3	0	No
TOC	**3**	**0**	**3**	**Yes**
TOX	**3**	**0**	**3**	**Yes**
trans-1,2-Dichloroethene	3	3	0	No
trans-1,3-Dichloropropene	3	3	0	No
trans-1,4-Dichloro-2-Butene	3	3	0	No
Trichlorofluoromethane	3	3	0	No
Vanadium	3	3	0	No
Vinyl Acetate	3	3	0	No
Zinc	**3**	**1**	**2**	**Yes**

Bold 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	11	11	0	No
1,1,2,2-Tetrachloroethane	11	11	0	No
1,1,2-Trichloroethane	11	11	0	No
1,1-Dichloroethane	11	11	0	No
1,2,3-Trichloropropane	11	11	0	No
1,2-Dibromo-3-chloropropane	11	11	0	No
1,2-Dibromoethane	11	11	0	No
1,2-Dichlorobenzene	11	11	0	No
1,2-Dichloropropane	11	11	0	No
2-Butanone	11	11	0	No
2-Hexanone	11	11	0	No
4-Methyl-2-pentanone	11	11	0	No
Acetone	11	11	0	No
Acrolein	11	11	0	No
Acrylonitrile	11	11	0	No
Aluminum	**11**	**7**	**4**	**Yes**
Antimony	11	11	0	No
Beryllium	11	11	0	No
Beta activity	**11**	**6**	**5**	**Yes**
Boron	**11**	**0**	**11**	**Yes**
Bromide	**11**	**0**	**11**	**Yes**
Bromochloromethane	11	11	0	No
Bromodichloromethane	11	11	0	No
Bromoform	11	11	0	No
Bromomethane	11	11	0	No
Calcium	**11**	**0**	**11**	**Yes**
Carbon disulfide	11	11	0	No
COD	**11**	**10**	**1**	**Yes**
Chloride	**11**	**0**	**11**	**Yes**
Chlorobenzene	11	11	0	No
Chloroethane	11	11	0	No
Chloroform	11	11	0	No
Chloromethane	11	11	0	No
cis-1,2-Dichloroethene	11	11	0	No
cis-1,3-Dichloropropene	11	11	0	No
Cobalt	**11**	**8**	**3**	**Yes**
Conductivity	**11**	**0**	**11**	**Yes**
Copper	**11**	**0**	**11**	**Yes**
Cyanide	11	11	0	No
Dibromochloromethane	11	11	0	No
Dibromomethane	11	11	0	No
Dissolved Oxygen	**11**	**0**	**11**	**Yes**
Dissolved Solids	**11**	**0**	**11**	**Yes**
Ethylbenzene	11	11	0	No
Iodide	11	11	0	No

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

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
Iodomethane	11	11	0	No
Iron	**11**	**4**	**7**	**Yes**
Magnesium	**11**	**0**	**11**	**Yes**
Manganese	**11**	**3**	**8**	**Yes**
Methylene chloride	**11**	**5**	**6**	**Yes**
Molybdenum	**11**	**7**	**4**	**Yes**
Nickel	**11**	**3**	**8**	**Yes**
Oxidation-Reduction Potential	**11**	**0**	**11**	**Yes**
pH	**11**	**0**	**11**	**Yes**
Potassium	**11**	**0**	**11**	**Yes**
Radium-226	11	11	0	No
Rhodium	11	11	0	No
Sodium	**11**	**0**	**11**	**Yes**
Styrene	11	11	0	No
Sulfate	**11**	**0**	**11**	**Yes**
Tantalum	11	11	0	No
Technetium-99	**11**	**7**	**4**	**Yes**
Tetrachloroethene	11	11	0	No
Thallium	11	11	0	No
Thorium-230	11	11	0	No
Toluene	11	11	0	No
TOC	**11**	**0**	**11**	**Yes**
TOX	**11**	**1**	**10**	**Yes**
trans-1,2-Dichloroethene	11	11	0	No
trans-1,3-Dichloropropene	11	11	0	No
trans-1,4-Dichloro-2-Butene	11	11	0	No
Trichlorofluoromethane	11	11	0	No
Vanadium	11	11	0	No
Vinyl Acetate	11	11	0	No
Zinc	**11**	**1**	**10**	**Yes**

Bold 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	7	7	0	No
1,1,2,2-Tetrachloroethane	7	7	0	No
1,1,2-Trichloroethane	7	7	0	No
1,1-Dichloroethane	7	7	0	No
1,2,3-Trichloropropane	7	7	0	No
1,2-Dibromo-3-chloropropane	7	7	0	No
1,2-Dibromoethane	7	7	0	No
1,2-Dichlorobenzene	7	7	0	No
1,2-Dichloropropane	7	7	0	No
2-Butanone	7	7	0	No
2-Hexanone	7	7	0	No
4-Methyl-2-pentanone	7	7	0	No
Acetone	7	7	0	No
Acrolein	7	7	0	No
Acrylonitrile	7	7	0	No
Aluminum	**7**	**4**	**3**	**Yes**
Antimony	7	7	0	No
Beryllium	7	7	0	No
Boron	**7**	**0**	**7**	**Yes**
Bromide	**7**	**1**	**6**	**Yes**
Bromochloromethane	7	7	0	No
Bromodichloromethane	7	7	0	No
Bromoform	7	7	0	No
Bromomethane	7	7	0	No
Calcium	**7**	**0**	**7**	**Yes**
Carbon disulfide	7	7	0	No
COD	**7**	**5**	**2**	**Yes**
Chloride	**7**	**0**	**7**	**Yes**
Chlorobenzene	7	7	0	No
Chloroethane	7	7	0	No
Chloroform	7	7	0	No
Chloromethane	7	7	0	No
***cis*-1,2-Dichloroethene**	**7**	**6**	**1**	**Yes**
cis-1,3-Dichloropropene	7	7	0	No
Cobalt	**7**	**5**	**2**	**Yes**
Conductivity	**7**	**0**	**7**	**Yes**
Copper	**7**	**0**	**7**	**Yes**
Cyanide	6	6	0	No
Dibromochloromethane	7	7	0	No
Dibromomethane	7	7	0	No
Dissolved Oxygen	**7**	**0**	**7**	**Yes**
Dissolved Solids	**7**	**0**	**7**	**Yes**
Ethylbenzene	7	7	0	No
Iodide	7	7	0	No
Iodomethane	7	7	0	No
Iron	**7**	**1**	**6**	**Yes**
Magnesium	**7**	**0**	**7**	**Yes**
Manganese	**7**	**2**	**5**	**Yes**

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

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
Methylene chloride	**7**	**6**	**1**	**Yes**
Molybdenum	**7**	**5**	**2**	**Yes**
Nickel	**7**	**2**	**5**	**Yes**
Oxidation-Reduction Potential	**7**	**0**	**7**	**Yes**
pH	**7**	**0**	**7**	**Yes**
Potassium	**7**	**0**	**7**	**Yes**
Radium-226	7	7	0	No
Rhodium	7	7	0	No
Sodium	**7**	**0**	**7**	**Yes**
Styrene	7	7	0	No
Sulfate	**7**	**0**	**7**	**Yes**
Tantalum	7	7	0	No
Technetium-99	**7**	**5**	**2**	**Yes**
Tetrachloroethene	7	7	0	No
Thallium	7	7	0	No
Thorium-230	7	7	0	No
Toluene	7	7	0	No
TOC	**7**	**0**	**7**	**Yes**
TOX	**7**	**4**	**3**	**Yes**
trans-1,2-Dichloroethene	7	7	0	No
trans-1,3-Dichloropropene	7	7	0	No
trans-1,4-Dichloro-2-Butene	7	7	0	No
Trichlorofluoromethane	7	7	0	No
Vanadium	7	7	0	No
Vinyl Acetate	7	7	0	No
Zinc	**7**	**2**	**5**	**Yes**

Bold denotes parameters with at least one uncensored observation.

Discussion of Results from Historical Background Comparison

For the UCRS, URGA, and LRGA, the concentrations of this quarter were compared to the results of the one-sided tolerance interval tests that were calculated using historical background and presented in Attachment D1. For the UCRS, URGA, and LRGA, the test was applied to 26, 27, and 27 parameters, respectively, including those listed in bold print in Exhibits D.3, D.4, and D.5. A summary of exceedances when compared to statistically derived historical background by well number is shown in Exhibit D.6.

UCRS

This quarter's results identified exceedances of historical background UTL for oxidation-reduction potential.

URGA

This quarter's results identified exceedances of historical background UTL for beta activity, calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential, sodium, sulfate, and technetium-99.

LRGA

This quarter's results identified exceedances of historical background UTL for calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential, sodium, sulfate, and technetium-99.

Statistical Summary

Summaries of the results of the statistical tests conducted on data obtained from wells in the UCRS, the URGA, and in the LRGA 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
MW386: Oxidation-reduction potential*	**MW220:** Oxidation-reduction potential*	**MW370:** Oxidation-reduction potential* and sulfate
MW393: Oxidation-reduction potential*	**MW221:** Oxidation-reduction potential*	**MW373:** Calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential,* sodium, and sulfate
MW396: Oxidation-reduction potential*	**MW222:** Oxidation-reduction potential*	**MW385:** Oxidation-reduction potential,* sulfate, and technetium-99
	MW223: Oxidation-reduction potential*	**MW388:** Oxidation-reduction potential* and sulfate
	MW224: Oxidation-reduction potential* and sodium	**MW392:** Oxidation-reduction potential*
	MW369: Technetium-99	**MW395:** Oxidation-reduction potential*
	MW372: Beta activity, calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential,* sodium, sulfate, and technetium-99	**MW397:** Oxidation-reduction potential*
	MW384: Oxidation-reduction potential,* sulfate, and technetium-99	
	MW387: Beta activity, calcium, dissolved solids, magnesium, oxidation-reduction potential,* sulfate, and technetium-99	
	MW391: Oxidation-reduction potential*	
	MW394: 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
Aluminum	Tolerance Interval	0.57	No exceedance of statistically derived historical background concentration.
Boron	Tolerance Interval	1.28	No exceedance of statistically derived historical background concentration.
Bromide	Tolerance Interval	0.24	No exceedance of statistically derived historical background concentration.
Calcium	Tolerance Interval	0.20	No exceedance of statistically derived historical background concentration.
COD	Tolerance Interval	0.02	No exceedance of statistically derived historical background concentration.
Chloride	Tolerance Interval	0.05	No exceedance of statistically derived historical background concentration.
Cobalt	Tolerance Interval	1.34	No exceedance of statistically derived historical background concentration.
Conductivity	Tolerance Interval	0.12	No exceedance of statistically derived historical background concentration.
Copper	Tolerance Interval	0.48	No exceedance of statistically derived historical background concentration.
Dissolved Oxygen	Tolerance Interval	1.20	No exceedance of statistically derived historical background concentration.
Dissolved Solids	Tolerance Interval	0.19	No exceedance of statistically derived historical background concentration.
Iodide	Tolerance Interval	0.13	No exceedance of statistically derived historical background concentration.
Iron	Tolerance Interval	0.48	No exceedance of statistically derived historical background concentration.
Magnesium	Tolerance Interval	0.20	No exceedance of statistically derived historical background concentration.
Manganese	Tolerance Interval	0.46	No exceedance of statistically derived historical background concentration.
Methylene Chloride	Tolerance Interval	0.56	No exceedance of statistically derived historical background concentration.
Molybdenum	Tolerance Interval	1.51	No exceedance of statistically derived historical background concentration.
Nickel	Tolerance Interval	1.27	No exceedance of statistically derived historical background concentration.
Oxidation-Reduction Potential[b]	Tolerance Interval	4.77	Current results exceed statistically derived historical background concentration in MW386, MW393, and MW396.
pH	Tolerance Interval	0.05	No exceedance of statistically derived historical background concentration.
Potassium	Tolerance Interval	0.28	No exceedance of statistically derived historical background concentration.
Sodium	Tolerance Interval	0.30	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
Sulfate	Tolerance Interval	0.40	No exceedance of statistically derived historical background concentration.
TOC	Tolerance Interval	0.47	No exceedance of statistically derived historical background concentration.
TOX	Tolerance Interval	0.38	No exceedance of statistically derived historical background concentration.
Zinc	Tolerance Interval	0.79	No exceedance of statistically derived historical background concentration.

CV: coefficient of variation
[a] If CV > 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	0.28	No exceedance of statistically derived historical background concentration.
Beta Activity[b]	Tolerance Interval	0.97	Current results exceed statistically derived historical background concentrations in MW372 and MW387.
Boron	Tolerance Interval	1.45	No exceedance of statistically derived historical background concentration.
Bromide	Tolerance Interval	0.00	No exceedance of statistically derived historical background concentration.
Calcium	Tolerance Interval	0.17	Current results exceed statistically derived historical background concentrations in MW372 and MW387.
COD	Tolerance Interval	0.00	No exceedance of statistically derived historical background concentration.
Chloride	Tolerance Interval	0.23	No exceedance of statistically derived historical background concentration.
Cobalt	Tolerance Interval	2.44	No exceedance of statistically derived historical background concentration.
Conductivity	Tolerance Interval	0.28	Current results exceed statistically derived historical background concentration in MW372.
Copper	Tolerance Interval	0.43	No exceedance of statistically derived historical background concentration.
Dissolved Oxygen	Tolerance Interval	0.50	No exceedance of statistically derived historical background concentration.
Dissolved Solids	Tolerance Interval	0.12	Current results exceed statistically derived historical background concentration in MW372 and MW387.
Iron	Tolerance Interval	1.17	No exceedance of statistically derived historical background concentration.
Magnesium	Tolerance Interval	0.16	Current results exceed statistically derived historical background concentration in MW372 and MW387.
Manganese	Tolerance Interval	2.16	No exceedance of statistically derived historical background concentration.
Methylene Chloride	Tolerance Interval	0.16	No exceedance of statistically derived historical background concentration.
Molybdenum	Tolerance Interval	1.26	No exceedance of statistically derived historical background concentration.
Nickel	Tolerance Interval	1.79	No exceedance of statistically derived historical background concentration.
Oxidation-Reduction Potential[c]	Tolerance Interval	0.48	Current results exceed statistically derived historical background concentration in MW220, MW221, MW222, MW223, MW224, MW372, MW384, MW387, MW391, and MW394.
pH	Tolerance Interval	0.05	No exceedance of statistically derived historical background concentration.
Potassium	Tolerance Interval	1.40	No exceedance of statistically derived historical background concentration.
Sodium	Tolerance Interval	0.24	Current results exceed statistically derived historical background concentration in MW224 and MW372.

Exhibit D.8. Test Summaries for Qualified Parameters for Historical Background—URGA (Continued)

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Sulfate	Tolerance Interval	0.25	Current results exceed statistically derived historical background concentration in MW372, MW384, and MW387.
Technetium-99	Tolerance Interval	0.99	Current results exceed statistically derived historical background concentration in MW369, MW372, MW384, and MW387.
TOC	Tolerance Interval	0.49	No exceedance of statistically derived historical background concentration.
TOX	Tolerance Interval	2.57	No exceedance of statistically derived historical background concentration.
Zinc	Tolerance Interval	0.72	No exceedance of statistically derived historical background concentration.

CV: coefficient of variation
[a] If CV > 1.0, used log-transformed data.
[b] Tolerance interval was calculated based on an MCL exceedance.
[c] 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	0.86	No exceedance of statistically derived historical background concentration.
Boron	Tolerance Interval	1.24	No exceedance of statistically derived historical background concentration.
Bromide	Tolerance Interval	0.00	No exceedance of statistically derived historical background concentration.
Calcium	Tolerance Interval	0.50	Current results exceed statistically derived historical background concentration in MW373.
COD	Tolerance Interval	0.04	No exceedance of statistically derived historical background concentration.
Chloride	Tolerance Interval	0.22	No exceedance of statistically derived historical background concentration.
cis-1,2-Dichloroethene	Tolerance Interval	0.00	No exceedance of statistically derived historical background concentration.
Cobalt	Tolerance Interval	1.51	No exceedance of statistically derived historical background concentration.
Conductivity	Tolerance Interval	0.14	Current results exceed statistically derived historical background concentration in MW373.
Copper	Tolerance Interval	0.47	No exceedance of statistically derived historical background concentration.
Dissolved Oxygen	Tolerance Interval	0.52	No exceedance of statistically derived historical background concentration.
Dissolved Solids	Tolerance Interval	0.16	Current results exceed statistically derived historical background concentration in MW373.
Iron	Tolerance Interval	1.29	No exceedance of statistically derived historical background concentration.
Magnesium	Tolerance Interval	0.51	Current results exceed statistically derived historical background concentration in MW373.
Manganese	Tolerance Interval	1.49	No exceedance of statistically derived historical background concentration.
Methylene Chloride	Tolerance Interval	0.55	No exceedance of statistically derived historical background concentration.
Molybdenum	Tolerance Interval	1.45	No exceedance of statistically derived historical background concentration.
Nickel	Tolerance Interval	1.09	No exceedance of statistically derived historical background concentration.
Oxidation-Reduction Potential[b]	Tolerance Interval	0.33	Current results exceed statistically derived historical background concentration in MW370, MW373, MW385, MW388, MW392, MW395, and MW397.
pH	Tolerance Interval	0.04	No exceedance of statistically derived historical background concentration.
Potassium	Tolerance Interval	0.40	No exceedance of statistically derived historical background concentration.

Exhibit D.9. Test Summaries for Qualified Parameters for Historical Background—LRGA (Continued)

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Sodium	Tolerance Interval	0.47	Current results exceed statistically derived historical background concentration in MW373.
Sulfate	Tolerance Interval	0.20	Current results exceed statistically derived historical background concentration in MW370, MW373, MW385, and MW388.
Technetium-99	Tolerance Interval	0.80	Current results exceed statistically derived historical background concentration in MW385.
TOC	Tolerance Interval	0.55	No exceedance of statistically derived historical background concentration.
TOX	Tolerance Interval	0.59	No exceedance of statistically derived historical background concentration.
Zinc	Tolerance Interval	0.76	No exceedance of statistically derived historical background concentration.

CV: coefficient of variation
[a] If CV > 1.0, used log-transformed data.
[b] Oxidation-reduction potential calibrated as Eh.

Discussion of Results from Current Background Comparison

For concentrations in wells in the UCRS, URGA, and LRGA that exceeded the tolerance limit test using historical background, the concentrations were compared to the one-sided tolerance limit calculated using the most recent eight quarters of data and are presented in Attachment D2. For the UCRS, URGA, and LRGA, the test was applied to 1, 9, and 8 parameters, respectively, because these parameter concentrations exceeded the historical background tolerance limit.

For downgradient wells only, a summary of instances where concentrations exceeded the tolerance limit calculated using current background data is shown in Exhibit D.10.

UCRS

Because gradients in the UCRS are downward (vertical), there are no hydrogeologically downgradient UCRS wells. There were no constituents that exceeded the current background UTL in this reporting period.

URGA

This quarter's results identified current background exceedances in downgradient wells for beta activity, calcium, conductivity, dissolved solids, magnesium, sodium, sulfate, and technetium-99.

LRGA

This quarter's results identified current background exceedances in downgradient wells for calcium, conductivity, dissolved solids, magnesium, and sulfate.

Statistical Summary

Summaries of the statistical tests conducted on data obtained from wells in the UCRS, the URGA, and the LRGA are presented in Exhibit D.11, Exhibit D.12, and Exhibit D.13, respectively.

Exhibit D.10. Summary of Exceedances (Downgradient Wells) of the Tolerance Limit Calculated Using Current Background Concentrations

URGA	LRGA
MW369: Technetium-99	**MW370:** Sulfate
MW372: Beta activity, calcium, conductivity, dissolved solids, magnesium, sodium, sulfate, and technetium-99	**MW373:** Calcium, conductivity, dissolved solids, magnesium, and sulfate
MW387: Beta activity, calcium, magnesium, sulfate, and technetium-99	**MW388: S**ulfate

Exhibit D.11. Test Summaries for Qualified Parameters for Current Background—UCRS

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Oxidation-Reduction Potential[b]	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.

CV: coefficient of variation
[a] If CV > 1.0, used log-transformed data.
[b] Oxidation-reduction potential calibrated as Eh.

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

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Beta Activity	Tolerance Interval	0.74	MW372 and MW387 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Calcium	Tolerance Interval	0.11	MW372 and MW387 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Conductivity	Tolerance Interval	0.09	MW372 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Dissolved Solids	Tolerance Interval	0.28	MW372 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Magnesium	Tolerance Interval	0.12	MW372 and MW387 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Oxidation-Reduction Potential[b]	Tolerance Interval	0.13	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Sodium	Tolerance Interval	0.14	MW224 and MW372 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Sulfate	Tolerance Interval	0.26	MW372 and MW387 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Technetium-99	Tolerance Interval	0.96	MW369, MW372, MW384, and MW387 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.

CV: coefficient of variation
[a] If CV > 1.0, used log-transformed data.
[b] Oxidation-reduction potential calibrated as Eh.

Exhibit D.13. Test Summaries for Qualified Parameters for Current Background—LRGA

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Calcium	Tolerance Interval	0.22	MW373 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Conductivity	Tolerance Interval	0.11	MW373 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Dissolved Solids	Tolerance Interval	0.12	MW373 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Magnesium	Tolerance Interval	0.23	MW373 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Oxidation-Reduction Potential[b]	Tolerance Interval	0.15	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.
Sodium	Tolerance Interval	0.47	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	0.03	MW370, MW373, MW385, and MW388 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Technetium-99	Tolerance Interval	0.84	MW385 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.

[a] If CV > 1.0, used log-transformed data.
[b] 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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Aluminum — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.320	**S=** 0.182	**CV(1)=** 0.567	**K factor**=** 3.188	**TL(1)=** 9.00E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.259	**S=** 0.503	**CV(2)=** -0.400	**K factor**=** 3.188	**TL(2)=** 3.45E-01	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	3.93E-01	-9.34E-01
9/16/2002	2.00E-01	-1.61E+00
10/16/2002	2.00E-01	-1.61E+00
1/13/2003	5.01E-01	-6.91E-01
4/8/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/14/2004	6.68E-01	-4.03E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW393	Downgradient	Yes	4.18E-02	NO	-3.17E+00	N/A
MW396	Upgradient	No	5.00E-02	N/A	-3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Boron — **UNITS: mg/L** — **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.650	**S=** 0.833	**CV(1)=** 1.282	**K factor**=** 3.188	**TL(1)=** 3.31E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.034	**S=** 1.066	**CV(2)=** -1.031	**K factor**=** 3.188	**TL(2)=** 2.36E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/16/2002	2.00E-01	-1.61E+00
1/13/2003	2.00E-01	-1.61E+00
4/8/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/14/2004	2.00E-01	-1.61E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.50E-02	N/A	-4.20E+00	NO
MW393	Downgradient	Yes	1.90E-02	N/A	-3.96E+00	NO
MW396	Upgradient	Yes	9.23E-03	N/A	-4.69E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Bromide — **UNITS: mg/L** — **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.388	**S=** 0.327	**CV(1)=** 0.236	**K factor**=** 3.188	**TL(1)=** 2.43E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.301	**S=** 0.252	**CV(2)=** 0.838	**K factor**=** 3.188	**TL(2)=** 1.10E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW396

Date Collected	Result	LN(Result)
8/13/2002	1.50E+00	4.05E-01
9/16/2002	1.60E+00	4.70E-01
10/16/2002	1.60E+00	4.70E-01
1/13/2003	1.00E+00	0.00E+00
4/8/2003	1.00E+00	0.00E+00
7/16/2003	1.00E+00	0.00E+00
10/14/2003	1.70E+00	5.31E-01
1/14/2004	1.70E+00	5.31E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW393	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW396	Upgradient	Yes	7.50E-01	NO	-2.88E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Calcium — **UNITS: mg/L** — **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 41.825	**S=** 8.445	**CV(1)=** 0.202	**K factor**=** 3.188	**TL(1)=** 6.87E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.711	**S=** 0.241	**CV(2)=** 0.065	**K factor**=** 3.188	**TL(2)=** 4.48E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	3.84E+01	3.65E+00
9/16/2002	4.29E+01	3.76E+00
10/16/2002	4.02E+01	3.69E+00
1/13/2003	4.67E+01	3.84E+00
4/8/2003	4.98E+01	3.91E+00
7/16/2003	4.33E+01	3.77E+00
10/14/2003	4.97E+01	3.91E+00
1/14/2004	2.36E+01	3.16E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.87E+01	NO	2.93E+00	N/A
MW393	Downgradient	Yes	1.59E+01	NO	2.77E+00	N/A
MW396	Upgradient	Yes	3.14E+01	NO	3.45E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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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(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 35.375	**S=** 0.744	**CV(1)=** 0.021	**K factor**=** 3.188	**TL(1)=** 3.77E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.566	**S=** 0.021	**CV(2)=** 0.006	**K factor**=** 3.188	**TL(2)=** 3.63E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	3.60E+01	3.58E+00
9/16/2002	3.50E+01	3.56E+00
10/16/2002	3.70E+01	3.61E+00
1/13/2003	3.50E+01	3.56E+00
4/8/2003	3.50E+01	3.56E+00
7/16/2003	3.50E+01	3.56E+00
10/14/2003	3.50E+01	3.56E+00
1/14/2004	3.50E+01	3.56E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.14E+01	NO	2.43E+00	N/A
MW393	Downgradient	Yes	1.29E+01	NO	2.56E+00	N/A
MW396	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Chloride — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 101.725	**S=** 5.245	**CV(1)=** 0.052	**K factor**=** 3.188	**TL(1)=** 1.18E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 4.621	**S=** 0.053	**CV(2)=** 0.011	**K factor**=** 3.188	**TL(2)=** 4.79E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	9.16E+01	4.52E+00
9/16/2002	9.83E+01	4.59E+00
10/16/2002	1.01E+02	4.62E+00
1/13/2003	1.08E+02	4.68E+00
4/8/2003	1.01E+02	4.61E+00
7/16/2003	1.03E+02	4.63E+00
10/14/2003	1.07E+02	4.67E+00
1/14/2004	1.04E+02	4.65E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	9.09E+00	NO	2.21E+00	N/A
MW393	Downgradient	Yes	8.49E+00	NO	2.14E+00	N/A
MW396	Upgradient	Yes	4.92E+01	NO	3.90E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Cobalt — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.008	**S=** 0.011	**CV(1)=** 1.340	**K factor**=** 3.188	**TL(1)=** 4.18E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -5.645	**S=** 1.339	**CV(2)=** -0.237	**K factor**=** 3.188	**TL(2)=** -1.38E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/16/2002	1.00E-03	-6.91E+00
1/13/2003	3.24E-03	-5.73E+00
4/8/2003	4.36E-03	-5.44E+00
7/16/2003	2.76E-03	-5.89E+00
10/14/2003	1.00E-03	-6.91E+00
1/14/2004	1.00E-03	-6.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	9.46E-03	N/A	-4.66E+00	NO
MW393	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW396	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Conductivity — UNITS: umho/cm — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 922.500	**S=** 107.616	**CV(1)=** 0.117	**K factor**=** 3.188	**TL(1)=** 1.27E+03	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.822	**S=** 0.111	**CV(2)=** 0.016	**K factor**=** 3.188	**TL(2)=** 7.17E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	7.84E+02	6.66E+00
9/30/2002	8.71E+02	6.77E+00
10/16/2002	8.68E+02	6.77E+00
1/13/2003	9.12E+02	6.82E+00
4/8/2003	9.42E+02	6.85E+00
7/16/2003	9.10E+02	6.81E+00
10/14/2003	9.35E+02	6.84E+00
1/14/2004	1.16E+03	7.05E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	5.76E+02	NO	6.36E+00	N/A
MW393	Downgradient	Yes	3.90E+02	NO	5.97E+00	N/A
MW396	Upgradient	Yes	6.56E+02	NO	6.49E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Copper — **UNITS: mg/L** — **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.028	**S=** 0.014	**CV(1)=** 0.481	**K factor**=** 3.188	**TL(1)=** 7.16E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.650	**S=** 0.414	**CV(2)=** -0.113	**K factor**=** 3.188	**TL(2)=** -2.33E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/16/2002	2.60E-02	-3.65E+00
1/13/2003	2.00E-02	-3.91E+00
4/8/2003	2.00E-02	-3.91E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/14/2004	2.00E-02	-3.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.22E-03	NO	-6.71E+00	N/A
MW393	Downgradient	Yes	2.01E-03	NO	-6.21E+00	N/A
MW396	Upgradient	Yes	1.36E-03	NO	-6.60E+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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Dissolved Oxygen — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.395	**S=** 1.677	**CV(1)=** 1.202	**K factor**=** 3.188	**TL(1)=** 6.74E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.043	**S=** 0.814	**CV(2)=** -18.867	**K factor**=** 3.188	**TL(2)=** 2.55E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW396

Date Collected	Result	LN(Result)
8/13/2002	5.45E+00	1.70E+00
9/16/2002	4.00E-01	-9.16E-01
10/16/2002	5.40E-01	-6.16E-01
1/13/2003	7.20E-01	-3.29E-01
4/8/2003	6.90E-01	-3.71E-01
7/16/2003	1.10E+00	9.53E-02
10/14/2003	7.10E-01	-3.42E-01
1/14/2004	1.55E+00	4.38E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.59E+00	N/A	4.64E-01	NO
MW393	Downgradient	Yes	2.02E+00	N/A	7.03E-01	NO
MW396	Upgradient	Yes	2.40E+00	N/A	8.75E-01	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Dissolved Solids — **UNITS: mg/L** — **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 550.375	**S=** 104.330	**CV(1)=** 0.190	**K factor**=** 3.188	**TL(1)=** 8.83E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.298	**S=** 0.162	**CV(2)=** 0.026	**K factor**=** 3.188	**TL(2)=** 6.82E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	5.02E+02	6.22E+00
9/16/2002	5.06E+02	6.23E+00
10/16/2002	5.43E+02	6.30E+00
1/13/2003	5.21E+02	6.26E+00
4/8/2003	5.04E+02	6.22E+00
7/16/2003	5.32E+02	6.28E+00
10/14/2003	4.90E+02	6.19E+00
1/14/2004	8.05E+02	6.69E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	3.60E+02	NO	5.89E+00	N/A
MW393	Downgradient	Yes	2.77E+02	NO	5.62E+00	N/A
MW396	Upgradient	Yes	3.93E+02	NO	5.97E+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

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Iodide — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 2.150	**S=** 0.283	**CV(1)=** 0.132	**K factor**=** 3.188	**TL(1)=** 3.05E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.759	**S=** 0.123	**CV(2)=** 0.162	**K factor**=** 3.188	**TL(2)=** 1.15E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/16/2002	2.00E+00	6.93E-01
1/13/2003	2.00E+00	6.93E-01
4/8/2003	2.00E+00	6.93E-01
7/16/2003	2.70E+00	9.93E-01
10/14/2003	2.50E+00	9.16E-01
1/14/2004	2.00E+00	6.93E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	No	5.00E-01	N/A	-6.93E-01	N/A
MW393	Downgradient	No	5.00E-01	N/A	-6.93E-01	N/A
MW396	Upgradient	Yes	3.10E-01	NO	-1.17E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Iron — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 7.796	**S=** 3.723	**CV(1)=** 0.478	**K factor**=** 3.188	**TL(1)=** 1.97E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.880	**S=** 0.723	**CV(2)=** 0.384	**K factor**=** 3.188	**TL(2)=** 4.18E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	1.80E+00	5.88E-01
9/16/2002	9.53E+00	2.25E+00
10/16/2002	7.43E+00	2.01E+00
1/13/2003	9.93E+00	2.30E+00
4/8/2003	1.02E+01	2.32E+00
7/16/2003	9.16E+00	2.21E+00
10/14/2003	1.19E+01	2.48E+00
1/14/2004	2.42E+00	8.84E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	5.70E-01	NO	-5.62E-01	N/A
MW393	Downgradient	Yes	2.31E+00	NO	8.37E-01	N/A
MW396	Upgradient	Yes	4.51E-02	NO	-3.10E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Magnesium — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 16.876	**S=** 3.313	**CV(1)=** 0.196	**K factor**=** 3.188	**TL(1)=** 2.74E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.804	**S=** 0.240	**CV(2)=** 0.086	**K factor**=** 3.188	**TL(2)=** 3.57E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	1.55E+01	2.74E+00
9/16/2002	1.73E+01	2.85E+00
10/16/2002	1.78E+01	2.88E+00
1/13/2003	1.92E+01	2.95E+00
4/8/2003	1.78E+01	2.88E+00
7/16/2003	1.78E+01	2.88E+00
10/14/2003	2.02E+01	3.01E+00
1/14/2004	9.41E+00	2.24E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	7.89E+00	NO	2.07E+00	N/A
MW393	Downgradient	Yes	4.19E+00	NO	1.43E+00	N/A
MW396	Upgradient	Yes	1.39E+01	NO	2.63E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Manganese — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.774	**S=** 0.353	**CV(1)=** 0.456	**K factor**=** 3.188	**TL(1)=** 1.90E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.566	**S=** 1.192	**CV(2)=** -2.105	**K factor**=** 3.188	**TL(2)=** 3.23E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	5.70E-01	-5.62E-01
9/16/2002	6.47E-01	-4.35E-01
10/16/2002	8.80E-01	-1.28E-01
1/13/2003	1.13E+00	1.24E-01
4/8/2003	9.65E-01	-3.56E-02
7/16/2003	9.83E-01	-1.71E-02
10/14/2003	9.84E-01	-1.61E-02
1/14/2004	3.14E-02	-3.46E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	7.99E-01	NO	-2.24E-01	N/A
MW393	Downgradient	Yes	6.78E-02	NO	-2.69E+00	N/A
MW396	Upgradient	Yes	1.68E-01	NO	-1.78E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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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(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 5.625	**S=** 3.159	**CV(1)=** 0.562	**K factor**=** 3.188	**TL(1)=** 1.57E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.614	**S=** 0.500	**CV(2)=** 0.310	**K factor**=** 3.188	**TL(2)=** 3.21E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	1.30E+01	2.56E+00
9/30/2002	2.00E+00	6.93E-01
10/16/2002	5.00E+00	1.61E+00
1/13/2003	5.00E+00	1.61E+00
4/8/2003	5.00E+00	1.61E+00
7/16/2003	5.00E+00	1.61E+00
10/14/2003	5.00E+00	1.61E+00
1/14/2004	5.00E+00	1.61E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	No	5.00E+00	N/A	1.61E+00	N/A
MW393	Downgradient	Yes	1.96E+00	NO	6.73E-01	N/A
MW396	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 = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Molybdenum — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.007	**S=** 0.011	**CV(1)=** 1.507	**K factor**=** 3.188	**TL(1)=** 4.22E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -5.928	**S=** 1.420	**CV(2)=** -0.240	**K factor**=** 3.188	**TL(2)=** -1.40E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/16/2002	1.00E-03	-6.91E+00
1/13/2003	1.28E-03	-6.66E+00
4/8/2003	2.71E-03	-5.91E+00
7/16/2003	1.17E-03	-6.75E+00
10/14/2003	1.00E-03	-6.91E+00
1/14/2004	1.00E-03	-6.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.02E-03	N/A	-6.89E+00	NO
MW393	Downgradient	Yes	3.71E-04	N/A	-7.90E+00	NO
MW396	Upgradient	Yes	3.22E-04	N/A	-8.04E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Nickel — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.016	**S=** 0.021	**CV(1)=** 1.272	**K factor**=** 3.188	**TL(1)=** 8.26E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -4.706	**S=** 1.057	**CV(2)=** -0.225	**K factor**=** 3.188	**TL(2)=** -1.34E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW396

Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/16/2002	5.00E-03	-5.30E+00
1/13/2003	5.00E-03	-5.30E+00
4/8/2003	5.71E-03	-5.17E+00
7/16/2003	5.00E-03	-5.30E+00
10/14/2003	5.00E-03	-5.30E+00
1/14/2004	5.00E-03	-5.30E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	2.09E-03	N/A	-6.17E+00	NO
MW393	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW396	Upgradient	Yes	7.70E-04	N/A	-7.17E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Oxidation-Reduction Potential — UNITS: mV — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 13.000	**S=** 61.952	**CV(1)=** 4.766	**K factor**=** 3.188	**TL(1)=** 2.11E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 4.364	**S=** 0.333	**CV(2)=** 0.076	**K factor**=** 3.188	**TL(2)=** 4.74E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	6.00E+01	4.09E+00
4/8/2003	7.10E+01	4.26E+00
7/16/2003	-5.60E+01	#Func!
10/14/2003	-5.40E+01	#Func!
1/14/2004	-2.20E+01	#Func!
4/12/2004	-6.00E+00	#Func!
7/20/2004	-3.00E+00	#Func!
10/12/2004	1.14E+02	4.74E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW386	Sidegradient	Yes	2.48E+02	N/A	5.51E+00	YES
MW393	Downgradient	Yes	2.35E+02	N/A	5.46E+00	YES
MW396	Upgradient	Yes	5.40E+02	N/A	6.29E+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

MW386
MW393
MW396

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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pH UNITS: Std Unit UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.460	**S=** 0.350	**CV(1)=** 0.054	**K factor**=** 3.736	**TL(1)=** 7.77E+00	**LL(1)=** 5.15E+00
Statistics-Transformed Background Data	**X=** 1.864	**S=** 0.054	**CV(2)=** 0.029	**K factor**=** 3.736	**TL(2)=** 2.07E+00	**LL(2)=** 1.66E+00

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	6.17E+00	1.82E+00
9/16/2002	6.40E+00	1.86E+00
10/16/2002	5.90E+00	1.77E+00
1/13/2003	6.40E+00	1.86E+00
4/8/2003	6.65E+00	1.89E+00
7/16/2003	6.40E+00	1.86E+00
10/14/2003	6.71E+00	1.90E+00
1/14/2004	7.05E+00	1.95E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)?
MW386	Sidegradient	Yes	6.54E+00	NO	1.88E+00	N/A
MW393	Downgradient	Yes	6.17E+00	NO	1.82E+00	N/A
MW396	Upgradient	Yes	6.21E+00	NO	1.83E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Potassium — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.411	**S=** 0.399	**CV(1)=** 0.282	**K factor**=** 3.188	**TL(1)=** 2.68E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.311	**S=** 0.271	**CV(2)=** 0.870	**K factor**=** 3.188	**TL(2)=** 1.18E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/16/2002	9.78E-01	-2.22E-02
1/13/2003	1.08E+00	7.70E-02
4/8/2003	1.12E+00	1.13E-01
7/16/2003	1.38E+00	3.22E-01
10/14/2003	1.24E+00	2.15E-01
1/14/2004	1.49E+00	3.99E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	2.73E-01	NO	-1.30E+00	N/A
MW393	Downgradient	Yes	4.60E-01	NO	-7.77E-01	N/A
MW396	Upgradient	Yes	7.69E-01	NO	-2.63E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Sodium — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 106.825	**S=** 32.041	**CV(1)=** 0.300	**K factor**=** 3.188	**TL(1)=** 2.09E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 4.595	**S=** 0.492	**CV(2)=** 0.107	**K factor**=** 3.188	**TL(2)=** 6.16E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	1.15E+02	4.74E+00
9/16/2002	1.16E+02	4.75E+00
10/16/2002	1.17E+02	4.76E+00
1/13/2003	1.22E+02	4.80E+00
4/8/2003	1.06E+02	4.66E+00
7/16/2003	1.17E+02	4.76E+00
10/14/2003	1.32E+02	4.88E+00
1/14/2004	2.96E+01	3.39E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.09E+02	NO	4.69E+00	N/A
MW393	Downgradient	Yes	8.12E+01	NO	4.40E+00	N/A
MW396	Upgradient	Yes	1.08E+02	NO	4.68E+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 = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Sulfate — **UNITS: mg/L** — **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 22.463	**S=** 8.876	**CV(1)=** 0.395	**K factor**=** 3.188	**TL(1)=** 5.08E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.054	**S=** 0.351	**CV(2)=** 0.115	**K factor**=** 3.188	**TL(2)=** 4.17E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	4.19E+01	3.74E+00
9/16/2002	2.63E+01	3.27E+00
10/16/2002	2.06E+01	3.03E+00
1/13/2003	1.66E+01	2.81E+00
4/8/2003	2.39E+01	3.17E+00
7/16/2003	1.88E+01	2.93E+00
10/14/2003	1.29E+01	2.56E+00
1/14/2004	1.87E+01	2.93E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	3.39E+01	NO	3.52E+00	N/A
MW393	Downgradient	Yes	2.15E+01	NO	3.07E+00	N/A
MW396	Upgradient	Yes	2.95E+01	NO	3.38E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Total Organic Carbon (TOC) — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 9.988	**S=** 4.696	**CV(1)=** 0.470	**K factor**=** 3.188	**TL(1)=** 2.50E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.210	**S=** 0.454	**CV(2)=** 0.205	**K factor**=** 3.188	**TL(2)=** 3.66E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	1.90E+01	2.94E+00
9/16/2002	1.46E+01	2.68E+00
10/16/2002	1.04E+01	2.34E+00
1/13/2003	4.40E+00	1.48E+00
4/8/2003	7.00E+00	1.95E+00
7/16/2003	7.30E+00	1.99E+00
10/14/2003	9.10E+00	2.21E+00
1/14/2004	8.10E+00	2.09E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	6.29E+00	NO	1.84E+00	N/A
MW393	Downgradient	Yes	2.19E+00	NO	7.84E-01	N/A
MW396	Upgradient	Yes	3.47E+00	NO	1.24E+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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Total Organic Halides (TOX) — UNITS: ug/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 142.650	**S=** 53.533	**CV(1)=** 0.375	**K factor**=** 3.188	**TL(1)=** 3.13E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 4.896	**S=** 0.390	**CV(2)=** 0.080	**K factor**=** 3.188	**TL(2)=** 6.14E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	1.93E+02	5.26E+00
9/16/2002	1.90E+02	5.25E+00
10/16/2002	2.21E+02	5.40E+00
1/13/2003	1.06E+02	4.66E+00
4/8/2003	7.78E+01	4.35E+00
7/16/2003	1.22E+02	4.80E+00
10/14/2003	8.64E+01	4.46E+00
1/14/2004	1.45E+02	4.98E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	Yes	1.23E+02	NO	4.81E+00	N/A
MW393	Downgradient	Yes	1.52E+01	NO	2.72E+00	N/A
MW396	Upgradient	Yes	3.74E+01	NO	3.62E+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 = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Zinc — UNITS: mg/L — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.044	**S=** 0.035	**CV(1)=** 0.786	**K factor**=** 3.188	**TL(1)=** 1.56E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.342	**S=** 0.682	**CV(2)=** -0.204	**K factor**=** 3.188	**TL(2)=** -1.17E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW396	
Date Collected	Result	LN(Result)
8/13/2002	1.00E-01	-2.30E+00
9/16/2002	1.00E-01	-2.30E+00
10/16/2002	2.50E-02	-3.69E+00
1/13/2003	3.50E-02	-3.35E+00
4/8/2003	3.50E-02	-3.35E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/14/2004	2.00E-02	-3.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW389	Downgradient
MW390	Downgradient

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)
MW386	Sidegradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW393	Downgradient	Yes	7.98E-03	NO	-4.83E+00	N/A
MW396	Upgradient	Yes	3.42E-03	NO	-5.68E+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 = [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-S/T First Quarter 2026 Statistical Analysis Historical Background Comparison

Aluminum UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.221	**S=** 0.061	**CV(1)=** 0.277	**K factor**=** 2.523	**TL(1)=** 3.76E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.534	**S=** 0.212	**CV(2)=** -0.138	**K factor**=** 2.523	**TL(2)=** -9.99E-01	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	2.00E-01	-1.61E+00
1/15/2003	2.00E-01	-1.61E+00
4/10/2003	2.00E-01	-1.61E+00
7/14/2003	2.00E-01	-1.61E+00
10/13/2003	4.27E-01	-8.51E-01
1/13/2004	3.09E-01	-1.17E+00
4/13/2004	2.00E-01	-1.61E+00
7/21/2004	2.02E-01	-1.60E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	2.00E-01	-1.61E+00
9/16/2002	2.00E-01	-1.61E+00
10/16/2002	2.00E-01	-1.61E+00
1/13/2003	2.00E-01	-1.61E+00
4/10/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/13/2004	2.00E-01	-1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW221	Sidegradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW222	Sidegradient	Yes	7.32E-02	NO	-2.61E+00	N/A
MW223	Sidegradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW224	Sidegradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW369	Downgradient	Yes	6.84E-02	NO	-2.68E+00	N/A
MW372	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW384	Sidegradient	Yes	3.25E-02	NO	-3.43E+00	N/A
MW387	Downgradient	Yes	3.04E-02	NO	-3.49E+00	N/A
MW391	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW394	Upgradient	No	5.00E-02	N/A	-3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Beta activity — **UNITS: pCi/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 14.273	**S=** 13.883	**CV(1)=** 0.973	**K factor**=** 2.523	**TL(1)=** 4.93E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.213	**S=** 1.033	**CV(2)=** 0.467	**K factor**=** 2.523	**TL(2)=** 4.82E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	1.52E+01	2.72E+00
1/15/2003	4.25E+01	3.75E+00
4/10/2003	4.54E+01	3.82E+00
7/14/2003	8.53E+00	2.14E+00
10/13/2003	1.17E+01	2.46E+00
1/13/2004	1.35E+01	2.60E+00
4/13/2004	3.35E+01	3.51E+00
7/21/2004	1.37E+01	2.62E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	5.03E+00	1.62E+00
9/16/2002	5.57E+00	1.72E+00
10/16/2002	1.28E+01	2.55E+00
1/13/2003	4.30E+00	1.46E+00
4/10/2003	9.52E+00	2.25E+00
7/16/2003	3.92E+00	1.37E+00
10/14/2003	1.06E+00	5.83E-02
1/13/2004	2.14E+00	7.61E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	1.48E+01	N/A	2.69E+00	N/A
MW221	Sidegradient	No	6.51E+00	N/A	1.87E+00	N/A
MW222	Sidegradient	No	5.21E+00	N/A	1.65E+00	N/A
MW223	Sidegradient	No	5.21E+00	N/A	1.65E+00	N/A
MW224	Sidegradient	No	8.39E-01	N/A	-1.76E-01	N/A
MW369	Downgradient	Yes	2.75E+01	N/A	3.31E+00	N/A
MW372	Downgradient	Yes	5.02E+01	YES	3.92E+00	N/A
MW384	Sidegradient	Yes	2.94E+01	N/A	3.38E+00	N/A
MW387	Downgradient	Yes	8.74E+01	YES	4.47E+00	N/A
MW391	Downgradient	No	2.84E+00	N/A	1.04E+00	N/A
MW394	Upgradient	No	7.11E+00	N/A	1.96E+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
MW387

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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Boron — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.425	**S=** 0.615	**CV(1)=** 1.447	**K factor**=** 2.523	**TL(1)=** 1.98E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.322	**S=** 0.786	**CV(2)=** -0.595	**K factor**=** 2.523	**TL(2)=** 6.63E-01	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	2.00E-01	-1.61E+00
1/15/2003	2.00E-01	-1.61E+00
4/10/2003	2.00E-01	-1.61E+00
7/14/2003	2.00E-01	-1.61E+00
10/13/2003	2.00E-01	-1.61E+00
1/13/2004	2.00E-01	-1.61E+00
4/13/2004	2.00E-01	-1.61E+00
7/21/2004	2.00E-01	-1.61E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/16/2002	2.00E-01	-1.61E+00
1/13/2003	2.00E-01	-1.61E+00
4/10/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/13/2004	2.00E-01	-1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	9.93E-03	N/A	-4.61E+00	NO
MW221	Sidegradient	Yes	1.85E-02	N/A	-3.99E+00	NO
MW222	Sidegradient	Yes	8.35E-03	N/A	-4.79E+00	NO
MW223	Sidegradient	Yes	7.65E-03	N/A	-4.87E+00	NO
MW224	Sidegradient	Yes	1.59E-02	N/A	-4.14E+00	NO
MW369	Downgradient	Yes	1.80E-02	N/A	-4.02E+00	NO
MW372	Downgradient	Yes	1.29E+00	N/A	2.55E-01	NO
MW384	Sidegradient	Yes	1.06E-01	N/A	-2.24E+00	NO
MW387	Downgradient	Yes	3.54E-02	N/A	-3.34E+00	NO
MW391	Downgradient	Yes	2.55E-02	N/A	-3.67E+00	NO
MW394	Upgradient	Yes	2.34E-02	N/A	-3.76E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis Historical Background Comparison

Bromide UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.000	**S=** 0.000	**CV(1)=** 0.000	**K factor**=** 2.523	**TL(1)=** 1.00E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.000	**S=** 0.000	**CV(2)=** #Num!	**K factor**=** 2.523	**TL(2)=** 0.00E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	1.00E+00	0.00E+00
1/15/2003	1.00E+00	0.00E+00
4/10/2003	1.00E+00	0.00E+00
7/14/2003	1.00E+00	0.00E+00
10/13/2003	1.00E+00	0.00E+00
1/13/2004	1.00E+00	0.00E+00
4/13/2004	1.00E+00	0.00E+00
7/21/2004	1.00E+00	0.00E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	1.00E+00	0.00E+00
9/16/2002	1.00E+00	0.00E+00
10/16/2002	1.00E+00	0.00E+00
1/13/2003	1.00E+00	0.00E+00
4/10/2003	1.00E+00	0.00E+00
7/16/2003	1.00E+00	0.00E+00
10/14/2003	1.00E+00	0.00E+00
1/13/2004	1.00E+00	0.00E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	2.00E-01	NO	-1.61E+00	N/A
MW221	Sidegradient	Yes	1.71E-01	NO	-1.77E+00	N/A
MW222	Sidegradient	Yes	3.59E-01	NO	-1.02E+00	N/A
MW223	Sidegradient	Yes	4.04E-01	NO	-9.06E-01	N/A
MW224	Sidegradient	Yes	2.39E-01	NO	-1.43E+00	N/A
MW369	Downgradient	Yes	3.39E-01	NO	-1.08E+00	N/A
MW372	Downgradient	Yes	4.54E-01	NO	-7.90E-01	N/A
MW384	Sidegradient	Yes	2.84E-01	NO	-1.26E+00	N/A
MW387	Downgradient	Yes	4.83E-01	NO	-7.28E-01	N/A
MW391	Downgradient	Yes	4.87E-01	NO	-7.19E-01	N/A
MW394	Upgradient	Yes	5.44E-01	NO	-6.09E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Calcium — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 27.638	**S=** 4.743	**CV(1)=** 0.172	**K factor**=** 2.523	**TL(1)=** 3.96E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.304	**S=** 0.183	**CV(2)=** 0.055	**K factor**=** 2.523	**TL(2)=** 3.76E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	2.36E+01	3.16E+00
1/15/2003	2.59E+01	3.25E+00
4/10/2003	3.04E+01	3.41E+00
7/14/2003	3.39E+01	3.52E+00
10/13/2003	2.13E+01	3.06E+00
1/13/2004	2.03E+01	3.01E+00
4/13/2004	2.38E+01	3.17E+00
7/21/2004	1.90E+01	2.94E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	2.95E+01	3.38E+00
9/16/2002	2.99E+01	3.40E+00
10/16/2002	3.12E+01	3.44E+00
1/13/2003	3.07E+01	3.42E+00
4/10/2003	3.44E+01	3.54E+00
7/16/2003	2.96E+01	3.39E+00
10/14/2003	3.03E+01	3.41E+00
1/13/2004	2.84E+01	3.35E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	2.07E+01	NO	3.03E+00	N/A
MW221	Sidegradient	Yes	2.08E+01	NO	3.03E+00	N/A
MW222	Sidegradient	Yes	1.58E+01	NO	2.76E+00	N/A
MW223	Sidegradient	Yes	2.11E+01	NO	3.05E+00	N/A
MW224	Sidegradient	Yes	2.01E+01	NO	3.00E+00	N/A
MW369	Downgradient	Yes	1.61E+01	NO	2.78E+00	N/A
MW372	Downgradient	Yes	7.02E+01	YES	4.25E+00	N/A
MW384	Sidegradient	Yes	2.51E+01	NO	3.22E+00	N/A
MW387	Downgradient	Yes	3.97E+01	YES	3.68E+00	N/A
MW391	Downgradient	Yes	2.49E+01	NO	3.21E+00	N/A
MW394	Upgradient	Yes	2.79E+01	NO	3.33E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

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
MW387

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-S/T First Quarter 2026 Statistical Analysis Historical Background Comparison
Chemical Oxygen Demand (COD) UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 35.000	**S=** 0.000	**CV(1)=** 0.000	**K factor**=** 2.523	**TL(1)=** 3.50E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.555	**S=** 0.000	**CV(2)=** 0.000	**K factor**=** 2.523	**TL(2)=** 3.56E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	3.50E+01	3.56E+00
1/15/2003	3.50E+01	3.56E+00
4/10/2003	3.50E+01	3.56E+00
7/14/2003	3.50E+01	3.56E+00
10/13/2003	3.50E+01	3.56E+00
1/13/2004	3.50E+01	3.56E+00
4/13/2004	3.50E+01	3.56E+00
7/21/2004	3.50E+01	3.56E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	3.50E+01	3.56E+00
9/16/2002	3.50E+01	3.56E+00
10/16/2002	3.50E+01	3.56E+00
1/13/2003	3.50E+01	3.56E+00
4/10/2003	3.50E+01	3.56E+00
7/16/2003	3.50E+01	3.56E+00
10/14/2003	3.50E+01	3.56E+00
1/13/2004	3.50E+01	3.56E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW221	Sidegradient	No	2.00E+01	N/A	3.00E+00	N/A
MW222	Sidegradient	No	2.00E+01	N/A	3.00E+00	N/A
MW223	Sidegradient	No	2.00E+01	N/A	3.00E+00	N/A
MW224	Sidegradient	No	2.00E+01	N/A	3.00E+00	N/A
MW369	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW372	Downgradient	Yes	1.04E+01	NO	2.34E+00	N/A
MW384	Sidegradient	No	2.00E+01	N/A	3.00E+00	N/A
MW387	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW391	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW394	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Chloride — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 49.044	**S=** 11.278	**CV(1)=** 0.230	**K factor**=** 2.523	**TL(1)=** 7.75E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.866	**S=** 0.244	**CV(2)=** 0.063	**K factor**=** 2.523	**TL(2)=** 4.48E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	4.46E+01	3.80E+00
1/15/2003	4.32E+01	3.77E+00
4/10/2003	3.15E+01	3.45E+00
7/14/2003	3.08E+01	3.43E+00
10/13/2003	4.09E+01	3.71E+00
1/13/2004	4.08E+01	3.71E+00
4/13/2004	3.75E+01	3.62E+00
7/21/2004	4.08E+01	3.71E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	6.04E+01	4.10E+00
9/16/2002	6.03E+01	4.10E+00
10/16/2002	5.80E+01	4.06E+00
1/13/2003	6.07E+01	4.11E+00
4/10/2003	6.29E+01	4.14E+00
7/16/2003	5.81E+01	4.06E+00
10/14/2003	5.82E+01	4.06E+00
1/13/2004	5.60E+01	4.03E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	1.87E+01	NO	2.93E+00	N/A
MW221	Sidegradient	Yes	3.33E+01	NO	3.51E+00	N/A
MW222	Sidegradient	Yes	2.89E+01	NO	3.36E+00	N/A
MW223	Sidegradient	Yes	2.95E+01	NO	3.38E+00	N/A
MW224	Sidegradient	Yes	1.51E+01	NO	2.71E+00	N/A
MW369	Downgradient	Yes	2.61E+01	NO	3.26E+00	N/A
MW372	Downgradient	Yes	3.63E+01	NO	3.59E+00	N/A
MW384	Sidegradient	Yes	2.16E+01	NO	3.07E+00	N/A
MW387	Downgradient	Yes	3.63E+01	NO	3.59E+00	N/A
MW391	Downgradient	Yes	3.92E+01	NO	3.67E+00	N/A
MW394	Upgradient	Yes	4.34E+01	NO	3.77E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Cobalt — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.016	**S=** 0.040	**CV(1)=** 2.440	**K factor**=** 2.523	**TL(1)=** 1.16E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -5.582	**S=** 1.573	**CV(2)=** -0.282	**K factor**=** 2.523	**TL(2)=** -1.61E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	4.10E-03	-5.50E+00
1/15/2003	4.96E-03	-5.31E+00
4/10/2003	2.89E-03	-5.85E+00
7/14/2003	1.61E-01	-1.83E+00
10/13/2003	2.26E-02	-3.79E+00
1/13/2004	4.64E-03	-5.37E+00
4/13/2004	1.00E-03	-6.91E+00
7/21/2004	2.64E-03	-5.94E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/16/2002	1.00E-03	-6.91E+00
1/13/2003	1.00E-03	-6.91E+00
4/10/2003	1.00E-03	-6.91E+00
7/16/2003	1.00E-03	-6.91E+00
10/14/2003	1.00E-03	-6.91E+00
1/13/2004	1.00E-03	-6.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW221	Sidegradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW222	Sidegradient	Yes	9.86E-04	N/A	-6.92E+00	NO
MW223	Sidegradient	Yes	1.51E-03	N/A	-6.50E+00	NO
MW224	Sidegradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW369	Downgradient	Yes	4.32E-03	N/A	-5.44E+00	NO
MW372	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW384	Sidegradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW387	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW391	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW394	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Conductivity — UNITS: umho/cm — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 382.132	**S=** 107.134	**CV(1)=** 0.280	**K factor**=** 2.523	**TL(1)=** 6.52E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.716	**S=** 1.164	**CV(2)=** 0.204	**K factor**=** 2.523	**TL(2)=** 8.65E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW220	
Date Collected	Result	LN(Result)
10/14/2002	3.68E+02	5.91E+00
1/15/2003	4.33E+02	6.07E+00
4/10/2003	4.89E+02	6.19E+00
7/14/2003	4.30E+02	6.06E+00
10/13/2003	3.46E+02	5.85E+00
1/13/2004	3.65E+02	5.90E+00
4/13/2004	4.16E+02	6.03E+00
7/21/2004	3.53E+02	5.87E+00

Well Number:	MW394	
Date Collected	Result	LN(Result)
8/13/2002	4.06E+02	6.01E+00
9/16/2002	4.18E+02	6.04E+00
10/16/2002	4.11E+02	6.02E+00
1/13/2003	4.22E+02	6.05E+00
4/10/2003	4.20E+02	6.04E+00
7/16/2003	4.38E+02	6.08E+00
10/14/2003	3.91E+00	1.36E+00
1/13/2004	3.95E+02	5.98E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	3.20E+02	NO	5.77E+00	N/A
MW221	Sidegradient	Yes	3.83E+02	NO	5.95E+00	N/A
MW222	Sidegradient	Yes	3.16E+02	NO	5.76E+00	N/A
MW223	Sidegradient	Yes	3.71E+02	NO	5.92E+00	N/A
MW224	Sidegradient	Yes	3.71E+02	NO	5.92E+00	N/A
MW369	Downgradient	Yes	3.50E+02	NO	5.86E+00	N/A
MW372	Downgradient	Yes	7.55E+02	YES	6.63E+00	N/A
MW384	Sidegradient	Yes	4.26E+02	NO	6.05E+00	N/A
MW387	Downgradient	Yes	5.70E+02	NO	6.35E+00	N/A
MW391	Downgradient	Yes	3.34E+02	NO	5.81E+00	N/A
MW394	Upgradient	Yes	4.14E+02	NO	6.03E+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

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Copper — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.024	**S=** 0.010	**CV(1)=** 0.429	**K factor**=** 2.523	**TL(1)=** 4.96E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.794	**S=** 0.312	**CV(2)=** -0.082	**K factor**=** 2.523	**TL(2)=** -3.01E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	2.11E-02	-3.86E+00
1/15/2003	2.00E-02	-3.91E+00
4/10/2003	2.00E-02	-3.91E+00
7/14/2003	2.00E-02	-3.91E+00
10/13/2003	2.00E-02	-3.91E+00
1/13/2004	2.00E-02	-3.91E+00
4/13/2004	2.00E-02	-3.91E+00
7/21/2004	2.00E-02	-3.91E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/16/2002	2.00E-02	-3.91E+00
1/13/2003	2.00E-02	-3.91E+00
4/10/2003	2.00E-02	-3.91E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/13/2004	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	2.72E-03	NO	-5.91E+00	N/A
MW221	Sidegradient	Yes	4.12E-03	NO	-5.49E+00	N/A
MW222	Sidegradient	Yes	1.95E-03	NO	-6.24E+00	N/A
MW223	Sidegradient	Yes	4.19E-03	NO	-5.48E+00	N/A
MW224	Sidegradient	Yes	2.89E-03	NO	-5.85E+00	N/A
MW369	Downgradient	Yes	1.44E-03	NO	-6.54E+00	N/A
MW372	Downgradient	Yes	1.71E-03	NO	-6.37E+00	N/A
MW384	Sidegradient	Yes	2.42E-03	NO	-6.02E+00	N/A
MW387	Downgradient	Yes	2.38E-03	NO	-6.04E+00	N/A
MW391	Downgradient	Yes	3.58E-03	NO	-5.63E+00	N/A
MW394	Upgradient	Yes	1.36E-03	NO	-6.60E+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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Dissolved Oxygen — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 3.784	**S=** 1.887	**CV(1)=** 0.499	**K factor**=** 2.523	**TL(1)=** 8.54E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.182	**S=** 0.612	**CV(2)=** 0.518	**K factor**=** 2.523	**TL(2)=** 2.73E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	6.79E+00	1.92E+00
1/15/2003	7.25E+00	1.98E+00
4/10/2003	3.60E+00	1.28E+00
7/14/2003	9.40E-01	-6.19E-02
10/13/2003	1.65E+00	5.01E-01
1/13/2004	3.48E+00	1.25E+00
4/13/2004	1.05E+00	4.88E-02
7/21/2004	4.46E+00	1.50E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	6.09E+00	1.81E+00
9/16/2002	3.85E+00	1.35E+00
10/16/2002	5.11E+00	1.63E+00
1/13/2003	3.83E+00	1.34E+00
4/10/2003	4.15E+00	1.42E+00
7/16/2003	1.83E+00	6.04E-01
10/14/2003	3.33E+00	1.20E+00
1/13/2004	3.14E+00	1.14E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	6.10E+00	NO	1.81E+00	N/A
MW221	Sidegradient	Yes	5.84E+00	NO	1.76E+00	N/A
MW222	Sidegradient	Yes	5.78E+00	NO	1.75E+00	N/A
MW223	Sidegradient	Yes	3.27E+00	NO	1.18E+00	N/A
MW224	Sidegradient	Yes	3.37E+00	NO	1.21E+00	N/A
MW369	Downgradient	Yes	3.42E+00	NO	1.23E+00	N/A
MW372	Downgradient	Yes	3.61E+00	NO	1.28E+00	N/A
MW384	Sidegradient	Yes	5.70E+00	NO	1.74E+00	N/A
MW387	Downgradient	Yes	4.46E+00	NO	1.50E+00	N/A
MW391	Downgradient	Yes	5.84E+00	NO	1.76E+00	N/A
MW394	Upgradient	Yes	6.06E+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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Dissolved Solids — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 232.688	**S=** 27.490	**CV(1)=** 0.118	**K factor**=** 2.523	**TL(1)=** 3.02E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.443	**S=** 0.118	**CV(2)=** 0.022	**K factor**=** 2.523	**TL(2)=** 5.74E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	2.08E+02	5.34E+00
1/15/2003	2.57E+02	5.55E+00
4/10/2003	2.88E+02	5.66E+00
7/14/2003	2.62E+02	5.57E+00
10/13/2003	1.97E+02	5.28E+00
1/13/2004	1.98E+02	5.29E+00
4/13/2004	2.45E+02	5.50E+00
7/21/2004	2.04E+02	5.32E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	2.47E+02	5.51E+00
9/16/2002	2.59E+02	5.56E+00
10/16/2002	2.01E+02	5.30E+00
1/13/2003	2.28E+02	5.43E+00
4/10/2003	2.49E+02	5.52E+00
7/16/2003	2.40E+02	5.48E+00
10/14/2003	2.30E+02	5.44E+00
1/13/2004	2.10E+02	5.35E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	1.88E+02	NO	5.24E+00	N/A
MW221	Sidegradient	Yes	2.14E+02	NO	5.37E+00	N/A
MW222	Sidegradient	Yes	1.92E+02	NO	5.26E+00	N/A
MW223	Sidegradient	Yes	2.01E+02	NO	5.30E+00	N/A
MW224	Sidegradient	Yes	2.51E+02	NO	5.53E+00	N/A
MW369	Downgradient	Yes	1.86E+02	NO	5.23E+00	N/A
MW372	Downgradient	Yes	4.78E+02	YES	6.17E+00	N/A
MW384	Sidegradient	Yes	2.29E+02	NO	5.43E+00	N/A
MW387	Downgradient	Yes	3.08E+02	YES	5.73E+00	N/A
MW391	Downgradient	Yes	1.96E+02	NO	5.28E+00	N/A
MW394	Upgradient	Yes	1.98E+02	NO	5.29E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

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
MW387

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Iron — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.897	**S=** 1.050	**CV(1)=** 1.170	**K factor**=** 2.523	**TL(1)=** 3.55E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.565	**S=** 0.951	**CV(2)=** -1.683	**K factor**=** 2.523	**TL(2)=** 1.83E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW220	
Date Collected	Result	LN(Result)
10/14/2002	2.00E-01	-1.61E+00
1/15/2003	2.00E-01	-1.61E+00
4/10/2003	4.29E-01	-8.46E-01
7/14/2003	4.33E+00	1.47E+00
10/13/2003	1.81E+00	5.93E-01
1/13/2004	7.93E-01	-2.32E-01
4/13/2004	1.30E-01	-2.04E+00
7/21/2004	3.82E-01	-9.62E-01

Well Number:	MW394	
Date Collected	Result	LN(Result)
8/13/2002	1.34E+00	2.93E-01
9/16/2002	3.28E-01	-1.11E+00
10/16/2002	1.38E+00	3.22E-01
1/13/2003	1.30E+00	2.62E-01
4/10/2003	4.94E-01	-7.05E-01
7/16/2003	6.20E-01	-4.78E-01
10/14/2003	3.70E-01	-9.94E-01
1/13/2004	2.51E-01	-1.38E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW221	Sidegradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW222	Sidegradient	Yes	1.06E-01	N/A	-2.24E+00	NO
MW223	Sidegradient	Yes	3.07E-01	N/A	-1.18E+00	NO
MW224	Sidegradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW369	Downgradient	Yes	1.15E-01	N/A	-2.16E+00	NO
MW372	Downgradient	Yes	4.12E-02	N/A	-3.19E+00	NO
MW384	Sidegradient	Yes	6.55E-02	N/A	-2.73E+00	NO
MW387	Downgradient	Yes	7.64E-02	N/A	-2.57E+00	NO
MW391	Downgradient	Yes	7.64E-02	N/A	-2.57E+00	NO
MW394	Upgradient	No	1.00E-01	N/A	-2.30E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Magnesium — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 10.796	**S=** 1.703	**CV(1)=** 0.158	**K factor**=** 2.523	**TL(1)=** 1.51E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.368	**S=** 0.158	**CV(2)=** 0.067	**K factor**=** 2.523	**TL(2)=** 2.77E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	9.16E+00	2.21E+00
1/15/2003	1.00E+01	2.30E+00
4/10/2003	1.08E+01	2.38E+00
7/14/2003	1.47E+01	2.69E+00
10/13/2003	9.03E+00	2.20E+00
1/13/2004	8.49E+00	2.14E+00
4/13/2004	9.70E+00	2.27E+00
7/21/2004	8.06E+00	2.09E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	1.18E+01	2.47E+00
9/16/2002	1.21E+01	2.49E+00
10/16/2002	1.13E+01	2.42E+00
1/13/2003	1.03E+01	2.33E+00
4/10/2003	1.17E+01	2.46E+00
7/16/2003	1.20E+01	2.48E+00
10/14/2003	1.22E+01	2.50E+00
1/13/2004	1.14E+01	2.43E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	8.73E+00	NO	2.17E+00	N/A
MW221	Sidegradient	Yes	9.27E+00	NO	2.23E+00	N/A
MW222	Sidegradient	Yes	7.09E+00	NO	1.96E+00	N/A
MW223	Sidegradient	Yes	8.78E+00	NO	2.17E+00	N/A
MW224	Sidegradient	Yes	8.91E+00	NO	2.19E+00	N/A
MW369	Downgradient	Yes	6.84E+00	NO	1.92E+00	N/A
MW372	Downgradient	Yes	2.29E+01	YES	3.13E+00	N/A
MW384	Sidegradient	Yes	1.07E+01	NO	2.37E+00	N/A
MW387	Downgradient	Yes	1.67E+01	YES	2.82E+00	N/A
MW391	Downgradient	Yes	1.06E+01	NO	2.36E+00	N/A
MW394	Upgradient	Yes	1.20E+01	NO	2.48E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372
MW387

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Manganese — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.287	**S=** 0.619	**CV(1)=** 2.156	**K factor**=** 2.523	**TL(1)=** 1.85E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -2.455	**S=** 1.619	**CV(2)=** -0.659	**K factor**=** 2.523	**TL(2)=** 1.63E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	3.06E-02	-3.49E+00
1/15/2003	2.91E-02	-3.54E+00
4/10/2003	1.37E-02	-4.29E+00
7/14/2003	2.54E+00	9.32E-01
10/13/2003	3.78E-01	-9.73E-01
1/13/2004	1.59E-01	-1.84E+00
4/13/2004	7.07E-03	-4.95E+00
7/21/2004	8.41E-02	-2.48E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	5.42E-01	-6.12E-01
9/16/2002	1.55E-01	-1.86E+00
10/16/2002	1.03E-01	-2.27E+00
1/13/2003	1.28E-01	-2.06E+00
4/10/2003	5.00E-03	-5.30E+00
7/16/2003	2.72E-01	-1.30E+00
10/14/2003	7.95E-02	-2.53E+00
1/13/2004	6.58E-02	-2.72E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	1.50E-03	N/A	-6.50E+00	NO
MW221	Sidegradient	No	5.00E-03	N/A	-5.30E+00	N/A
MW222	Sidegradient	Yes	5.66E-03	N/A	-5.17E+00	NO
MW223	Sidegradient	Yes	9.80E-03	N/A	-4.63E+00	NO
MW224	Sidegradient	Yes	1.21E-03	N/A	-6.72E+00	NO
MW369	Downgradient	Yes	4.44E-03	N/A	-5.42E+00	NO
MW372	Downgradient	No	5.00E-03	N/A	-5.30E+00	N/A
MW384	Sidegradient	Yes	2.40E-03	N/A	-6.03E+00	NO
MW387	Downgradient	Yes	4.60E-03	N/A	-5.38E+00	NO
MW391	Downgradient	Yes	1.04E-03	N/A	-6.87E+00	NO
MW394	Upgradient	No	5.00E-03	N/A	-5.30E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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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(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 4.813	**S=** 0.750	**CV(1)=** 0.156	**K factor**=** 2.523	**TL(1)=** 6.70E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.552	**S=** 0.229	**CV(2)=** 0.148	**K factor**=** 2.523	**TL(2)=** 2.13E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	5.00E+00	1.61E+00
1/15/2003	5.00E+00	1.61E+00
4/10/2003	5.00E+00	1.61E+00
7/14/2003	5.00E+00	1.61E+00
10/13/2003	5.00E+00	1.61E+00
1/13/2004	5.00E+00	1.61E+00
4/13/2004	5.00E+00	1.61E+00
7/21/2004	5.00E+00	1.61E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	5.00E+00	1.61E+00
9/30/2002	2.00E+00	6.93E-01
10/16/2002	5.00E+00	1.61E+00
1/13/2003	5.00E+00	1.61E+00
4/10/2003	5.00E+00	1.61E+00
7/16/2003	5.00E+00	1.61E+00
10/14/2003	5.00E+00	1.61E+00
1/13/2004	5.00E+00	1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	1.99E+00	NO	6.88E-01	N/A
MW221	Sidegradient	Yes	2.07E+00	NO	7.28E-01	N/A
MW222	Sidegradient	Yes	2.14E+00	NO	7.61E-01	N/A
MW223	Sidegradient	Yes	2.03E+00	NO	7.08E-01	N/A
MW224	Sidegradient	Yes	2.02E+00	NO	7.03E-01	N/A
MW369	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW372	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW384	Sidegradient	No	5.00E+00	N/A	1.61E+00	N/A
MW387	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW391	Downgradient	Yes	2.06E+00	NO	7.23E-01	N/A
MW394	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 = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Molybdenum — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.006	**S=** 0.008	**CV(1)=** 1.261	**K factor**=** 2.523	**TL(1)=** 2.64E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -5.747	**S=** 1.205	**CV(2)=** -0.210	**K factor**=** 2.523	**TL(2)=** -2.71E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	5.58E-03	-5.19E+00
1/15/2003	9.83E-03	-4.62E+00
4/10/2003	1.09E-02	-4.52E+00
7/14/2003	2.45E-03	-6.01E+00
10/13/2003	5.66E-03	-5.17E+00
1/13/2004	5.72E-03	-5.16E+00
4/13/2004	1.00E-03	-6.91E+00
7/21/2004	3.92E-03	-5.54E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/16/2002	1.00E-03	-6.91E+00
1/13/2003	1.00E-03	-6.91E+00
4/10/2003	1.00E-03	-6.91E+00
7/16/2003	1.00E-03	-6.91E+00
10/14/2003	1.00E-03	-6.91E+00
1/13/2004	1.00E-03	-6.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	No	6.06E-04	N/A	-7.41E+00	N/A
MW221	Sidegradient	Yes	1.83E-03	N/A	-6.30E+00	NO
MW222	Sidegradient	Yes	1.91E-03	N/A	-6.26E+00	NO
MW223	Sidegradient	Yes	1.03E-02	N/A	-4.58E+00	NO
MW224	Sidegradient	Yes	5.12E-04	N/A	-7.58E+00	NO
MW369	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW372	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW384	Sidegradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW387	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW391	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW394	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Nickel — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.127	**S=** 0.228	**CV(1)=** 1.790	**K factor**=** 2.523	**TL(1)=** 7.01E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.617	**S=** 1.837	**CV(2)=** -0.508	**K factor**=** 2.523	**TL(2)=** 1.02E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	4.18E-01	-8.72E-01
1/15/2003	7.38E-01	-3.04E-01
4/10/2003	5.44E-01	-6.09E-01
7/14/2003	1.06E-01	-2.24E+00
10/13/2003	5.29E-02	-2.94E+00
1/13/2004	2.09E-02	-3.87E+00
4/13/2004	5.00E-03	-5.30E+00
7/21/2004	1.92E-02	-3.95E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/16/2002	5.00E-03	-5.30E+00
1/13/2003	5.00E-03	-5.30E+00
4/10/2003	5.00E-03	-5.30E+00
7/16/2003	5.00E-03	-5.30E+00
10/14/2003	5.00E-03	-5.30E+00
1/13/2004	5.00E-03	-5.30E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	5.64E-03	N/A	-5.18E+00	NO
MW221	Sidegradient	Yes	7.17E-03	N/A	-4.94E+00	NO
MW222	Sidegradient	Yes	1.93E-02	N/A	-3.95E+00	NO
MW223	Sidegradient	Yes	4.50E-01	N/A	-7.99E-01	NO
MW224	Sidegradient	Yes	4.79E-03	N/A	-5.34E+00	NO
MW369	Downgradient	Yes	2.37E-03	N/A	-6.04E+00	NO
MW372	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW384	Sidegradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW387	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW391	Downgradient	Yes	6.21E-04	N/A	-7.38E+00	NO
MW394	Upgradient	Yes	4.58E-03	N/A	-5.39E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Oxidation-Reduction Potential — UNITS: mV — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 179.872	**S=** 86.318	**CV(1)=** 0.480	**K factor**=** 2.523	**TL(1)=** 3.98E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 4.861	**S=** 1.252	**CV(2)=** 0.258	**K factor**=** 2.523	**TL(2)=** 8.02E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	2.05E+02	5.32E+00
1/15/2003	1.95E+00	6.68E-01
4/10/2003	2.03E+02	5.31E+00
7/14/2003	3.00E+01	3.40E+00
10/13/2003	1.07E+02	4.67E+00
1/13/2004	2.95E+02	5.69E+00
4/13/2004	1.90E+02	5.25E+00
7/21/2004	3.19E+02	5.77E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	9.00E+01	4.50E+00
9/16/2002	2.40E+02	5.48E+00
10/16/2002	1.85E+02	5.22E+00
1/13/2003	2.20E+02	5.39E+00
4/10/2003	1.96E+02	5.28E+00
7/16/2003	1.72E+02	5.15E+00
10/14/2003	1.75E+02	5.16E+00
1/13/2004	2.49E+02	5.52E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	5.78E+02	YES	6.36E+00	N/A
MW221	Sidegradient	Yes	5.26E+02	YES	6.26E+00	N/A
MW222	Sidegradient	Yes	5.50E+02	YES	6.31E+00	N/A
MW223	Sidegradient	Yes	5.10E+02	YES	6.23E+00	N/A
MW224	Sidegradient	Yes	5.27E+02	YES	6.27E+00	N/A
MW369	Downgradient	Yes	3.69E+02	NO	5.91E+00	N/A
MW372	Downgradient	Yes	5.16E+02	YES	6.25E+00	N/A
MW384	Sidegradient	Yes	5.45E+02	YES	6.30E+00	N/A
MW387	Downgradient	Yes	4.86E+02	YES	6.19E+00	N/A
MW391	Downgradient	Yes	4.82E+02	YES	6.18E+00	N/A
MW394	Upgradient	Yes	4.97E+02	YES	6.21E+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.

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.*

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
MW220
MW221
MW222
MW223
MW224
MW372
MW384
MW387
MW391
MW394

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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pH UNITS: Std Unit URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.138	**S=** 0.282	**CV(1)=** 0.046	**K factor**=** 2.904	**TL(1)=** 6.96E+00	**LL(1)=** 5.32E+00
Statistics-Transformed Background Data	**X=** 1.813	**S=** 0.047	**CV(2)=** 0.026	**K factor**=** 2.904	**TL(2)=** 1.95E+00	**LL(2)=** 1.68E+00

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW220	
Date Collected	Result	LN(Result)
10/14/2002	6.04E+00	1.80E+00
1/15/2003	6.31E+00	1.84E+00
4/10/2003	6.50E+00	1.87E+00
7/14/2003	6.30E+00	1.84E+00
10/13/2003	6.34E+00	1.85E+00
1/13/2004	6.33E+00	1.85E+00
4/13/2004	6.30E+00	1.84E+00
7/21/2004	5.90E+00	1.77E+00

Well Number:	MW394	
Date Collected	Result	LN(Result)
8/13/2002	5.80E+00	1.76E+00
9/30/2002	5.93E+00	1.78E+00
10/16/2002	5.42E+00	1.69E+00
1/13/2003	6.00E+00	1.79E+00
4/10/2003	6.04E+00	1.80E+00
7/16/2003	6.20E+00	1.82E+00
10/14/2003	6.40E+00	1.86E+00
1/13/2004	6.39E+00	1.85E+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)?
MW220	Upgradient	Yes	5.83E+00	NO	1.76E+00	N/A
MW221	Sidegradient	Yes	5.94E+00	NO	1.78E+00	N/A
MW222	Sidegradient	Yes	6.03E+00	NO	1.80E+00	N/A
MW223	Sidegradient	Yes	5.93E+00	NO	1.78E+00	N/A
MW224	Sidegradient	Yes	5.93E+00	NO	1.78E+00	N/A
MW369	Downgradient	Yes	5.85E+00	NO	1.77E+00	N/A
MW372	Downgradient	Yes	6.03E+00	NO	1.80E+00	N/A
MW384	Sidegradient	Yes	5.89E+00	NO	1.77E+00	N/A
MW387	Downgradient	Yes	5.97E+00	NO	1.79E+00	N/A
MW391	Downgradient	Yes	5.84E+00	NO	1.76E+00	N/A
MW394	Upgradient	Yes	5.79E+00	NO	1.76E+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 = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Potassium — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.654	**S=** 9.310	**CV(1)=** 1.399	**K factor**=** 2.523	**TL(1)=** 3.01E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.130	**S=** 1.208	**CV(2)=** 1.069	**K factor**=** 2.523	**TL(2)=** 4.18E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	6.70E+00	1.90E+00
1/15/2003	2.97E+01	3.39E+00
4/10/2003	2.49E+01	3.21E+00
7/14/2003	1.13E+00	1.22E-01
10/13/2003	3.43E+00	1.23E+00
1/13/2004	6.71E+00	1.90E+00
4/13/2004	1.93E+01	2.96E+00
7/21/2004	3.97E+00	1.38E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/16/2002	1.03E+00	2.96E-02
1/13/2003	1.10E+00	9.53E-02
4/10/2003	1.24E+00	2.15E-01
7/16/2003	1.14E+00	1.31E-01
10/14/2003	1.05E+00	4.88E-02
1/13/2004	1.07E+00	6.77E-02

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	4.68E+00	N/A	1.54E+00	NO
MW221	Sidegradient	Yes	1.61E+00	N/A	4.76E-01	NO
MW222	Sidegradient	Yes	4.56E-01	N/A	-7.85E-01	NO
MW223	Sidegradient	Yes	3.01E+00	N/A	1.10E+00	NO
MW224	Sidegradient	Yes	8.49E-01	N/A	-1.64E-01	NO
MW369	Downgradient	Yes	5.53E-01	N/A	-5.92E-01	NO
MW372	Downgradient	Yes	2.12E+00	N/A	7.51E-01	NO
MW384	Sidegradient	Yes	1.47E+00	N/A	3.85E-01	NO
MW387	Downgradient	Yes	1.84E+00	N/A	6.10E-01	NO
MW391	Downgradient	Yes	1.49E+00	N/A	3.99E-01	NO
MW394	Upgradient	Yes	1.34E+00	N/A	2.93E-01	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Sodium — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 36.363	**S=** 8.666	**CV(1)=** 0.238	**K factor**=** 2.523	**TL(1)=** 5.82E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.570	**S=** 0.222	**CV(2)=** 0.062	**K factor**=** 2.523	**TL(2)=** 4.13E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	3.54E+01	3.57E+00
1/15/2003	4.06E+01	3.70E+00
4/10/2003	5.10E+01	3.93E+00
7/14/2003	5.82E+01	4.06E+00
10/13/2003	3.81E+01	3.64E+00
1/13/2004	3.70E+01	3.61E+00
4/13/2004	4.32E+01	3.77E+00
7/21/2004	3.38E+01	3.52E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	3.29E+01	3.49E+00
9/16/2002	2.99E+01	3.40E+00
10/16/2002	2.90E+01	3.37E+00
1/13/2003	2.71E+01	3.30E+00
4/10/2003	2.48E+01	3.21E+00
7/16/2003	3.56E+01	3.57E+00
10/14/2003	3.39E+01	3.52E+00
1/13/2004	3.13E+01	3.44E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	3.79E+01	NO	3.63E+00	N/A
MW221	Sidegradient	Yes	4.75E+01	NO	3.86E+00	N/A
MW222	Sidegradient	Yes	4.45E+01	NO	3.80E+00	N/A
MW223	Sidegradient	Yes	4.60E+01	NO	3.83E+00	N/A
MW224	Sidegradient	Yes	5.90E+01	YES	4.08E+00	N/A
MW369	Downgradient	Yes	5.33E+01	NO	3.98E+00	N/A
MW372	Downgradient	Yes	6.95E+01	YES	4.24E+00	N/A
MW384	Sidegradient	Yes	4.78E+01	NO	3.87E+00	N/A
MW387	Downgradient	Yes	5.59E+01	NO	4.02E+00	N/A
MW391	Downgradient	Yes	3.37E+01	NO	3.52E+00	N/A
MW394	Upgradient	Yes	3.54E+01	NO	3.57E+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

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

MW224
MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Sulfate — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 10.481	**S=** 2.648	**CV(1)=** 0.253	**K factor**=** 2.523	**TL(1)=** 1.72E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.322	**S=** 0.239	**CV(2)=** 0.103	**K factor**=** 2.523	**TL(2)=** 2.92E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	1.04E+01	2.34E+00
1/15/2003	9.80E+00	2.28E+00
4/10/2003	1.54E+01	2.73E+00
7/14/2003	1.49E+01	2.70E+00
10/13/2003	1.35E+01	2.60E+00
1/13/2004	1.03E+01	2.33E+00
4/13/2004	1.43E+01	2.66E+00
7/21/2004	1.05E+01	2.35E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	1.12E+01	2.42E+00
9/16/2002	8.30E+00	2.12E+00
10/16/2002	8.00E+00	2.08E+00
1/13/2003	8.50E+00	2.14E+00
4/10/2003	7.90E+00	2.07E+00
7/16/2003	8.40E+00	2.13E+00
10/14/2003	8.20E+00	2.10E+00
1/13/2004	8.10E+00	2.09E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	1.64E+01	NO	2.80E+00	N/A
MW221	Sidegradient	Yes	1.40E+01	NO	2.64E+00	N/A
MW222	Sidegradient	Yes	1.06E+01	NO	2.36E+00	N/A
MW223	Sidegradient	Yes	1.23E+01	NO	2.51E+00	N/A
MW224	Sidegradient	Yes	1.21E+01	NO	2.49E+00	N/A
MW369	Downgradient	Yes	7.72E+00	NO	2.04E+00	N/A
MW372	Downgradient	Yes	1.48E+02	YES	5.00E+00	N/A
MW384	Sidegradient	Yes	1.99E+01	YES	2.99E+00	N/A
MW387	Downgradient	Yes	3.37E+01	YES	3.52E+00	N/A
MW391	Downgradient	Yes	1.21E+01	NO	2.49E+00	N/A
MW394	Upgradient	Yes	1.19E+01	NO	2.48E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372
MW384
MW387

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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Technetium-99 — UNITS: pCi/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 9.354	**S=** 9.280	**CV(1)=** 0.992	**K factor**=** 2.523	**TL(1)=** 3.28E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.270	**S=** 0.849	**CV(2)=** 0.374	**K factor**=** 2.523	**TL(2)=** 3.26E+00	**LL(2)=** N/A

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

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	1.97E+01	2.98E+00
1/15/2003	2.61E+01	3.26E+00
4/10/2003	3.56E+00	1.27E+00
7/14/2003	0.00E+00	#Func!
10/13/2003	2.10E+01	3.04E+00
1/13/2004	6.32E+00	1.84E+00
4/13/2004	3.00E+00	1.10E+00
7/21/2004	1.46E+01	2.68E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	1.40E+01	2.64E+00
9/16/2002	5.45E+00	1.70E+00
10/16/2002	2.49E+00	9.12E-01
1/13/2003	1.83E+01	2.91E+00
4/10/2003	-1.45E+00	#Func!
7/16/2003	-1.71E+00	#Func!
10/14/2003	1.83E+01	2.91E+00
1/13/2004	0.00E+00	#Func!

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	No	1.06E+01	N/A	2.36E+00	N/A
MW221	Sidegradient	No	3.53E+00	N/A	1.26E+00	N/A
MW222	Sidegradient	No	4.34E+00	N/A	1.47E+00	N/A
MW223	Sidegradient	No	2.27E+00	N/A	8.20E-01	N/A
MW224	Sidegradient	No	7.95E+00	N/A	2.07E+00	N/A
MW369	Downgradient	Yes	5.30E+01	YES	3.97E+00	N/A
MW372	Downgradient	Yes	7.46E+01	YES	4.31E+00	N/A
MW384	Sidegradient	Yes	3.64E+01	YES	3.59E+00	N/A
MW387	Downgradient	Yes	1.47E+02	YES	4.99E+00	N/A
MW391	Downgradient	No	9.52E+00	N/A	2.25E+00	N/A
MW394	Upgradient	No	1.07E+01	N/A	2.37E+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

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

MW369
MW372
MW384
MW387

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Total Organic Carbon (TOC) — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.494	**S=** 0.737	**CV(1)=** 0.493	**K factor**=** 2.523	**TL(1)=** 3.35E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.315	**S=** 0.402	**CV(2)=** 1.279	**K factor**=** 2.523	**TL(2)=** 1.33E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	1.00E+00	0.00E+00
1/15/2003	1.10E+00	9.53E-02
4/10/2003	1.00E+00	0.00E+00
7/14/2003	3.30E+00	1.19E+00
10/13/2003	1.80E+00	5.88E-01
1/13/2004	1.00E+00	0.00E+00
4/13/2004	2.00E+00	6.93E-01
7/21/2004	3.10E+00	1.13E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	1.30E+00	2.62E-01
9/16/2002	1.00E+00	0.00E+00
10/16/2002	1.00E+00	0.00E+00
1/13/2003	1.60E+00	4.70E-01
4/10/2003	1.00E+00	0.00E+00
7/16/2003	1.40E+00	3.36E-01
10/14/2003	1.30E+00	2.62E-01
1/13/2004	1.00E+00	0.00E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	7.07E-01	NO	-3.47E-01	N/A
MW221	Sidegradient	Yes	6.95E-01	NO	-3.64E-01	N/A
MW222	Sidegradient	Yes	6.17E-01	NO	-4.83E-01	N/A
MW223	Sidegradient	Yes	6.58E-01	NO	-4.19E-01	N/A
MW224	Sidegradient	Yes	7.87E-01	NO	-2.40E-01	N/A
MW369	Downgradient	Yes	6.75E-01	NO	-3.93E-01	N/A
MW372	Downgradient	Yes	1.23E+00	NO	2.07E-01	N/A
MW384	Sidegradient	Yes	1.27E+00	NO	2.39E-01	N/A
MW387	Downgradient	Yes	1.40E+00	NO	3.36E-01	N/A
MW391	Downgradient	Yes	6.71E-01	NO	-3.99E-01	N/A
MW394	Upgradient	Yes	6.77E-01	NO	-3.90E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Total Organic Halides (TOX) — UNITS: ug/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 63.475	**S=** 163.135	**CV(1)=** 2.570	**K factor**=** 2.523	**TL(1)=** 4.75E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.103	**S=** 1.145	**CV(2)=** 0.369	**K factor**=** 2.523	**TL(2)=** 5.99E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	5.00E+01	3.91E+00
1/15/2003	1.00E+01	2.30E+00
4/10/2003	1.00E+01	2.30E+00
7/14/2003	1.00E+01	2.30E+00
10/13/2003	1.00E+01	2.30E+00
1/13/2004	1.00E+01	2.30E+00
4/13/2004	1.00E+01	2.30E+00
7/21/2004	1.00E+01	2.30E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	5.00E+01	3.91E+00
9/16/2002	6.72E+02	6.51E+00
10/16/2002	5.00E+01	3.91E+00
1/13/2003	3.61E+01	3.59E+00
4/10/2003	1.00E+01	2.30E+00
7/16/2003	4.27E+01	3.75E+00
10/14/2003	2.20E+01	3.09E+00
1/13/2004	1.28E+01	2.55E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	6.48E+00	N/A	1.87E+00	NO
MW221	Sidegradient	Yes	7.86E+00	N/A	2.06E+00	NO
MW222	Sidegradient	Yes	7.02E+00	N/A	1.95E+00	NO
MW223	Sidegradient	Yes	8.50E+00	N/A	2.14E+00	NO
MW224	Sidegradient	Yes	9.06E+00	N/A	2.20E+00	NO
MW369	Downgradient	Yes	1.24E+01	N/A	2.52E+00	NO
MW372	Downgradient	Yes	8.20E+00	N/A	2.10E+00	NO
MW384	Sidegradient	Yes	9.72E+00	N/A	2.27E+00	NO
MW387	Downgradient	No	1.00E+01	N/A	2.30E+00	N/A
MW391	Downgradient	Yes	9.54E+00	N/A	2.26E+00	NO
MW394	Upgradient	Yes	4.58E+00	N/A	1.52E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Zinc — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.036	**S=** 0.026	**CV(1)=** 0.722	**K factor**=** 2.523	**TL(1)=** 1.01E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.485	**S=** 0.525	**CV(2)=** -0.151	**K factor**=** 2.523	**TL(2)=** -2.16E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
10/14/2002	2.50E-02	-3.69E+00
1/15/2003	3.50E-02	-3.35E+00
4/10/2003	3.50E-02	-3.35E+00
7/14/2003	3.89E-02	-3.25E+00
10/13/2003	2.60E-02	-3.65E+00
1/13/2004	2.00E-02	-3.91E+00
4/13/2004	2.00E-02	-3.91E+00
7/21/2004	2.00E-02	-3.91E+00

Well Number: MW394

Date Collected	Result	LN(Result)
8/13/2002	1.00E-01	-2.30E+00
9/16/2002	1.00E-01	-2.30E+00
10/16/2002	2.50E-02	-3.69E+00
1/13/2003	3.50E-02	-3.35E+00
4/10/2003	3.50E-02	-3.35E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/13/2004	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	5.82E-03	NO	-5.15E+00	N/A
MW221	Sidegradient	Yes	1.04E-02	NO	-4.57E+00	N/A
MW222	Sidegradient	Yes	4.45E-03	NO	-5.41E+00	N/A
MW223	Sidegradient	Yes	6.64E-03	NO	-5.01E+00	N/A
MW224	Sidegradient	Yes	5.61E-03	NO	-5.18E+00	N/A
MW369	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW372	Downgradient	Yes	5.88E-03	NO	-5.14E+00	N/A
MW384	Sidegradient	Yes	5.57E-03	NO	-5.19E+00	N/A
MW387	Downgradient	Yes	6.60E-03	NO	-5.02E+00	N/A
MW391	Downgradient	Yes	1.57E-02	NO	-4.15E+00	N/A
MW394	Upgradient	Yes	4.66E-03	NO	-5.37E+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 = [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-S/T First Quarter 2026 Statistical Analysis Historical Background Comparison

Aluminum UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.258	**S=** 0.221	**CV(1)=** 0.856	**K factor**=** 2.523	**TL(1)=** 8.15E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -2.266	**S=** 2.485	**CV(2)=** -1.097	**K factor**=** 2.523	**TL(2)=** 4.00E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.00E-01	-1.61E+00
9/16/2002	2.00E-01	-1.61E+00
10/16/2002	2.00E-04	-8.52E+00
1/13/2003	7.37E-01	-3.05E-01
4/10/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/13/2004	2.00E-01	-1.61E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	8.24E-01	-1.94E-01
9/16/2002	2.00E-01	-1.61E+00
10/17/2002	2.00E-04	-8.52E+00
1/13/2003	3.63E-01	-1.01E+00
4/8/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/13/2004	2.00E-01	-1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW373	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW385	Sidegradient	Yes	3.07E-02	NO	-3.48E+00	N/A
MW388	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW392	Downgradient	Yes	1.95E-02	NO	-3.94E+00	N/A
MW395	Upgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW397	Upgradient	Yes	8.41E-02	NO	-2.48E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Boron — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.650	**S=** 0.805	**CV(1)=** 1.238	**K factor**=** 2.523	**TL(1)=** 2.68E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.034	**S=** 1.030	**CV(2)=** -0.996	**K factor**=** 2.523	**TL(2)=** 1.56E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/16/2002	2.00E-01	-1.61E+00
1/13/2003	2.00E-01	-1.61E+00
4/10/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/13/2004	2.00E-01	-1.61E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/17/2002	2.00E-01	-1.61E+00
1/13/2003	2.00E-01	-1.61E+00
4/8/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	2.00E-01	-1.61E+00
1/13/2004	2.00E-01	-1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	7.32E-02	N/A	-2.61E+00	NO
MW373	Downgradient	Yes	2.73E+00	N/A	1.00E+00	NO
MW385	Sidegradient	Yes	5.37E-02	N/A	-2.92E+00	NO
MW388	Downgradient	Yes	2.19E-02	N/A	-3.82E+00	NO
MW392	Downgradient	Yes	2.66E-02	N/A	-3.63E+00	NO
MW395	Upgradient	Yes	2.31E-02	N/A	-3.77E+00	NO
MW397	Upgradient	Yes	1.01E-02	N/A	-4.60E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Bromide — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.000	**S=** 0.000	**CV(1)=** 0.000	**K factor**=** 2.523	**TL(1)=** 1.00E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.000	**S=** 0.000	**CV(2)=** #Num!	**K factor**=** 2.523	**TL(2)=** 0.00E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	1.00E+00	0.00E+00
9/16/2002	1.00E+00	0.00E+00
10/16/2002	1.00E+00	0.00E+00
1/13/2003	1.00E+00	0.00E+00
4/10/2003	1.00E+00	0.00E+00
7/16/2003	1.00E+00	0.00E+00
10/14/2003	1.00E+00	0.00E+00
1/13/2004	1.00E+00	0.00E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.00E+00	0.00E+00
9/16/2002	1.00E+00	0.00E+00
10/17/2002	1.00E+00	0.00E+00
1/13/2003	1.00E+00	0.00E+00
4/8/2003	1.00E+00	0.00E+00
7/16/2003	1.00E+00	0.00E+00
10/14/2003	1.00E+00	0.00E+00
1/13/2004	1.00E+00	0.00E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	5.17E-01	NO	-6.60E-01	N/A
MW373	Downgradient	Yes	4.76E-01	NO	-7.42E-01	N/A
MW385	Sidegradient	Yes	2.01E-01	NO	-1.60E+00	N/A
MW388	Downgradient	No	8.00E-01	N/A	-2.23E-01	N/A
MW392	Downgradient	Yes	5.25E-01	NO	-6.44E-01	N/A
MW395	Upgradient	Yes	5.50E-01	NO	-5.98E-01	N/A
MW397	Upgradient	Yes	3.66E-01	NO	-1.01E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Calcium — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 23.103	**S=** 11.538	**CV(1)=** 0.499	**K factor**=** 2.523	**TL(1)=** 5.22E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.357	**S=** 2.411	**CV(2)=** 1.023	**K factor**=** 2.523	**TL(2)=** 8.44E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	3.22E+01	3.47E+00
9/16/2002	3.30E+01	3.50E+00
10/16/2002	2.95E-02	-3.52E+00
1/13/2003	3.21E+01	3.47E+00
4/10/2003	4.02E+01	3.69E+00
7/16/2003	3.24E+01	3.48E+00
10/14/2003	3.39E+01	3.52E+00
1/13/2004	3.12E+01	3.44E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.94E+01	2.97E+00
9/16/2002	1.90E+01	2.94E+00
10/17/2002	1.79E-02	-4.02E+00
1/13/2003	1.78E+01	2.88E+00
4/8/2003	2.03E+01	3.01E+00
7/16/2003	1.94E+01	2.97E+00
10/14/2003	1.99E+01	2.99E+00
1/13/2004	1.88E+01	2.93E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	2.67E+01	NO	3.28E+00	N/A
MW373	Downgradient	Yes	8.85E+01	YES	4.48E+00	N/A
MW385	Sidegradient	Yes	2.73E+01	NO	3.31E+00	N/A
MW388	Downgradient	Yes	2.40E+01	NO	3.18E+00	N/A
MW392	Downgradient	Yes	2.40E+01	NO	3.18E+00	N/A
MW395	Upgradient	Yes	2.75E+01	NO	3.31E+00	N/A
MW397	Upgradient	Yes	1.83E+01	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

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Chemical Oxygen Demand (COD) — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 35.313	**S=** 1.250	**CV(1)=** 0.035	**K factor**=** 2.523	**TL(1)=** 3.85E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.564	**S=** 0.033	**CV(2)=** 0.009	**K factor**=** 2.523	**TL(2)=** 3.65E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	3.50E+01	3.56E+00
9/16/2002	3.50E+01	3.56E+00
10/16/2002	3.50E+01	3.56E+00
1/13/2003	3.50E+01	3.56E+00
4/10/2003	3.50E+01	3.56E+00
7/16/2003	3.50E+01	3.56E+00
10/14/2003	3.50E+01	3.56E+00
1/13/2004	3.50E+01	3.56E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	4.00E+01	3.69E+00
9/16/2002	3.50E+01	3.56E+00
10/17/2002	3.50E+01	3.56E+00
1/13/2003	3.50E+01	3.56E+00
4/8/2003	3.50E+01	3.56E+00
7/16/2003	3.50E+01	3.56E+00
10/14/2003	3.50E+01	3.56E+00
1/13/2004	3.50E+01	3.56E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW373	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW385	Sidegradient	No	2.00E+01	N/A	3.00E+00	N/A
MW388	Downgradient	Yes	2.50E+01	NO	3.22E+00	N/A
MW392	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW395	Upgradient	Yes	9.14E+00	NO	2.21E+00	N/A
MW397	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Chloride — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 51.844	**S=** 11.652	**CV(1)=** 0.225	**K factor**=** 2.523	**TL(1)=** 8.12E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.924	**S=** 0.229	**CV(2)=** 0.058	**K factor**=** 2.523	**TL(2)=** 4.50E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	6.22E+01	4.13E+00
9/16/2002	6.47E+01	4.17E+00
10/16/2002	6.22E+01	4.13E+00
1/13/2003	6.35E+01	4.15E+00
4/10/2003	6.41E+01	4.16E+00
7/16/2003	6.40E+01	4.16E+00
10/14/2003	6.32E+01	4.15E+00
1/13/2004	6.06E+01	4.10E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	3.89E+01	3.66E+00
9/16/2002	3.98E+01	3.68E+00
10/17/2002	3.93E+01	3.67E+00
1/13/2003	4.05E+01	3.70E+00
4/8/2003	4.21E+01	3.74E+00
7/16/2003	4.20E+01	3.74E+00
10/14/2003	4.08E+01	3.71E+00
1/13/2004	4.16E+01	3.73E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	4.00E+01	NO	3.69E+00	N/A
MW373	Downgradient	Yes	2.99E+01	NO	3.40E+00	N/A
MW385	Sidegradient	Yes	1.88E+01	NO	2.93E+00	N/A
MW388	Downgradient	Yes	3.61E+01	NO	3.59E+00	N/A
MW392	Downgradient	Yes	4.35E+01	NO	3.77E+00	N/A
MW395	Upgradient	Yes	4.30E+01	NO	3.76E+00	N/A
MW397	Upgradient	Yes	3.30E+01	NO	3.50E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

cis-1,2-Dichloroethene — UNITS: ug/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 5.000	**S=** 0.000	**CV(1)=** 0.000	**K factor**=** 2.523	**TL(1)=** 5.00E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.609	**S=** 0.000	**CV(2)=** 0.000	**K factor**=** 2.523	**TL(2)=** 1.61E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	5.00E+00	1.61E+00
9/30/2002	5.00E+00	1.61E+00
10/16/2002	5.00E+00	1.61E+00
1/13/2003	5.00E+00	1.61E+00
4/10/2003	5.00E+00	1.61E+00
7/16/2003	5.00E+00	1.61E+00
10/14/2003	5.00E+00	1.61E+00
1/13/2004	5.00E+00	1.61E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	5.00E+00	1.61E+00
9/30/2002	5.00E+00	1.61E+00
10/17/2002	5.00E+00	1.61E+00
1/13/2003	5.00E+00	1.61E+00
4/8/2003	5.00E+00	1.61E+00
7/16/2003	5.00E+00	1.61E+00
10/14/2003	5.00E+00	1.61E+00
1/13/2004	5.00E+00	1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	1.00E+00	N/A	0.00E+00	N/A
MW373	Downgradient	No	1.00E+00	N/A	0.00E+00	N/A
MW385	Sidegradient	No	1.00E+00	N/A	0.00E+00	N/A
MW388	Downgradient	No	1.00E+00	N/A	0.00E+00	N/A
MW392	Downgradient	Yes	3.70E-01	NO	-9.94E-01	N/A
MW395	Upgradient	No	1.00E+00	N/A	0.00E+00	N/A
MW397	Upgradient	No	1.00E+00	N/A	0.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Cobalt — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.007	**S=** 0.011	**CV(1)=** 1.515	**K factor**=** 2.523	**TL(1)=** 3.41E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -6.053	**S=** 1.416	**CV(2)=** -0.234	**K factor**=** 2.523	**TL(2)=** -2.48E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/16/2002	1.00E-03	-6.91E+00
1/13/2003	1.48E-03	-6.52E+00
4/10/2003	1.51E-03	-6.50E+00
7/16/2003	1.00E-03	-6.91E+00
10/14/2003	1.00E-03	-6.91E+00
1/13/2004	1.00E-03	-6.91E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/17/2002	1.00E-03	-6.91E+00
1/13/2003	1.00E-03	-6.91E+00
4/8/2003	1.00E-03	-6.91E+00
7/16/2003	1.00E-03	-6.91E+00
10/14/2003	1.00E-03	-6.91E+00
1/13/2004	1.00E-03	-6.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW373	Downgradient	Yes	9.37E-04	N/A	-6.97E+00	NO
MW385	Sidegradient	Yes	7.10E-04	N/A	-7.25E+00	NO
MW388	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW392	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW395	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW397	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Conductivity — UNITS: umho/cm — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 377.875	**S=** 52.101	**CV(1)=** 0.138	**K factor**=** 2.523	**TL(1)=** 5.09E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.926	**S=** 0.136	**CV(2)=** 0.023	**K factor**=** 2.523	**TL(2)=** 6.27E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	4.05E+02	6.00E+00
9/16/2002	4.01E+02	5.99E+00
10/16/2002	3.92E+02	5.97E+00
1/13/2003	4.04E+02	6.00E+00
4/10/2003	4.88E+02	6.19E+00
7/16/2003	4.50E+02	6.11E+00
10/14/2003	4.10E+02	6.02E+00
1/13/2004	4.13E+02	6.02E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	3.22E+02	5.77E+00
9/16/2002	3.15E+02	5.75E+00
10/17/2002	3.17E+02	5.76E+00
1/13/2003	3.20E+02	5.77E+00
4/8/2003	3.90E+02	5.97E+00
7/16/2003	3.54E+02	5.87E+00
10/14/2003	3.31E+02	5.80E+00
1/13/2004	3.34E+02	5.81E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	4.15E+02	NO	6.03E+00	N/A
MW373	Downgradient	Yes	9.42E+02	YES	6.85E+00	N/A
MW385	Sidegradient	Yes	4.31E+02	NO	6.07E+00	N/A
MW388	Downgradient	Yes	4.39E+02	NO	6.08E+00	N/A
MW392	Downgradient	Yes	3.06E+02	NO	5.72E+00	N/A
MW395	Upgradient	Yes	3.93E+02	NO	5.97E+00	N/A
MW397	Upgradient	Yes	2.78E+02	NO	5.63E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Copper — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.028	**S=** 0.013	**CV(1)=** 0.474	**K factor**=** 2.523	**TL(1)=** 6.15E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.662	**S=** 0.406	**CV(2)=** -0.111	**K factor**=** 2.523	**TL(2)=** -2.64E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/16/2002	2.81E-02	-3.57E+00
1/13/2003	2.00E-02	-3.91E+00
4/10/2003	2.00E-02	-3.91E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/13/2004	2.00E-02	-3.91E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/17/2002	2.00E-02	-3.91E+00
1/13/2003	2.00E-02	-3.91E+00
4/8/2003	2.00E-02	-3.91E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/13/2004	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	1.16E-03	NO	-6.76E+00	N/A
MW373	Downgradient	Yes	1.38E-03	NO	-6.59E+00	N/A
MW385	Sidegradient	Yes	1.93E-03	NO	-6.25E+00	N/A
MW388	Downgradient	Yes	1.88E-03	NO	-6.28E+00	N/A
MW392	Downgradient	Yes	1.68E-03	NO	-6.39E+00	N/A
MW395	Upgradient	Yes	1.08E-03	NO	-6.83E+00	N/A
MW397	Upgradient	Yes	2.52E-03	NO	-5.98E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Dissolved Oxygen — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 4.678	**S=** 2.431	**CV(1)=** 0.520	**K factor**=** 2.523	**TL(1)=** 1.08E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.414	**S=** 0.550	**CV(2)=** 0.389	**K factor**=** 2.523	**TL(2)=** 2.80E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	7.29E+00	1.99E+00
9/30/2002	4.03E+00	1.39E+00
10/16/2002	3.85E+00	1.35E+00
1/13/2003	2.36E+00	8.59E-01
4/10/2003	1.14E+00	1.31E-01
7/16/2003	1.76E+00	5.65E-01
10/14/2003	4.05E+00	1.40E+00
1/13/2004	4.26E+00	1.45E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.16E+01	2.45E+00
9/16/2002	5.86E+00	1.77E+00
10/17/2002	5.94E+00	1.78E+00
1/13/2003	4.66E+00	1.54E+00
4/8/2003	3.77E+00	1.33E+00
7/16/2003	3.47E+00	1.24E+00
10/14/2003	5.34E+00	1.68E+00
1/13/2004	5.51E+00	1.71E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	5.29E+00	NO	1.67E+00	N/A
MW373	Downgradient	Yes	2.01E+00	NO	6.98E-01	N/A
MW385	Sidegradient	Yes	1.99E+00	NO	6.88E-01	N/A
MW388	Downgradient	Yes	5.93E+00	NO	1.78E+00	N/A
MW392	Downgradient	Yes	2.83E+00	NO	1.04E+00	N/A
MW395	Upgradient	Yes	5.46E+00	NO	1.70E+00	N/A
MW397	Upgradient	Yes	6.42E+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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Dissolved Solids — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 219.250	**S=** 34.107	**CV(1)=** 0.156	**K factor**=** 2.523	**TL(1)=** 3.05E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.379	**S=** 0.152	**CV(2)=** 0.028	**K factor**=** 2.523	**TL(2)=** 5.76E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.49E+02	5.52E+00
9/16/2002	2.72E+02	5.61E+00
10/16/2002	2.55E+02	5.54E+00
1/13/2003	2.11E+02	5.35E+00
4/10/2003	2.89E+02	5.67E+00
7/16/2003	2.36E+02	5.46E+00
10/14/2003	2.24E+02	5.41E+00
1/13/2004	2.35E+02	5.46E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.87E+02	5.23E+00
9/16/2002	1.97E+02	5.28E+00
10/17/2002	1.83E+02	5.21E+00
1/13/2003	1.82E+02	5.20E+00
4/8/2003	2.17E+02	5.38E+00
7/16/2003	1.96E+02	5.28E+00
10/14/2003	1.98E+02	5.29E+00
1/13/2004	1.77E+02	5.18E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	2.15E+02	NO	5.37E+00	N/A
MW373	Downgradient	Yes	6.66E+02	YES	6.50E+00	N/A
MW385	Sidegradient	Yes	2.19E+02	NO	5.39E+00	N/A
MW388	Downgradient	Yes	2.11E+02	NO	5.35E+00	N/A
MW392	Downgradient	Yes	1.67E+02	NO	5.12E+00	N/A
MW395	Upgradient	Yes	2.00E+02	NO	5.30E+00	N/A
MW397	Upgradient	Yes	1.92E+02	NO	5.26E+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

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Iron — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.400	**S=** 0.514	**CV(1)=** 1.286	**K factor**=** 2.523	**TL(1)=** 1.70E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -2.197	**S=** 2.634	**CV(2)=** -1.199	**K factor**=** 2.523	**TL(2)=** 4.45E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.94E-01	-1.22E+00
9/16/2002	2.00E-01	-1.61E+00
10/16/2002	2.00E-04	-8.52E+00
1/13/2003	1.33E+00	2.85E-01
4/10/2003	1.31E+00	2.70E-01
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	1.00E-01	-2.30E+00
1/13/2004	1.00E-01	-2.30E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.58E+00	4.57E-01
9/16/2002	2.32E-01	-1.46E+00
10/17/2002	2.00E-04	-8.52E+00
1/13/2003	4.53E-01	-7.92E-01
4/8/2003	2.00E-01	-1.61E+00
7/16/2003	2.00E-01	-1.61E+00
10/14/2003	1.00E-01	-2.30E+00
1/13/2004	1.00E-01	-2.30E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW373	Downgradient	Yes	6.00E-02	N/A	-2.81E+00	NO
MW385	Sidegradient	Yes	5.16E-02	N/A	-2.96E+00	NO
MW388	Downgradient	Yes	3.51E-02	N/A	-3.35E+00	NO
MW392	Downgradient	Yes	4.09E-02	N/A	-3.20E+00	NO
MW395	Upgradient	Yes	3.53E-02	N/A	-3.34E+00	NO
MW397	Upgradient	Yes	1.68E-01	N/A	-1.78E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Magnesium — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 9.102	**S=** 4.685	**CV(1)=** 0.515	**K factor**=** 2.523	**TL(1)=** 2.09E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.423	**S=** 2.408	**CV(2)=** 1.692	**K factor**=** 2.523	**TL(2)=** 7.50E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	1.25E+01	2.53E+00
9/16/2002	1.30E+01	2.56E+00
10/16/2002	1.27E-02	-4.37E+00
1/13/2003	1.12E+01	2.42E+00
4/10/2003	1.75E+01	2.86E+00
7/16/2003	1.29E+01	2.56E+00
10/14/2003	1.34E+01	2.60E+00
1/13/2004	1.24E+01	2.52E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	7.83E+00	2.06E+00
9/16/2002	7.64E+00	2.03E+00
10/17/2002	6.58E-03	-5.02E+00
1/13/2003	6.69E+00	1.90E+00
4/8/2003	7.28E+00	1.99E+00
7/16/2003	7.82E+00	2.06E+00
10/14/2003	7.94E+00	2.07E+00
1/13/2004	7.51E+00	2.02E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	1.13E+01	NO	2.42E+00	N/A
MW373	Downgradient	Yes	3.17E+01	YES	3.46E+00	N/A
MW385	Sidegradient	Yes	1.10E+01	NO	2.40E+00	N/A
MW388	Downgradient	Yes	1.07E+01	NO	2.37E+00	N/A
MW392	Downgradient	Yes	1.07E+01	NO	2.37E+00	N/A
MW395	Upgradient	Yes	1.19E+01	NO	2.48E+00	N/A
MW397	Upgradient	Yes	7.68E+00	NO	2.04E+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

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Manganese — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.131	**S=** 0.195	**CV(1)=** 1.487	**K factor**=** 2.523	**TL(1)=** 6.24E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.104	**S=** 1.529	**CV(2)=** -0.493	**K factor**=** 2.523	**TL(2)=** 7.55E-01	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	3.61E-01	-1.02E+00
9/16/2002	2.80E-02	-3.58E+00
10/16/2002	2.60E-02	-3.65E+00
1/13/2003	7.13E-02	-2.64E+00
4/10/2003	6.29E-01	-4.64E-01
7/16/2003	2.97E-01	-1.21E+00
10/14/2003	1.98E-02	-3.92E+00
1/13/2004	1.26E-02	-4.37E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	4.66E-01	-7.64E-01
9/16/2002	7.70E-02	-2.56E+00
10/17/2002	2.80E-02	-3.58E+00
1/13/2003	1.64E-02	-4.11E+00
4/8/2003	4.07E-02	-3.20E+00
7/16/2003	1.67E-02	-4.09E+00
10/14/2003	5.55E-03	-5.19E+00
1/13/2004	5.00E-03	-5.30E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	5.00E-03	N/A	-5.30E+00	N/A
MW373	Downgradient	Yes	9.74E-02	N/A	-2.33E+00	NO
MW385	Sidegradient	Yes	1.04E-02	N/A	-4.57E+00	NO
MW388	Downgradient	No	5.00E-03	N/A	-5.30E+00	N/A
MW392	Downgradient	Yes	6.23E-02	N/A	-2.78E+00	NO
MW395	Upgradient	Yes	1.13E-03	N/A	-6.79E+00	NO
MW397	Upgradient	Yes	3.15E-03	N/A	-5.76E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 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(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 5.625	**S=** 3.074	**CV(1)=** 0.547	**K factor**=** 2.523	**TL(1)=** 1.34E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.614	**S=** 0.483	**CV(2)=** 0.300	**K factor**=** 2.523	**TL(2)=** 2.83E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	1.40E+01	2.64E+00
9/30/2002	2.00E+00	6.93E-01
10/16/2002	5.00E+00	1.61E+00
1/13/2003	5.00E+00	1.61E+00
4/10/2003	5.00E+00	1.61E+00
7/16/2003	5.00E+00	1.61E+00
10/14/2003	5.00E+00	1.61E+00
1/13/2004	5.00E+00	1.61E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.20E+01	2.48E+00
9/30/2002	2.00E+00	6.93E-01
10/17/2002	5.00E+00	1.61E+00
1/13/2003	5.00E+00	1.61E+00
4/8/2003	5.00E+00	1.61E+00
7/16/2003	5.00E+00	1.61E+00
10/14/2003	5.00E+00	1.61E+00
1/13/2004	5.00E+00	1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW373	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW385	Sidegradient	No	5.00E+00	N/A	1.61E+00	N/A
MW388	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW392	Downgradient	Yes	2.06E+00	NO	7.23E-01	N/A
MW395	Upgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW397	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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Molybdenum — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.007	**S=** 0.011	**CV(1)=** 1.451	**K factor**=** 2.523	**TL(1)=** 3.41E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -5.990	**S=** 1.443	**CV(2)=** -0.241	**K factor**=** 2.523	**TL(2)=** -2.35E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/16/2002	1.00E-03	-6.91E+00
1/13/2003	6.09E-03	-5.10E+00
4/10/2003	1.00E-03	-6.91E+00
7/16/2003	1.00E-03	-6.91E+00
10/14/2003	1.00E-03	-6.91E+00
1/13/2004	1.00E-03	-6.91E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	2.50E-02	-3.69E+00
9/16/2002	2.50E-02	-3.69E+00
10/17/2002	1.00E-03	-6.91E+00
1/13/2003	1.00E-03	-6.91E+00
4/8/2003	1.00E-03	-6.91E+00
7/16/2003	1.00E-03	-6.91E+00
10/14/2003	1.00E-03	-6.91E+00
1/13/2004	1.00E-03	-6.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW373	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW385	Sidegradient	Yes	5.22E-04	N/A	-7.56E+00	NO
MW388	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW392	Downgradient	Yes	2.03E-04	N/A	-8.50E+00	NO
MW395	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW397	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Nickel — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.018	**S=** 0.020	**CV(1)=** 1.089	**K factor**=** 2.523	**TL(1)=** 6.83E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -4.540	**S=** 1.020	**CV(2)=** -0.225	**K factor**=** 2.523	**TL(2)=** -1.97E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/16/2002	7.02E-03	-4.96E+00
1/13/2003	2.90E-02	-3.54E+00
4/10/2003	9.10E-03	-4.70E+00
7/16/2003	6.27E-03	-5.07E+00
10/14/2003	5.00E-03	-5.30E+00
1/13/2004	5.00E-03	-5.30E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	5.00E-02	-3.00E+00
9/16/2002	5.00E-02	-3.00E+00
10/17/2002	5.00E-03	-5.30E+00
1/13/2003	5.02E-03	-5.29E+00
4/8/2003	5.00E-03	-5.30E+00
7/16/2003	5.00E-03	-5.30E+00
10/14/2003	5.00E-03	-5.30E+00
1/13/2004	5.00E-03	-5.30E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW373	Downgradient	Yes	1.65E-03	N/A	-6.41E+00	NO
MW385	Sidegradient	Yes	2.22E-03	N/A	-6.11E+00	NO
MW388	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW392	Downgradient	Yes	1.15E-03	N/A	-6.77E+00	NO
MW395	Upgradient	Yes	6.51E-04	N/A	-7.34E+00	NO
MW397	Upgradient	Yes	6.44E-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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Oxidation-Reduction Potential — UNITS: mV — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 157.250	**S=** 52.376	**CV(1)=** 0.333	**K factor**=** 2.523	**TL(1)=** 2.89E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.003	**S=** 0.348	**CV(2)=** 0.069	**K factor**=** 2.523	**TL(2)=** 5.88E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	8.00E+01	4.38E+00
9/16/2002	1.45E+02	4.98E+00
10/16/2002	1.25E+02	4.83E+00
1/13/2003	8.50E+01	4.44E+00
4/10/2003	1.59E+02	5.07E+00
7/16/2003	9.80E+01	4.58E+00
10/14/2003	1.38E+02	4.93E+00
1/13/2004	2.33E+02	5.45E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.15E+02	4.74E+00
9/30/2002	1.40E+02	4.94E+00
10/17/2002	1.85E+02	5.22E+00
1/13/2003	2.30E+02	5.44E+00
4/8/2003	1.55E+02	5.04E+00
7/16/2003	1.88E+02	5.24E+00
10/14/2003	1.87E+02	5.23E+00
1/13/2004	2.53E+02	5.53E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	4.57E+02	YES	6.13E+00	N/A
MW373	Downgradient	Yes	4.78E+02	YES	6.17E+00	N/A
MW385	Sidegradient	Yes	4.97E+02	YES	6.21E+00	N/A
MW388	Downgradient	Yes	5.26E+02	YES	6.26E+00	N/A
MW392	Downgradient	Yes	3.37E+02	YES	5.82E+00	N/A
MW395	Upgradient	Yes	5.42E+02	YES	6.29E+00	N/A
MW397	Upgradient	Yes	3.70E+02	YES	5.91E+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

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

MW370
MW373
MW385
MW388
MW392
MW395
MW397

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-S/T First Quarter 2026 Statistical Analysis Historical Background Comparison

pH UNITS: Std Unit LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.048	**S=** 0.248	**CV(1)=** 0.041	**K factor**=** 2.904	**TL(1)=** 6.77E+00	**LL(1)=** 5.33E+00
Statistics-Transformed Background Data	**X=** 1.799	**S=** 0.042	**CV(2)=** 0.023	**K factor**=** 2.904	**TL(2)=** 1.92E+00	**LL(2)=** 1.68E+00

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW395	
Date Collected	Result	LN(Result)
8/13/2002	5.80E+00	1.76E+00
9/16/2002	6.00E+00	1.79E+00
10/16/2002	5.47E+00	1.70E+00
1/13/2003	6.00E+00	1.79E+00
4/10/2003	6.18E+00	1.82E+00
7/16/2003	6.00E+00	1.79E+00
10/14/2003	6.31E+00	1.84E+00
1/13/2004	6.24E+00	1.83E+00

Well Number:	MW397	
Date Collected	Result	LN(Result)
8/13/2002	5.84E+00	1.76E+00
9/30/2002	6.00E+00	1.79E+00
10/17/2002	5.75E+00	1.75E+00
1/13/2003	6.00E+00	1.79E+00
4/8/2003	6.30E+00	1.84E+00
7/16/2003	6.20E+00	1.82E+00
10/14/2003	6.36E+00	1.85E+00
1/13/2004	6.32E+00	1.84E+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)?
MW370	Downgradient	Yes	5.91E+00	NO	1.78E+00	N/A
MW373	Downgradient	Yes	5.87E+00	NO	1.77E+00	N/A
MW385	Sidegradient	Yes	6.23E+00	NO	1.83E+00	N/A
MW388	Downgradient	Yes	5.94E+00	NO	1.78E+00	N/A
MW392	Downgradient	Yes	6.01E+00	NO	1.79E+00	N/A
MW395	Upgradient	Yes	5.74E+00	NO	1.75E+00	N/A
MW397	Upgradient	Yes	5.97E+00	NO	1.79E+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 = [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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Potassium — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.590	**S=** 0.642	**CV(1)=** 0.404	**K factor**=** 2.523	**TL(1)=** 3.21E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.306	**S=** 2.457	**CV(2)=** -8.028	**K factor**=** 2.523	**TL(2)=** 5.89E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.00E+00	6.93E-01
9/16/2002	2.00E+00	6.93E-01
10/16/2002	1.29E-03	-6.65E+00
1/13/2003	1.51E+00	4.12E-01
4/10/2003	1.67E+00	5.13E-01
7/16/2003	1.73E+00	5.48E-01
10/14/2003	1.70E+00	5.31E-01
1/13/2004	1.58E+00	4.57E-01

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	2.03E+00	7.08E-01
9/16/2002	2.00E+00	6.93E-01
10/17/2002	1.45E-03	-6.54E+00
1/13/2003	1.69E+00	5.25E-01
4/8/2003	1.73E+00	5.48E-01
7/16/2003	2.00E+00	6.93E-01
10/14/2003	1.92E+00	6.52E-01
1/13/2004	1.87E+00	6.26E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	2.45E+00	NO	8.96E-01	N/A
MW373	Downgradient	Yes	2.97E+00	NO	1.09E+00	N/A
MW385	Sidegradient	Yes	1.60E+00	NO	4.70E-01	N/A
MW388	Downgradient	Yes	1.71E+00	NO	5.36E-01	N/A
MW392	Downgradient	Yes	2.07E+00	NO	7.28E-01	N/A
MW395	Upgradient	Yes	1.60E+00	NO	4.70E-01	N/A
MW397	Upgradient	Yes	1.76E+00	NO	5.65E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Sodium — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 29.560	**S=** 13.894	**CV(1)=** 0.470	**K factor**=** 2.523	**TL(1)=** 6.46E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.615	**S=** 2.411	**CV(2)=** 0.922	**K factor**=** 2.523	**TL(2)=** 8.70E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.70E+01	3.30E+00
9/16/2002	2.72E+01	3.30E+00
10/16/2002	2.53E-02	-3.68E+00
1/13/2003	2.26E+01	3.12E+00
4/10/2003	5.39E+01	3.99E+00
7/16/2003	3.00E+01	3.40E+00
10/14/2003	2.91E+01	3.37E+00
1/13/2004	2.64E+01	3.27E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	3.52E+01	3.56E+00
9/16/2002	3.43E+01	3.54E+00
10/17/2002	3.36E-02	-3.39E+00
1/13/2003	3.13E+01	3.44E+00
4/8/2003	4.61E+01	3.83E+00
7/16/2003	3.84E+01	3.65E+00
10/14/2003	3.71E+01	3.61E+00
1/13/2004	3.43E+01	3.54E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	4.11E+01	NO	3.72E+00	N/A
MW373	Downgradient	Yes	7.26E+01	YES	4.28E+00	N/A
MW385	Sidegradient	Yes	3.63E+01	NO	3.59E+00	N/A
MW388	Downgradient	Yes	4.36E+01	NO	3.78E+00	N/A
MW392	Downgradient	Yes	2.51E+01	NO	3.22E+00	N/A
MW395	Upgradient	Yes	3.22E+01	NO	3.47E+00	N/A
MW397	Upgradient	Yes	3.33E+01	NO	3.51E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Sulfate — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 10.756	**S=** 2.147	**CV(1)=** 0.200	**K factor**=** 2.523	**TL(1)=** 1.62E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.356	**S=** 0.203	**CV(2)=** 0.086	**K factor**=** 2.523	**TL(2)=** 2.87E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	1.03E+01	2.33E+00
9/16/2002	9.10E+00	2.21E+00
10/16/2002	8.80E+00	2.17E+00
1/13/2003	9.00E+00	2.20E+00
4/10/2003	8.30E+00	2.12E+00
7/16/2003	8.20E+00	2.10E+00
10/14/2003	8.30E+00	2.12E+00
1/13/2004	8.20E+00	2.10E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.40E+01	2.64E+00
9/16/2002	1.28E+01	2.55E+00
10/17/2002	1.23E+01	2.51E+00
1/13/2003	1.27E+01	2.54E+00
4/8/2003	1.28E+01	2.55E+00
7/16/2003	1.31E+01	2.57E+00
10/14/2003	1.21E+01	2.49E+00
1/13/2004	1.21E+01	2.49E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	1.92E+01	YES	2.95E+00	N/A
MW373	Downgradient	Yes	2.21E+02	YES	5.40E+00	N/A
MW385	Sidegradient	Yes	1.73E+01	YES	2.85E+00	N/A
MW388	Downgradient	Yes	1.69E+01	YES	2.83E+00	N/A
MW392	Downgradient	Yes	7.52E+00	NO	2.02E+00	N/A
MW395	Upgradient	Yes	1.11E+01	NO	2.41E+00	N/A
MW397	Upgradient	Yes	1.15E+01	NO	2.44E+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

MW370
MW373
MW385
MW388

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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Technetium-99 — UNITS: pCi/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 11.359	**S=** 9.138	**CV(1)=** 0.805	**K factor**=** 2.523	**TL(1)=** 3.44E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.398	**S=** 0.859	**CV(2)=** 0.358	**K factor**=** 2.523	**TL(2)=** 3.25E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	2.08E+01	3.03E+00
9/16/2002	1.62E+01	2.79E+00
10/16/2002	8.28E+00	2.11E+00
1/13/2003	1.30E+01	2.56E+00
4/10/2003	-9.37E+00	#Func!
7/16/2003	8.26E-01	-1.91E-01
10/14/2003	1.41E+01	2.65E+00
1/13/2004	0.00E+00	#Func!

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	6.06E+00	1.80E+00
9/16/2002	1.73E+01	2.85E+00
10/17/2002	2.57E+01	3.25E+00
1/13/2003	2.09E+01	3.04E+00
4/8/2003	2.01E+01	3.00E+00
7/16/2003	9.20E+00	2.22E+00
10/14/2003	1.01E+01	2.31E+00
1/13/2004	8.54E+00	2.14E+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(2) was considered equal to the maximum background value.

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	4.54E+00	N/A	1.51E+00	N/A
MW373	Downgradient	No	1.21E+00	N/A	1.91E-01	N/A
MW385	Sidegradient	Yes	4.54E+01	YES	3.82E+00	N/A
MW388	Downgradient	Yes	2.31E+01	NO	3.14E+00	N/A
MW392	Downgradient	No	-5.34E-01	N/A	#Error	N/A
MW395	Upgradient	No	1.38E+01	N/A	2.62E+00	N/A
MW397	Upgradient	No	5.32E+00	N/A	1.67E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW385

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-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Total Organic Carbon (TOC) — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.544	**S=** 0.856	**CV(1)=** 0.554	**K factor**=** 2.523	**TL(1)=** 3.70E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.325	**S=** 0.452	**CV(2)=** 1.393	**K factor**=** 2.523	**TL(2)=** 1.46E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	1.60E+00	4.70E-01
9/16/2002	1.10E+00	9.53E-02
10/16/2002	1.00E+00	0.00E+00
1/13/2003	2.00E+00	6.93E-01
4/10/2003	3.40E+00	1.22E+00
7/16/2003	2.00E+00	6.93E-01
10/14/2003	1.00E+00	0.00E+00
1/13/2004	1.00E+00	0.00E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.00E+00	0.00E+00
9/16/2002	1.00E+00	0.00E+00
10/17/2002	1.00E+00	0.00E+00
1/13/2003	3.60E+00	1.28E+00
4/8/2003	1.90E+00	6.42E-01
7/16/2003	1.10E+00	9.53E-02
10/14/2003	1.00E+00	0.00E+00
1/13/2004	1.00E+00	0.00E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	6.17E-01	NO	-4.83E-01	N/A
MW373	Downgradient	Yes	1.52E+00	NO	4.19E-01	N/A
MW385	Sidegradient	Yes	1.04E+00	NO	3.92E-02	N/A
MW388	Downgradient	Yes	1.04E+00	NO	3.92E-02	N/A
MW392	Downgradient	Yes	5.72E-01	NO	-5.59E-01	N/A
MW395	Upgradient	Yes	6.83E-01	NO	-3.81E-01	N/A
MW397	Upgradient	Yes	5.81E-01	NO	-5.43E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Total Organic Halides (TOX) — UNITS: ug/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 31.513	**S=** 18.609	**CV(1)=** 0.591	**K factor**=** 2.523	**TL(1)=** 7.85E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.240	**S=** 0.707	**CV(2)=** 0.218	**K factor**=** 2.523	**TL(2)=** 5.02E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	5.00E+01	3.91E+00
9/16/2002	5.00E+01	3.91E+00
10/16/2002	5.00E+01	3.91E+00
1/13/2003	1.83E+01	2.91E+00
4/10/2003	5.12E+01	3.94E+00
7/16/2003	4.26E+01	3.75E+00
10/14/2003	1.23E+01	2.51E+00
1/13/2004	1.00E+01	2.30E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	5.00E+01	3.91E+00
9/16/2002	5.00E+01	3.91E+00
10/17/2002	5.00E+01	3.91E+00
1/13/2003	1.20E+01	2.48E+00
4/8/2003	1.99E+01	2.99E+00
7/16/2003	1.79E+01	2.88E+00
10/14/2003	1.00E+01	2.30E+00
1/13/2004	1.00E+01	2.30E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	7.02E+00	NO	1.95E+00	N/A
MW373	Downgradient	Yes	1.08E+01	NO	2.38E+00	N/A
MW385	Sidegradient	No	1.00E+01	N/A	2.30E+00	N/A
MW388	Downgradient	No	1.00E+01	N/A	2.30E+00	N/A
MW392	Downgradient	Yes	5.16E+00	NO	1.64E+00	N/A
MW395	Upgradient	No	1.00E+01	N/A	2.30E+00	N/A
MW397	Upgradient	No	1.00E+01	N/A	2.30E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Historical Background Comparison

Zinc — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.044	**S=** 0.034	**CV(1)=** 0.760	**K factor**=** 2.523	**TL(1)=** 1.29E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.342	**S=** 0.659	**CV(2)=** -0.197	**K factor**=** 2.523	**TL(2)=** -1.68E+00	**LL(2)=** N/A

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

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
8/13/2002	1.00E-01	-2.30E+00
9/16/2002	1.00E-01	-2.30E+00
10/16/2002	2.50E-02	-3.69E+00
1/13/2003	3.50E-02	-3.35E+00
4/10/2003	3.50E-02	-3.35E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/13/2004	2.00E-02	-3.91E+00

Well Number: MW397

Date Collected	Result	LN(Result)
8/13/2002	1.00E-01	-2.30E+00
9/16/2002	1.00E-01	-2.30E+00
10/17/2002	2.50E-02	-3.69E+00
1/13/2003	3.50E-02	-3.35E+00
4/8/2003	3.50E-02	-3.35E+00
7/16/2003	2.00E-02	-3.91E+00
10/14/2003	2.00E-02	-3.91E+00
1/13/2004	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW373	Downgradient	Yes	3.78E-03	NO	-5.58E+00	N/A
MW385	Sidegradient	Yes	4.91E-03	NO	-5.32E+00	N/A
MW388	Downgradient	Yes	4.62E-03	NO	-5.38E+00	N/A
MW392	Downgradient	Yes	6.64E-03	NO	-5.01E+00	N/A
MW395	Upgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW397	Upgradient	Yes	7.49E-03	NO	-4.89E+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 = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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ATTACHMENT D2

COMPARISON OF CURRENT DATA TO ONE-SIDED UPPER TOLERANCE INTERVAL TEST CALCULATED USING CURRENT BACKGROUND DATA

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C-746-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Oxidation-Reduction Potential — UNITS: mV — UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 403.738	**S=** 66.268	**CV(1)=** 0.164	**K factor**=** 3.188	**TL(1)=** 6.15E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.989	**S=** 0.164	**CV(2)=** 0.027	**K factor**=** 3.188	**TL(2)=** 6.51E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW396

Date Collected	Result	LN(Result)
1/30/2024	3.08E+02	5.73E+00
4/16/2024	3.53E+02	5.87E+00
7/24/2024	3.73E+02	5.92E+00
10/15/2024	4.40E+02	6.09E+00
1/29/2025	3.69E+02	5.91E+00
4/16/2025	4.67E+02	6.15E+00
7/24/2025	4.09E+02	6.01E+00
10/16/2025	5.11E+02	6.24E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW386	Sidegradient	Yes	2.48E+02	NO	5.51E+00	N/A
MW393	Downgradient	Yes	2.35E+02	NO	5.46E+00	N/A
MW396	Upgradient	Yes	5.40E+02	NO	6.29E+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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Beta activity — UNITS: pCi/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 11.396	**S=** 8.387	**CV(1)=** 0.736	**K factor**=** 2.523	**TL(1)=** 3.26E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.180	**S=** 0.755	**CV(2)=** 0.346	**K factor**=** 2.523	**TL(2)=** 4.09E+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: MW220

Date Collected	Result	LN(Result)
1/29/2024	1.82E+01	2.90E+00
4/11/2024	2.95E+01	3.38E+00
7/24/2024	1.76E+01	2.87E+00
10/14/2024	1.06E+01	2.36E+00
1/29/2025	9.86E+00	2.29E+00
4/14/2025	9.59E+00	2.26E+00
7/23/2025	1.54E+01	2.73E+00
10/15/2025	2.86E+01	3.35E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	3.38E+00	1.22E+00
4/16/2024	7.19E+00	1.97E+00
7/24/2024	3.93E+00	1.37E+00
10/15/2024	8.47E+00	2.14E+00
1/29/2025	4.58E+00	1.52E+00
4/16/2025	6.84E+00	1.92E+00
7/24/2025	6.56E+00	1.88E+00
10/16/2025	2.04E+00	7.13E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Downgradient	Yes	5.02E+01	YES	3.92E+00	N/A
MW387	Downgradient	Yes	8.74E+01	YES	4.47E+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

MW372
MW387

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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Calcium — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 25.256	**S=** 2.745	**CV(1)=** 0.109	**K factor**=** 2.523	**TL(1)=** 3.22E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.223	**S=** 0.115	**CV(2)=** 0.036	**K factor**=** 2.523	**TL(2)=** 3.51E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
1/29/2024	2.02E+01	3.01E+00
4/11/2024	2.33E+01	3.15E+00
7/24/2024	2.55E+01	3.24E+00
10/14/2024	2.05E+01	3.02E+00
1/29/2025	2.40E+01	3.18E+00
4/14/2025	2.62E+01	3.27E+00
7/23/2025	2.73E+01	3.31E+00
10/15/2025	2.05E+01	3.02E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	2.68E+01	3.29E+00
4/16/2024	2.79E+01	3.33E+00
7/24/2024	2.75E+01	3.31E+00
10/15/2024	2.66E+01	3.28E+00
1/29/2025	2.79E+01	3.33E+00
4/16/2025	2.80E+01	3.33E+00
7/24/2025	2.60E+01	3.26E+00
10/16/2025	2.59E+01	3.25E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Downgradient	Yes	7.02E+01	YES	4.25E+00	N/A
MW387	Downgradient	Yes	3.97E+01	YES	3.68E+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

MW372
MW387

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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Conductivity — UNITS: umho/cm — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 403.813	**S=** 35.626	**CV(1)=** 0.088	**K factor**=** 2.523	**TL(1)=** 4.94E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.997	**S=** 0.091	**CV(2)=** 0.015	**K factor**=** 2.523	**TL(2)=** 6.23E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
1/29/2024	3.31E+02	5.80E+00
4/11/2024	3.78E+02	5.93E+00
7/24/2024	4.17E+02	6.03E+00
10/14/2024	3.42E+02	5.83E+00
1/29/2025	4.63E+02	6.14E+00
4/14/2025	4.34E+02	6.07E+00
7/23/2025	4.26E+02	6.05E+00
10/15/2025	3.58E+02	5.88E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	4.07E+02	6.01E+00
4/16/2024	4.14E+02	6.03E+00
7/24/2024	4.00E+02	5.99E+00
10/15/2024	4.01E+02	5.99E+00
1/29/2025	4.36E+02	6.08E+00
4/16/2025	4.29E+02	6.06E+00
7/24/2025	4.05E+02	6.00E+00
10/16/2025	4.20E+02	6.04E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Downgradient	Yes	7.55E+02	YES	6.63E+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

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Dissolved Solids — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 196.125	**S=** 53.990	**CV(1)=** 0.275	**K factor**=** 2.523	**TL(1)=** 3.32E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.146	**S=** 0.765	**CV(2)=** 0.149	**K factor**=** 2.523	**TL(2)=** 7.07E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
1/29/2024	1.90E+02	5.25E+00
4/11/2024	1.98E+02	5.29E+00
7/24/2024	2.46E+02	5.51E+00
10/14/2024	1.81E+02	5.20E+00
1/29/2025	2.05E+02	5.32E+00
4/14/2025	2.36E+02	5.46E+00
7/23/2025	2.53E+02	5.53E+00
10/15/2025	1.89E+02	5.24E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	2.00E+02	5.30E+00
4/16/2024	1.92E+02	5.26E+00
7/24/2024	2.17E+02	5.38E+00
10/15/2024	2.11E+02	5.35E+00
1/29/2025	1.00E+01	2.30E+00
4/16/2025	2.22E+02	5.40E+00
7/24/2025	1.95E+02	5.27E+00
10/16/2025	1.93E+02	5.26E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Downgradient	Yes	4.78E+02	YES	6.17E+00	N/A
MW387	Downgradient	Yes	3.08E+02	NO	5.73E+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

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Magnesium — UNITS: mg/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 10.576	**S=** 1.217	**CV(1)=** 0.115	**K factor**=** 2.523	**TL(1)=** 1.36E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.352	**S=** 0.123	**CV(2)=** 0.052	**K factor**=** 2.523	**TL(2)=** 2.66E+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: MW220

Date Collected	Result	LN(Result)
1/29/2024	8.23E+00	2.11E+00
4/11/2024	9.96E+00	2.30E+00
7/24/2024	1.04E+01	2.34E+00
10/14/2024	8.55E+00	2.15E+00
1/29/2025	9.82E+00	2.28E+00
4/14/2025	1.11E+01	2.41E+00
7/23/2025	1.12E+01	2.42E+00
10/15/2025	8.46E+00	2.14E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	1.10E+01	2.40E+00
4/16/2024	1.16E+01	2.45E+00
7/24/2024	1.15E+01	2.44E+00
10/15/2024	1.14E+01	2.43E+00
1/29/2025	1.17E+01	2.46E+00
4/16/2025	1.18E+01	2.47E+00
7/24/2025	1.11E+01	2.41E+00
10/16/2025	1.14E+01	2.43E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Downgradient	Yes	2.29E+01	YES	3.13E+00	N/A
MW387	Downgradient	Yes	1.67E+01	YES	2.82E+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

MW372
MW387

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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Oxidation-Reduction Potential — UNITS: mV — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 452.925	**S=** 58.811	**CV(1)=** 0.130	**K factor**=** 2.523	**TL(1)=** 6.01E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.108	**S=** 0.130	**CV(2)=** 0.021	**K factor**=** 2.523	**TL(2)=** 6.43E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
1/29/2024	4.63E+02	6.14E+00
4/11/2024	3.66E+02	5.90E+00
7/24/2024	3.92E+02	5.97E+00
10/14/2024	5.00E+02	6.21E+00
1/29/2025	4.39E+02	6.09E+00
4/14/2025	4.28E+02	6.06E+00
7/23/2025	4.46E+02	6.10E+00
10/15/2025	5.53E+02	6.32E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	5.18E+02	6.25E+00
4/16/2024	4.12E+02	6.02E+00
7/24/2024	4.04E+02	6.00E+00
10/15/2024	5.34E+02	6.28E+00
1/29/2025	3.78E+02	5.93E+00
4/16/2025	4.98E+02	6.21E+00
7/24/2025	4.08E+02	6.01E+00
10/16/2025	5.07E+02	6.23E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW220	Upgradient	Yes	5.78E+02	NO	6.36E+00	N/A
MW221	Sidegradient	Yes	5.26E+02	NO	6.26E+00	N/A
MW222	Sidegradient	Yes	5.50E+02	NO	6.31E+00	N/A
MW223	Sidegradient	Yes	5.10E+02	NO	6.23E+00	N/A
MW224	Sidegradient	Yes	5.27E+02	NO	6.27E+00	N/A
MW372	Downgradient	Yes	5.16E+02	NO	6.25E+00	N/A
MW384	Sidegradient	Yes	5.45E+02	NO	6.30E+00	N/A
MW387	Downgradient	Yes	4.86E+02	NO	6.19E+00	N/A
MW391	Downgradient	Yes	4.82E+02	NO	6.18E+00	N/A
MW394	Upgradient	Yes	4.97E+02	NO	6.21E+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 = [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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Sodium — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is 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=** 37.438	**S=** 5.258	**CV(1)=** 0.140	**K factor**=** 2.523	**TL(1)=** 5.07E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.614	**S=** 0.135	**CV(2)=** 0.037	**K factor**=** 2.523	**TL(2)=** 3.95E+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: MW220

Date Collected	Result	LN(Result)
1/29/2024	3.58E+01	3.58E+00
4/11/2024	4.34E+01	3.77E+00
7/24/2024	4.60E+01	3.83E+00
10/14/2024	3.69E+01	3.61E+00
1/29/2025	4.12E+01	3.72E+00
4/14/2025	4.60E+01	3.83E+00
7/23/2025	4.61E+01	3.83E+00
10/15/2025	3.63E+01	3.59E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	3.16E+01	3.45E+00
4/16/2024	3.41E+01	3.53E+00
7/24/2024	3.32E+01	3.50E+00
10/15/2024	3.29E+01	3.49E+00
1/29/2025	3.36E+01	3.51E+00
4/16/2025	3.52E+01	3.56E+00
7/24/2025	3.23E+01	3.48E+00
10/16/2025	3.44E+01	3.54E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW224	Sidegradient	Yes	5.90E+01	YES	4.08E+00	N/A
MW372	Downgradient	Yes	6.95E+01	YES	4.24E+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

MW224
MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Sulfate — **UNITS: mg/L** — **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 15.275	**S=** 4.030	**CV(1)=** 0.264	**K factor**=** 2.523	**TL(1)=** 2.54E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.695	**S=** 0.255	**CV(2)=** 0.095	**K factor**=** 2.523	**TL(2)=** 3.34E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
1/29/2024	1.47E+01	2.69E+00
4/11/2024	1.86E+01	2.92E+00
7/24/2024	2.16E+01	3.07E+00
10/14/2024	1.66E+01	2.81E+00
1/29/2025	1.91E+01	2.95E+00
4/14/2025	2.22E+01	3.10E+00
7/23/2025	2.06E+01	3.03E+00
10/15/2025	1.67E+01	2.82E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	1.16E+01	2.45E+00
4/16/2024	1.20E+01	2.48E+00
7/24/2024	1.17E+01	2.46E+00
10/15/2024	1.17E+01	2.46E+00
1/29/2025	1.16E+01	2.45E+00
4/16/2025	1.18E+01	2.47E+00
7/24/2025	1.21E+01	2.49E+00
10/16/2025	1.18E+01	2.47E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Downgradient	Yes	1.48E+02	YES	5.00E+00	N/A
MW384	Sidegradient	Yes	1.99E+01	NO	2.99E+00	N/A
MW387	Downgradient	Yes	3.37E+01	YES	3.52E+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

MW372
MW387

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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Technetium-99 — UNITS: pCi/L — URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.546	**S=** 6.311	**CV(1)=** 0.964	**K factor**=** 2.523	**TL(1)=** 2.25E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.275	**S=** 1.659	**CV(2)=** 1.301	**K factor**=** 2.523	**TL(2)=** 3.00E+00	**LL(2)=** N/A

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

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW220

Date Collected	Result	LN(Result)
1/29/2024	2.00E+01	3.00E+00
4/11/2024	1.64E+01	2.80E+00
7/24/2024	2.79E+00	1.03E+00
10/14/2024	1.48E+01	2.69E+00
1/29/2025	8.02E+00	2.08E+00
4/14/2025	1.05E+01	2.35E+00
7/23/2025	4.27E+00	1.45E+00
10/15/2025	4.11E+00	1.41E+00

Well Number: MW394

Date Collected	Result	LN(Result)
1/30/2024	2.34E+00	8.50E-01
4/16/2024	5.85E+00	1.77E+00
7/24/2024	6.82E+00	1.92E+00
10/15/2024	1.47E-01	-1.92E+00
1/29/2025	9.28E+00	2.23E+00
4/16/2025	1.25E+00	2.23E-01
7/24/2025	6.34E-02	-2.76E+00
10/16/2025	-1.91E+00	#Func!

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW369	Downgradient	Yes	5.30E+01	YES	3.97E+00	N/A
MW372	Downgradient	Yes	7.46E+01	YES	4.31E+00	N/A
MW384	Sidegradient	Yes	3.64E+01	YES	3.59E+00	N/A
MW387	Downgradient	Yes	1.47E+02	YES	4.99E+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

MW369
MW372
MW384
MW387

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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Calcium — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 23.706	**S=** 5.120	**CV(1)=** 0.216	**K factor**=** 2.523	**TL(1)=** 3.66E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.143	**S=** 0.223	**CV(2)=** 0.071	**K factor**=** 2.523	**TL(2)=** 3.71E+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: MW395

Date Collected	Result	LN(Result)
1/30/2024	2.66E+01	3.28E+00
4/16/2024	2.78E+01	3.33E+00
7/24/2024	2.69E+01	3.29E+00
10/15/2024	2.74E+01	3.31E+00
1/29/2025	2.79E+01	3.33E+00
4/16/2025	2.81E+01	3.34E+00
7/24/2025	2.69E+01	3.29E+00
10/16/2025	2.82E+01	3.34E+00

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	1.73E+01	2.85E+00
4/15/2024	1.89E+01	2.94E+00
7/22/2024	1.84E+01	2.91E+00
10/16/2024	1.80E+01	2.89E+00
1/29/2025	3.18E+01	3.46E+00
4/14/2025	1.91E+01	2.95E+00
7/23/2025	1.83E+01	2.91E+00
10/15/2025	1.77E+01	2.87E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Downgradient	Yes	8.85E+01	YES	4.48E+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

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 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(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 363.500	**S=** 39.881	**CV(1)=** 0.110	**K factor**=** 2.523	**TL(1)=** 4.64E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.890	**S=** 0.111	**CV(2)=** 0.019	**K factor**=** 2.523	**TL(2)=** 6.17E+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: MW395

Date Collected	Result	LN(Result)
1/30/2024	3.88E+02	5.96E+00
4/16/2024	4.01E+02	5.99E+00
7/24/2024	3.91E+02	5.97E+00
10/15/2024	3.84E+02	5.95E+00
1/29/2025	3.87E+02	5.96E+00
4/16/2025	4.01E+02	5.99E+00
7/24/2025	3.94E+02	5.98E+00
10/16/2025	4.04E+02	6.00E+00

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	3.17E+02	5.76E+00
4/15/2024	3.14E+02	5.75E+00
7/22/2024	3.18E+02	5.76E+00
10/16/2024	4.20E+02	6.04E+00
1/29/2025	3.16E+02	5.76E+00
4/14/2025	3.24E+02	5.78E+00
7/23/2025	3.30E+02	5.80E+00
10/15/2025	3.27E+02	5.79E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Downgradient	Yes	9.42E+02	YES	6.85E+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

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Dissolved Solids — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 185.500	**S=** 21.875	**CV(1)=** 0.118	**K factor**=** 2.523	**TL(1)=** 2.41E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.216	**S=** 0.119	**CV(2)=** 0.023	**K factor**=** 2.523	**TL(2)=** 5.52E+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: MW395

Date Collected	Result	LN(Result)
1/30/2024	2.07E+02	5.33E+00
4/16/2024	2.02E+02	5.31E+00
7/24/2024	2.14E+02	5.37E+00
10/15/2024	2.09E+02	5.34E+00
1/29/2025	1.78E+02	5.18E+00
4/16/2025	2.13E+02	5.36E+00
7/24/2025	2.07E+02	5.33E+00
10/16/2025	1.80E+02	5.19E+00

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	1.61E+02	5.08E+00
4/15/2024	1.66E+02	5.11E+00
7/22/2024	1.60E+02	5.08E+00
10/16/2024	1.64E+02	5.10E+00
1/29/2025	1.52E+02	5.02E+00
4/14/2025	2.00E+02	5.30E+00
7/23/2025	1.88E+02	5.24E+00
10/15/2025	1.67E+02	5.12E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Downgradient	Yes	6.66E+02	YES	6.50E+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

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Magnesium — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 10.079	**S=** 2.343	**CV(1)=** 0.232	**K factor**=** 2.523	**TL(1)=** 1.60E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.284	**S=** 0.238	**CV(2)=** 0.104	**K factor**=** 2.523	**TL(2)=** 2.88E+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: MW395

Date Collected	Result	LN(Result)
1/30/2024	1.08E+01	2.38E+00
4/16/2024	1.16E+01	2.45E+00
7/24/2024	1.13E+01	2.42E+00
10/15/2024	1.15E+01	2.44E+00
1/29/2025	1.18E+01	2.47E+00
4/16/2025	1.24E+01	2.52E+00
7/24/2025	1.17E+01	2.46E+00
10/16/2025	1.25E+01	2.53E+00

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	7.49E+00	2.01E+00
4/15/2024	7.73E+00	2.05E+00
7/22/2024	7.52E+00	2.02E+00
10/16/2024	7.57E+00	2.02E+00
1/29/2025	1.42E+01	2.65E+00
4/14/2025	8.23E+00	2.11E+00
7/23/2025	7.60E+00	2.03E+00
10/15/2025	7.33E+00	1.99E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Downgradient	Yes	3.17E+01	YES	3.46E+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

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

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

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Oxidation-Reduction Potential — UNITS: mV — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 432.750	**S=** 64.629	**CV(1)=** 0.149	**K factor**=** 2.523	**TL(1)=** 5.96E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.060	**S=** 0.150	**CV(2)=** 0.025	**K factor**=** 2.523	**TL(2)=** 6.44E+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: MW395

Date Collected	Result	LN(Result)
1/30/2024	5.09E+02	6.23E+00
4/16/2024	3.99E+02	5.99E+00
7/24/2024	3.93E+02	5.97E+00
10/15/2024	4.60E+02	6.13E+00
1/29/2025	3.84E+02	5.95E+00
4/16/2025	4.80E+02	6.17E+00
7/24/2025	3.91E+02	5.97E+00
10/16/2025	5.23E+02	6.26E+00

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	5.40E+02	6.29E+00
4/15/2024	3.74E+02	5.92E+00
7/22/2024	3.97E+02	5.98E+00
10/16/2024	3.13E+02	5.75E+00
1/29/2025	3.89E+02	5.96E+00
4/14/2025	4.23E+02	6.05E+00
7/23/2025	4.37E+02	6.08E+00
10/15/2025	5.12E+02	6.24E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	4.57E+02	NO	6.13E+00	N/A
MW373	Downgradient	Yes	4.78E+02	NO	6.17E+00	N/A
MW385	Sidegradient	Yes	4.97E+02	NO	6.21E+00	N/A
MW388	Downgradient	Yes	5.26E+02	NO	6.26E+00	N/A
MW392	Downgradient	Yes	3.37E+02	NO	5.82E+00	N/A
MW395	Upgradient	Yes	5.42E+02	NO	6.29E+00	N/A
MW397	Upgradient	Yes	3.70E+02	NO	5.91E+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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Sodium — UNITS: mg/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is 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=** 36.100	**S=** 16.910	**CV(1)=** 0.468	**K factor**=** 2.523	**TL(1)=** 7.88E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.532	**S=** 0.289	**CV(2)=** 0.082	**K factor**=** 2.523	**TL(2)=** 4.26E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
1/30/2024	2.92E+01	3.37E+00
4/16/2024	3.14E+01	3.45E+00
7/24/2024	3.08E+01	3.43E+00
10/15/2024	3.06E+01	3.42E+00
1/29/2025	3.11E+01	3.44E+00
4/16/2025	3.40E+01	3.53E+00
7/24/2025	3.08E+01	3.43E+00
10/16/2025	3.44E+01	3.54E+00

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	3.00E+01	3.40E+00
4/15/2024	3.19E+01	3.46E+00
7/22/2024	3.23E+01	3.48E+00
10/16/2024	3.17E+01	3.46E+00
1/29/2025	9.92E+01	4.60E+00
4/14/2025	3.54E+01	3.57E+00
7/23/2025	3.36E+01	3.51E+00
10/15/2025	3.12E+01	3.44E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Downgradient	Yes	7.26E+01	NO	4.28E+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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Sulfate — **UNITS: mg/L** — **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is 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=** 11.425	**S=** 0.326	**CV(1)=** 0.028	**K factor**=** 2.523	**TL(1)=** 1.22E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.435	**S=** 0.028	**CV(2)=** 0.012	**K factor**=** 2.523	**TL(2)=** 2.51E+00	**LL(2)=** N/A

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

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
1/30/2024	1.12E+01	2.42E+00
4/16/2024	1.13E+01	2.42E+00
7/24/2024	1.11E+01	2.41E+00
10/15/2024	1.10E+01	2.40E+00
1/29/2025	1.11E+01	2.41E+00
4/16/2025	1.15E+01	2.44E+00
7/24/2025	1.13E+01	2.42E+00
10/16/2025	1.10E+01	2.40E+00

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	1.16E+01	2.45E+00
4/15/2024	1.17E+01	2.46E+00
7/22/2024	1.18E+01	2.47E+00
10/16/2024	1.14E+01	2.43E+00
1/29/2025	1.14E+01	2.43E+00
4/14/2025	1.21E+01	2.49E+00
7/23/2025	1.19E+01	2.48E+00
10/15/2025	1.14E+01	2.43E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW370	Downgradient	Yes	1.92E+01	YES	2.95E+00	N/A
MW373	Downgradient	Yes	2.21E+02	YES	5.40E+00	N/A
MW385	Sidegradient	Yes	1.73E+01	YES	2.85E+00	N/A
MW388	Downgradient	Yes	1.69E+01	YES	2.83E+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

MW370
MW373
MW385
MW388

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-S/T First Quarter 2026 Statistical Analysis — Current Background Comparison

Technetium-99 — UNITS: pCi/L — LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 7.147	**S=** 5.990	**CV(1)=** 0.838	**K factor**=** 2.523	**TL(1)=** 2.23E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.814	**S=** 0.720	**CV(2)=** 0.397	**K factor**=** 2.523	**TL(2)=** 2.94E+00	**LL(2)=** N/A

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

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW395

Date Collected	Result	LN(Result)
1/30/2024	5.75E+00	1.75E+00
4/16/2024	2.17E+00	7.75E-01
7/24/2024	3.05E+00	1.12E+00
10/15/2024	1.07E+01	2.37E+00
1/29/2025	2.80E+00	1.03E+00
4/16/2025	2.75E+00	1.01E+00
7/24/2025	5.35E+00	1.68E+00
10/16/2025	-2.62E+00	#Func!

Well Number: MW397

Date Collected	Result	LN(Result)
1/30/2024	1.08E+01	2.38E+00
4/15/2024	5.18E+00	1.64E+00
7/22/2024	9.13E+00	2.21E+00
10/16/2024	1.55E+01	2.74E+00
1/29/2025	1.90E+01	2.94E+00
4/14/2025	1.68E+01	2.82E+00
7/23/2025	4.62E+00	1.53E+00
10/15/2025	3.37E+00	1.21E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW385	Sidegradient	Yes	4.54E+01	YES	3.82E+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

MW385

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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FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC

Four Rivers Nuclear Partnership, LLC
5511 Hobbs Road
Kevil, KY 42053
www.fourriversnuclearpartnership.com

April 23, 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 first quarter 2026 monitoring well data collected from the C-746-S Residential Landfill, C-746-T Inert Landfill, and C-746-U Contained Landfill were performed in accordance with guidance provided in the U.S. Environmental Protection Agency guidance document, *Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Interim Final Guidance* (1989).

Sincerely,

Bryan Smith

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APPENDIX E

GROUNDWATER FLOW RATE AND DIRECTION

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GROUNDWATER FLOW RATE AND DIRECTION

Whenever monitoring wells (MWs) are sampled, 401 *KAR* 48:300, Section 11, requires determination of groundwater flow rate and direction of flow in the uppermost aquifer. The uppermost aquifer below the C-746-S&T Landfills 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 first quarter 2026 and to determine the groundwater flow rate and direction.

Water levels during this reporting period were measured on January 21, 2026. As shown on Figure E.1, MW389, screened in the Upper Continental Recharge System (UCRS), is usually dry, while other UCRS wells have recordable water levels. During this reporting period, MW389 did not contain sufficient water for a water level measurement.

The UCRS has a strong vertical hydraulic gradient; therefore, the limited number of available UCRS wells, screened over different elevations, is not sufficient for mapping the potentiometric surface. Figure E.1 shows the location of UCRS MWs. The Upper Regional Gravel Aquifer (URGA) and Lower Regional Gravel Aquifer (LRGA) data were corrected for barometric pressure, if necessary, and converted to elevations to plot the potentiometric surface of the RGA, as a whole, as shown on Table E.1. Figure E.2 is a composite or average map of the URGA and LRGA elevations where well clusters exist. The contour lines are placed based on the average water level elevations of the clusters.[1] During January, RGA groundwater flow was directed inward and then north towards the Ohio River. Based on the site potentiometric map (Figure E.2), the hydraulic gradient beneath the landfill, as measured along the defined groundwater flow directions, is 4.08×10^{-4} ft/ft. Additional water level measurements in January (Figure E.3) document the vicinity groundwater hydraulic gradient for the RGA to be 4.72×10^{-4} ft/ft, northward. 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 effective porosity is assumed to be 25%. Vicinity and site flow velocities were calculated using the low and high values for hydraulic conductivity, as shown in Table E.3.

Vicinity groundwater flow near the C-746-S&T Landfills typically trends northeastward toward the Ohio River. As demonstrated on the potentiometric map for January 2026, RGA groundwater flow from the landfill area was directed to the north.

[1] Additional water level measurements (Table E.4), in wells at the C-746-U 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.

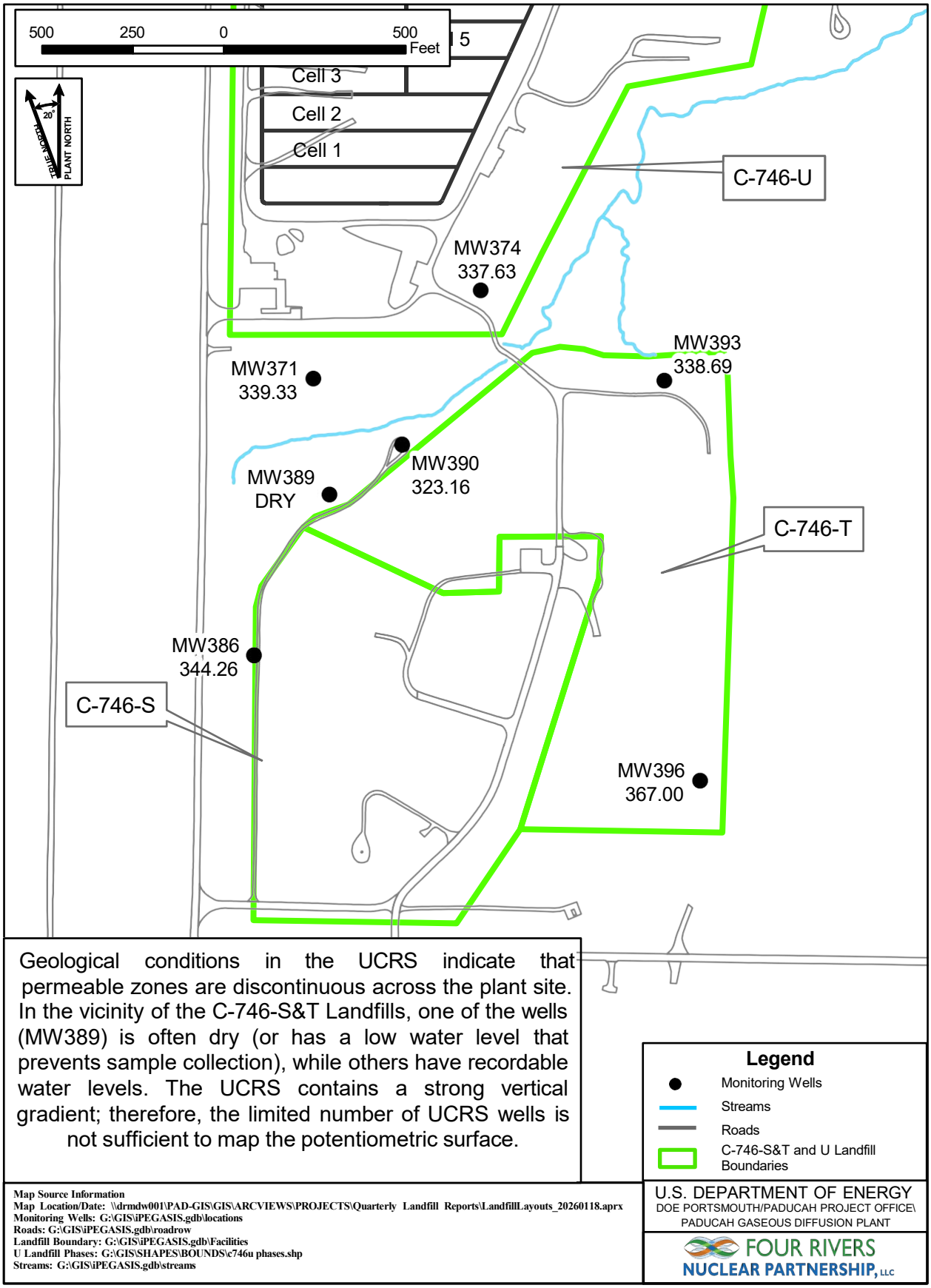

Figure E.1. Potentiometric Measurements of the Upper Continental Recharge System at the C-746-S&T Landfills, January 21, 2026

Table E.1. C-746-S&T Landfills First Quarter 2026 (January) Water Levels

C-746-S&T Landfills (1/21/26) Water Levels										
							Raw Data		*Corrected Data	
Date	Time	Well	Formation	Datum Elev (ft amsl)	BP (in Hg)	Delta BP (ft H20)	DTW (ft)	Elev (ft amsl)	DTW (ft)	Elev (ft amsl)
1/21/2026	13:47	MW220	URGA	382.01	30.12	0.00	58.58	323.43	58.58	323.43
1/21/2026	13:57	MW221	URGA	391.38	30.11	0.01	68.19	323.19	68.20	323.18
1/21/2026	13:54	MW222	URGA	395.27	30.11	0.01	72.05	323.22	72.06	323.21
1/21/2026	13:56	MW223	URGA	394.38	30.11	0.01	71.27	323.11	71.28	323.10
1/21/2026	13:52	MW224	URGA	395.69	30.12	0.00	72.38	323.31	72.38	323.31
1/21/2026	13:50	MW225	URGA	385.73	30.12	0.00	62.39	323.34	62.39	323.34
1/21/2026	12:46	MW353	LRGA	375.05	30.14	-0.02	51.16	323.89	51.14	323.91
1/21/2026	13:12	MW369	URGA	364.23	30.12	0.00	41.00	323.23	41.00	323.23
1/21/2026	13:13	MW370	LRGA	365.12	30.12	0.00	41.87	323.25	41.87	323.25
1/21/2026	13:14	MW371	UCRS	364.64	30.12	0.00	25.31	339.33	25.31	339.33
1/21/2026	13:07	MW372	URGA	359.42	30.12	0.00	36.18	323.24	36.18	323.24
1/21/2026	13:08	MW373	LRGA	359.73	30.12	0.00	36.46	323.27	36.46	323.27
1/21/2026	13:09	MW374	UCRS	359.44	30.12	0.00	21.81	337.63	21.81	337.63
1/21/2026	13:33	MW384	URGA	365.29	30.12	0.00	42.04	323.25	42.04	323.25
1/21/2026	13:34	MW385	LRGA	365.74	30.12	0.00	42.41	323.33	42.41	323.33
1/21/2026	13:35	MW386	UCRS	365.32	30.12	0.00	21.06	344.26	21.06	344.26
1/21/2026	13:36	MW387	URGA	363.48	30.12	0.00	40.27	323.21	40.27	323.21
1/21/2026	13:37	MW388	LRGA	363.45	30.12	0.00	40.23	323.22	40.23	323.22
1/21/2026	13:40	MW389	UCRS	364.11			INSUFFICIENT WATER			
1/21/2026	13:39	MW390	UCRS	360.39	30.12	0.00	37.23	323.16	37.23	323.16
1/21/2026	13:17	MW391	URGA	366.67	30.12	0.00	43.49	323.18	43.49	323.18
1/21/2026	13:18	MW392	LRGA	365.85	30.12	0.00	42.69	323.16	42.69	323.16
1/21/2026	13:19	MW393	UCRS	366.62	30.12	0.00	27.93	338.69	27.93	338.69
1/21/2026	13:26	MW394	URGA	378.46	30.12	0.00	54.97	323.49	54.97	323.49
1/21/2026	13:27	MW395	LRGA	379.12	30.12	0.00	55.67	323.45	55.67	323.45
1/21/2026	13:28	MW396	UCRS	378.75	30.12	0.00	11.75	367.00	11.75	367.00
1/21/2026	13:30	MW397	LRGA	387.00	30.12	0.00	63.48	323.52	63.48	323.52
1/21/2026	13:20	MW418	URGA	367.21	30.12	0.00	43.91	323.30	43.91	323.30
1/21/2026	13:21	MW419	LRGA	367.05	30.12	0.00	43.76	323.29	43.76	323.29

Reference Barometric Pressure **30.12**
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

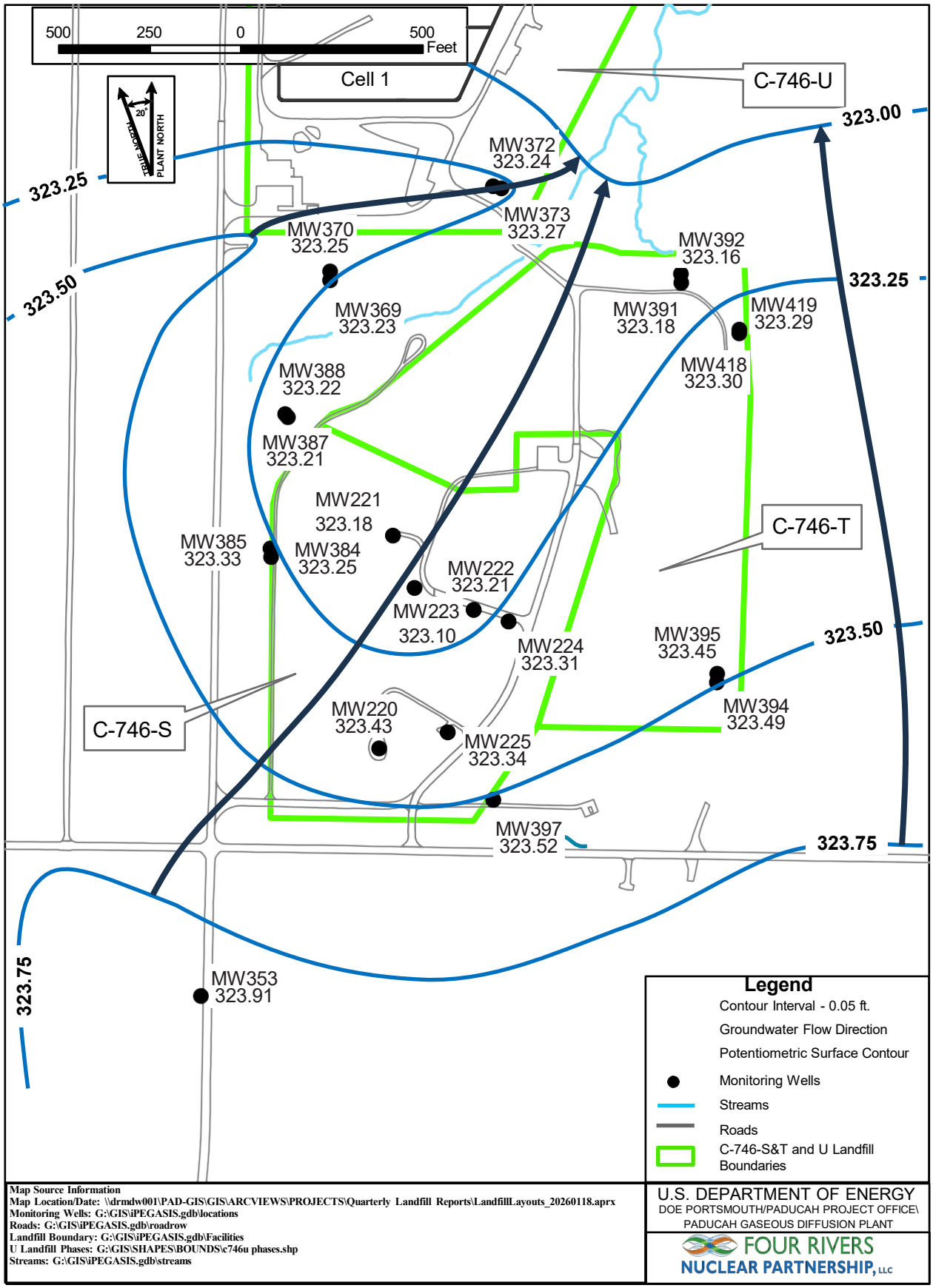

Figure E.2. Composite Potentiometric Surface of the Regional Gravel Aquifer at the C-746-S&T Landfills, January 21, 2026

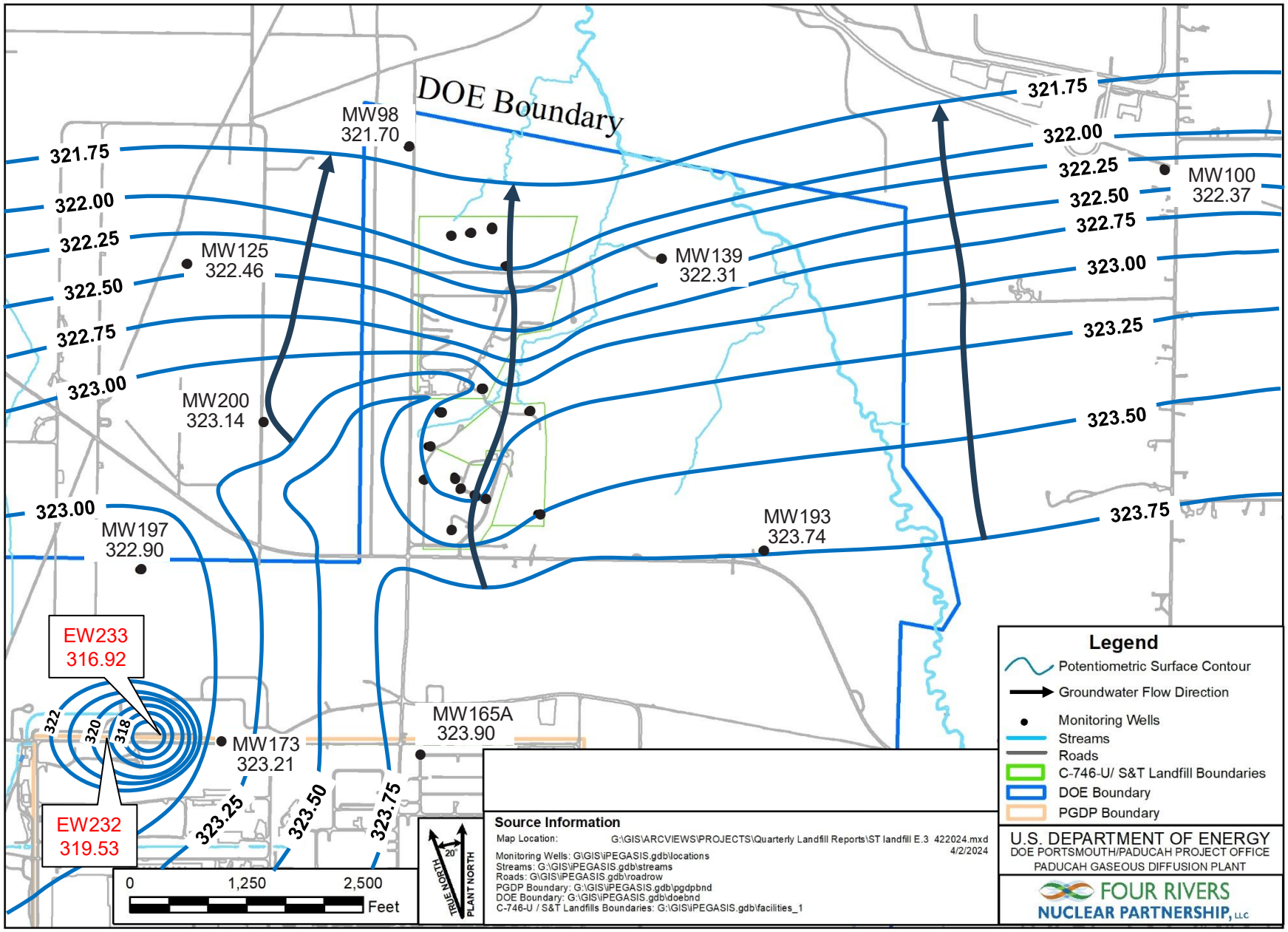

Figure E.3. Vicinity Potentiometric Surface of the Regional Gravel Aquifer, January 21, 2026

Table E.2. C-746-S&T Landfills Hydraulic Gradients

	ft/ft
Beneath Landfill Mound	4.08×10^{-4}
Vicinity	4.72×10^{-4}

Table E.3. C-746-S&T Landfills 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
Beneath Landfill Mound					
7.25×10^{2}	2.56×10^{-1}	2.96×10^{-1}	1.04×10^{-4}	1.18	4.18×10^{-4}
4.25×10^{2}	1.50×10^{-1}	1.73×10^{-1}	6.12×10^{-5}	6.93×10^{-1}	2.45×10^{-4}
Vicinity					
7.25×10^{2}	2.56×10^{-1}	3.42×10^{-1}	1.21×10^{-4}	1.37	4.83×10^{-4}
4.25×10^{2}	1.50×10^{-1}	2.01×10^{-1}	7.08×10^{-5}	8.02×10^{-1}	2.83×10^{-4}

Table E.4. Vicinity First Quarter 2026 (January) Water Levels

Vicinity (1/21/26) Water Levels										
							Raw Data		***Corrected Data**	
Date	**Time**	**Well**	**Aquifer**	**Datum Elev (ft amsl)**	**BP (in Hg)**	**Delta BP (ft H20)**	**DTW (ft)**	**Elev (ft amsl)**	**DTW (ft)**	**Elev (ft amsl)**
1/21/2026	10:06	MW98	RGA	370.55	30.17	-0.06	48.91	321.64	48.85	321.70
1/21/2026	9:35	MW100	RGA	373.39	30.17	-0.06	51.08	322.31	51.02	322.37
1/21/2026	9:55	MW125	RGA	375.57	30.17	-0.06	53.17	322.40	53.11	322.46
1/21/2026	10:21	MW139	RGA	363.75	30.17	-0.06	41.50	322.25	41.44	322.31
1/21/2026	12:41	MW165A	RGA	380.94	30.14	-0.02	57.06	323.88	57.04	323.90
1/21/2026	12:15	MW173	RGA	373.63	30.14	-0.02	50.44	323.19	50.42	323.21
1/21/2026	9:42	MW193	RGA	368.30	30.17	-0.06	44.62	323.68	44.56	323.74
1/21/2026	9:48	MW197	RGA	368.39	30.17	-0.06	45.55	322.84	45.49	322.90
1/21/2026	10:00	MW200	RGA	378.70	30.17	-0.06	66.52	312.18	66.46	312.24

Reference Barometric Pressure **30.12**
Elev = elevation
amsl = above mean sea level
BP = barometric pressure
DTW = depth to water in feet below datum
RGA = Regional Gravel Aquifer
*Assumes a barometric efficiency of 1.0

APPENDIX F

NOTIFICATIONS

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NOTIFICATIONS

In accordance with 401 *KAR* 48:300 § 7, the notification for parameters that exceed (or do not exceed) the maximum contaminant level (MCL) has been submitted to the Kentucky Division of Waste Management. The parameters 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 first quarter 2026 groundwater data collected from the C-746-S&T Landfills monitoring wells were performed in accordance with *Groundwater Monitoring Plan for the Solid Waste Permitted Landfills (C-746-S Residential Landfill, C-746-T Inert Landfill, and C-746-U Contained Landfill) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (LATA Kentucky 2014).

The following are the permit required parameters in 40 *CFR* § 302.4, Appendix A, which had statistically significant, increased concentrations relative to historical background concentrations.

	Parameter	Monitoring Well
Upper Continental Recharge System	None	
Upper Regional Gravel Aquifer	Sodium Technetium-99	MW224, MW372 MW369, MW372, MW384, MW387
Lower Regional Gravel Aquifer	Sodium Technetium-99	MW373 MW385

NOTE: Although technetium-99 is not cited in 40 *CFR* § 302.4, Appendix A, this radionuclide is being reported along with the parameters of this regulation.

Four Rivers Nuclear Partnership, LLC
PROJECT ENVIRONMENTAL MEASUREMENTS SYSTEM
C-746-S&T LANDFILLS
SOLID WASTE PERMIT NUMBER SW07300014, SW07300015, SW07300045
MAXIMUM CONTAMINANT LEVEL (MCL) EXCEEDANCE REPORT
Quarterly Groundwater Sampling

AKGWA	Station	Analysis	Method	Results	Units	MCL
8004-4808	MW372	Beta activity	9310	50.2	pCi/L	50
8004-4815	MW387	Beta activity	9310	87.4	pCi/L	50

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-S&T Landfills

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
ACETONE																							
Quarter 3, 2003							*					*											
Quarter 4, 2003											*								*				
Quarter 1, 2005									*														
Quarter 4, 2019																*							
Quarter 3, 2025											*												
ALPHA ACTIVITY																							
Quarter 4, 2002				■	■								■										
Quarter 4, 2008										■													
Quarter 4, 2010										■													
ALUMINUM																							
Quarter 1, 2003			*				*					*	*	*									
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Quarter 1, 2020													*										
BARIUM																							
Quarter 3, 2003							■	■															
Quarter 4, 2003							■	■															
BETA ACTIVITY																							
Quarter 4, 2002													■										
Quarter 1, 2003													■				■						

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
BETA ACTIVITY																							
Quarter 2, 2003			■	■													■			■			
Quarter 3, 2003			■										■				■						
Quarter 4, 2003			■							■			■										
Quarter 1, 2004			■										■				■						
Quarter 2, 2004			■									■	■				■		■	■			
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Quarter 4, 2004			■									■	■				■						
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Quarter 3, 2006										■		■	■				■		■	■			
Quarter 4, 2006	■		■							■		■	■						■	■			
Quarter 1, 2007			■							■		■	■				■		■	■			
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Quarter 4, 2007			■							■		■	■				■		■	■			
Quarter 1, 2008			■							■		■	■				■			■			
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Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
BETA ACTIVITY																							
Quarter 4, 2018										■		■	■					■		■			
Quarter 1, 2019										■			■				■	■		■			
Quarter 2, 2019										■	■		■				■	■		■			
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Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
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Quarter 1, 2008	*																						
Quarter 2, 2008	*																						

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
CHEMICAL OXYGEN DEMAND																							
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 3, 2011	*																						
Quarter 4, 2011	*																						
Quarter 1, 2012	*																						
Quarter 1, 2013	*																						
Quarter 3, 2013	*																						
Quarter 3, 2014	*								*				*					*					
Quarter 4, 2014							*																
Quarter 2, 2015																*							
Quarter 3, 2015															*								
Quarter 3, 2016			*								*												
Quarter 4, 2016																	*						
Quarter 2, 2017							*																
Quarter 3, 2017	*														*								
Quarter 4, 2017						*																	
Quarter 2, 2018														*								*	
Quarter 3, 2018												*											
Quarter 4, 2018																							*
Quarter 2, 2019					*							*		*					*				
Quarter 3, 2019												*	*						*			*	*
Quarter 4, 2019	*			*				*			*	*				*							
Quarter 1, 2020					*				*												*		
Quarter 2, 2020															*								
Quarter 4, 2020																*							
Quarter 1, 2021												*											
Quarter 2, 2021						*									*								
Quarter 4, 2021	*																						
Quarter 1, 2022						*		*	*					*	*					*	*		
Quarter 2, 2022						*								*									
Quarter 4, 2022	*																						
Quarter 1, 2023																	*						
Quarter 2, 2023					*								*										
Quarter 2, 2024																*							
Quarter 3, 2024													*										
CHLORIDE																							
Quarter 1, 2003			*																				
Quarter 4, 2003			*																				
Quarter 3, 2003			*																				
Quarter 4, 2003			*																				
Quarter 1, 2004			*																				
Quarter 2, 2004			*																				
Quarter 3, 2004			*																				
Quarter 4, 2004			*																				
Quarter 1, 2005			*																				
Quarter 2, 2005			*																				
Quarter 3, 2005			*																				
Quarter 4, 2005			*																				
Quarter 1, 2006																		*					
Quarter 2, 2006			*																				
Quarter 3, 2006			*																				
Quarter 4, 2006			*																				
Quarter 1, 2007			*																				
Quarter 2, 2007			*																				
Quarter 3, 2007			*																				
Quarter 4, 2007			*																				
Quarter 1, 2008			*																				
Quarter 2, 2008			*																				
Quarter 3, 2008			*																				
Quarter 4, 2008			*																				

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
CHLORIDE																							
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 3, 2012			*																				
Quarter 3, 2013			*																				
Quarter 4, 2013			*																				
Quarter 4, 2014			*																				
Quarter 2, 2019																					*		
CHROMIUM																							
Quarter 4, 2002								■															
Quarter 1, 2003								■														■	
Quarter 2, 2003							■	■															
Quarter 3, 2009						■																	
Quarter 1, 2019						■																	
COBALT																							
Quarter 3, 2003							*																
CONDUCTIVITY																							
Quarter 4, 2002										*									*				
Quarter 1, 2003			*							*									*				
Quarter 2, 2003			*							*									*				
Quarter 3, 2003			*					*		*									*				
Quarter 4, 2003			*							*									*				
Quarter 1, 2004																			*				
Quarter 2, 2004										*									*				
Quarter 3, 2004										*									*				
Quarter 4, 2004			*							*									*				
Quarter 1, 2005										*		*							*				
Quarter 2, 2005												*							*				
Quarter 3, 2005																			*				
Quarter 4, 2005										*		*							*				
Quarter 1, 2006												*							*				
Quarter 2, 2006												*							*				
Quarter 3, 2006												*							*				
Quarter 4, 2006																	*		*				
Quarter 1, 2007												*							*				
Quarter 2, 2007																	*		*				
Quarter 3, 2007																	*		*				
Quarter 4, 2007												*					*		*				
Quarter 1, 2008												*							*				
Quarter 2, 2008												*							*				
Quarter 3, 2008												*					*		*				
Quarter 4, 2008												*							*				
Quarter 1, 2009												*							*				
Quarter 2, 2009												*							*				
Quarter 3, 2009												*							*				
Quarter 4, 2009												*					*		*				
Quarter 1, 2010												*							*				
Quarter 2, 2010												*							*				
Quarter 3, 2010												*							*				
Quarter 4, 2010												*							*				
Quarter 1, 2011										*		*							*				
Quarter 2, 2011												*							*				
Quarter 3, 2011												*							*				
Quarter 4, 2011												*							*				
Quarter 1, 2012											*	*							*				
Quarter 2, 2012												*							*				
Quarter 3, 2012												*							*				

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
CONDUCTIVITY																							
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																			*				
Quarter 2, 2018																			*				
Quarter 3, 2018																			*				
Quarter 4, 2018																			*				
Quarter 1, 2019																			*				
Quarter 2, 2019																			*				
Quarter 3, 2019																			*				
Quarter 4, 2019												*							*				
Quarter 1, 2020												*							*				
Quarter 2, 2020												*							*	*			
Quarter 3, 2020												*							*				
Quarter 4, 2020												*							*				
Quarter 1, 2021												*							*				
Quarter 2, 2021												*							*				
Quarter 3, 2021												*							*				
Quarter 4, 2021																			*				
Quarter 1, 2022												*							*				
Quarter 2, 2022												*							*				
Quarter 3, 2022												*					*		*				
Quarter 4, 2022												*					*	*	*				
Quarter 1, 2023												*							*				
Quarter 2, 2023												*							*				
Quarter 3, 2023												*							*				
Quarter 4, 2023												*							*				
Quarter 1, 2024												*							*				
Quarter 2, 2024												*							*				
Quarter 3, 2024												*							*				
Quarter 4, 2024												*							*				
Quarter 1, 2025												*							*	*			
Quarter 2, 2025												*							*				
Quarter 3, 2025												*							*				
Quarter 4, 2025												*							*				
Quarter 1, 2026												*							*				
DISSOLVED OXYGEN																							
Quarter 3, 2006			*					*															
DISSOLVED SOLIDS																							
Quarter 4, 2002										*									*				
Quarter 1, 2003			*							*									*				
Quarter 2, 2003			*							*									*				
Quarter 3, 2003			*				*	*		*		*							*				
Quarter 4, 2003			*				*		*	*		*							*				
Quarter 1, 2004			*									*							*				
Quarter 2, 2004										*		*							*				
Quarter 3, 2004										*		*							*				
Quarter 4, 2004										*		*							*				
Quarter 1, 2005												*							*				
Quarter 2, 2005																			*				
Quarter 3, 2005																	*	*	*	*	*		
Quarter 4, 2005																	*	*	*	*	*		
Quarter 1, 2006																	*	*	*	*	*		
Quarter 2, 2006																	*	*	*	*	*		
Quarter 3, 2006																	*	*	*	*	*		
Quarter 4, 2006										*		*					*		*				
Quarter 1, 2007																			*				
Quarter 2, 2007										*		*							*				
Quarter 3, 2007										*		*							*				
Quarter 4, 2007												*							*				

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
DISSOLVED SOLIDS																							
Quarter 1, 2008												*							*				
Quarter 2, 2008												*							*				
Quarter 3, 2008												*							*				
Quarter 4, 2008										*		*							*				
Quarter 1, 2009												*							*				
Quarter 2, 2009												*	*						*				
Quarter 3, 2009												*	*						*				
Quarter 4, 2009												*	*						*				
Quarter 1, 2010												*	*						*				
Quarter 2, 2010										*		*	*						*				
Quarter 3, 2010										*		*							*				
Quarter 4, 2010										*		*							*				
Quarter 1, 2011										*		*							*				
Quarter 2, 2011												*	*						*				
Quarter 3, 2011												*							*				
Quarter 4, 2011												*							*				
Quarter 1, 2012											*	*	*						*				
Quarter 2, 2012												*							*				
Quarter 3, 2012										*		*	*						*				
Quarter 4, 2012												*	*						*				
Quarter 1, 2013										*		*							*				
Quarter 2, 2013												*							*				
Quarter 3, 2013												*							*				
Quarter 4, 2013												*							*				
Quarter 1, 2014												*	*						*				
Quarter 2, 2014												*							*				
Quarter 3, 2014									*			*	*						*				
Quarter 4, 2014												*	*						*				
Quarter 1, 2015												*							*				
Quarter 2, 2015												*							*				
Quarter 3, 2015												*							*				
Quarter 4, 2015									*			*						*	*				
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 2, 2022												*	*						*				
Quarter 2, 2022												*	*						*				
Quarter 3, 2022												*							*				
Quarter 4, 2022												*							*				
Quarter 1, 2023												*							*				
Quarter 2, 2023												*							*				
Quarter 3, 2023												*							*				
Quarter 4, 2023												*							*				
Quarter 1, 2024												*							*				
Quarter 2, 2024												*							*				
Quarter 3, 2024												*							*				
Quarter 4, 2024												*							*				
Quarter 1, 2025												*							*				
Quarter 2, 2025												*							*				
Quarter 3, 2025												*	*						*				
Quarter 4, 2025												*	*						*				
Quarter 1, 2026												*	*						*				
IODIDE																							
Quarter 4, 2002																					*		
Quarter 2, 2003						*																	
Quarter 3, 2003													*										
Quarter 1, 2004				*																			
Quarter 3, 2010																					*		
Quarter 2, 2013										*													

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
IRON																							
Quarter 1, 2003							*			*	*			*									
Quarter 2, 2003										*	*	*	*										
Quarter 3, 2003							*	*	*	*	*	*											
Quarter 4, 2003											*												
Quarter 1, 2004											*												
Quarter 2, 2004										*	*												
Quarter 3, 2004										*													
Quarter 4, 2004										*													
Quarter 1, 2005												*											
Quarter 2, 2005											*	*											
Quarter 1, 2006							*																
Quarter 2, 2006												*											
Quarter 3, 2006											*												
Quarter 1, 2007											*	*											
Quarter 2, 2007											*												
Quarter 2, 2008												*											
Quarter 3, 2008												*											
MAGNESIUM																							
Quarter 1, 2003			*																				
Quarter 2, 2003			*									*							*				
Quarter 3, 2003			*				*					*											
Quarter 4, 2003			*									*							*				
Quarter 1, 2004			*									*		*					*				
Quarter 2, 2004			*									*							*				
Quarter 3, 2004			*									*							*				
Quarter 4, 2004			*									*							*				
Quarter 1, 2005												*							*				
Quarter 2, 2005												*							*				
Quarter 3, 2005												*							*				
Quarter 4, 2005												*							*				
Quarter 1, 2006												*							*				
Quarter 2, 2006												*							*				
Quarter 3, 2006												*							*				
Quarter 4, 2006												*							*				
Quarter 1, 2007												*							*				
Quarter 2, 2007												*							*				
Quarter 3, 2007												*							*				
Quarter 4, 2007												*							*				
Quarter 1, 2008												*							*				
Quarter 2, 2008												*							*				
Quarter 3, 2008												*							*				
Quarter 4, 2008												*							*				
Quarter 1, 2009												*							*				
Quarter 2, 2009												*							*				
Quarter 3, 2009												*	*						*				
Quarter 4, 2009												*							*				
Quarter 1, 2010												*							*				
Quarter 2, 2010												*	*						*				
Quarter 3, 2010												*							*				
Quarter 4, 2010												*							*				
Quarter 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																		*	*				

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
MAGNESIUM																							
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 4, 2022												*	*						*				
Quarter 1, 2023												*	*						*				
Quarter 2, 2023												*	*						*				
Quarter 3, 2023												*	*						*				
Quarter 4, 2023												*	*						*				
Quarter 1, 2024												*	*						*				
Quarter 2, 2024												*	*						*				
Quarter 3, 2024												*	*						*				
Quarter 4, 2024												*	*						*				
Quarter 1, 2025												*	*						*				
Quarter 2, 2025												*	*						*				
Quarter 3, 2025												*	*						*				
Quarter 4, 2025												*	*						*				
Quarter 1, 2026												*	*						*				
MANGANESE																							
Quarter 4, 2002																					*		
Quarter 3, 2003							*	*															
Quarter 4, 2003							*	*															
Quarter 1, 2004							*																
Quarter 2, 2004							*																
Quarter 4, 2004							*	*															
Quarter 1, 2005							*																
Quarter 3, 2005																					*		
Quarter 3, 2009	*																						
Quarter 1, 2022	*																						
OXIDATION-REDUCTION POTENTIAL																							
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 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			*	*		*	*	*	*				*				*	*		*			

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
OXIDATION-REDUCTION POTENTIAL																							
Quarter 1, 2009			*				*	*	*				*	*				*		*			
Quarter 3, 2009			*	*		*											*	*	*	*			
Quarter 4, 2009			*			*			*									*		*			
Quarter 1, 2010	*		*																	*			
Quarter 2, 2010	*		*	*					*				*				*	*		*			
Quarter 3, 2010	*		*	*		*											*	*	*	*			
Quarter 4, 2010			*					*			*			*			*	*	*	*			
Quarter 1, 2011	*			*		*	*	*	*		*		*	*			*	*		*	*		
Quarter 2, 2011	*		*	*			*	*	*	*	*		*	*			*	*	*	*	*		
Quarter 3, 2011	*		*	*			*	*		*			*		*		*	*	*	*			
Quarter 4, 2011	*		*	*			*				*						*	*		*			
Quarter 1, 2012	*		*	*		*	*	*	*	*			*	*			*	*	*	*	*		
Quarter 2, 2012	*		*				*		*		*		*	*			*	*	*	*	*		
Quarter 3, 2012	*		*			*	*	*	*	*			*	*			*	*	*	*	*		
Quarter 4, 2012				*		*		*	*	*	*		*	*			*	*	*	*	*		
Quarter 1, 2013				*		*		*	*		*		*	*				*		*	*		
Quarter 2, 2013	*			*			*		*		*		*				*	*	*	*	*		
Quarter 3, 2013	*		*	*		*	*	*	*	*			*				*	*	*	*			
Quarter 4, 2013			*	*		*	*	*	*	*	*	*	*	*			*	*	*	*	*		
Quarter 1, 2014	*		*	*		*	*		*		*	*	*	*			*	*	*	*	*		
Quarter 2, 2014	*		*	*		*	*		*		*		*				*	*	*	*	*		
Quarter 3, 2014	*		*	*		*											*	*	*	*			
Quarter 4, 2014	*		*	*							*		*				*	*	*	*	*		
Quarter 1, 2015	*		*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2015	*		*	*	*	*	*				*			*	*	*	*	*	*	*	*	*	*
Quarter 3, 2015	*		*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2015	*		*	*	*	*	*	*	*	*			*		*	*	*	*	*	*	*	*	*
Quarter 1, 2016	*		*	*	*	*	*	*	*	*	*		*		*		*	*		*	*	*	*
Quarter 2, 2016	*		*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*	*
Quarter 3, 2016	*		*	*	*	*	*	*	*	*			*	*	*		*	*	*	*	*	*	*
Quarter 4, 2016	*		*	*	*		*	*		*			*		*		*	*	*	*	*	*	*
Quarter 1, 2017	*		*	*	*			*	*						*			*		*		*	*
Quarter 2, 2017	*		*	*	*												*			*	*		
Quarter 3, 2017	*		*	*	*												*	*	*	*	*	*	*
Quarter 4, 2017	*		*	*	*	*	*	*	*	*	*		*	*	*		*	*	*	*	*	*	*
Quarter 1, 2018	*		*	*	*	*												*	*	*	*		*
Quarter 2, 2018	*		*	*	*												*	*	*	*	*	*	*
Quarter 3, 2018	*		*	*	*	*	*	*	*								*	*	*	*	*	*	*
Quarter 4, 2018	*		*	*	*	*				*			*		*		*	*	*	*	*		*
Quarter 1, 2019	*		*	*	*	*	*	*			*						*	*	*	*	*	*	*
Quarter 2, 2019	*		*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2019	*		*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2019	*		*	*	*				*	*			*		*	*	*	*	*	*	*	*	*
Quarter 1, 2020	*		*	*	*	*	*	*	*				*			*	*	*	*	*	*	*	
Quarter 2, 2020	*		*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2020	*		*	*	*	*											*	*	*	*	*	*	*
Quarter 4, 2020	*		*	*	*	*		*						*			*	*	*	*	*	*	
Quarter 1, 2021	*		*	*		*	*	*	*	*			*		*		*	*	*	*		*	*
Quarter 2, 2021	*		*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
Quarter 3, 2021	*		*	*	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2021	*		*	*	*	*	*	*	*						*		*	*	*	*	*	*	*
Quarter 1, 2022	*		*	*	*	*				*			*	*	*		*	*	*	*	*	*	*
Quarter 2, 2022	*		*	*	*		*		*	*		*	*		*	*	*	*	*	*	*	*	*
Quarter 3, 2022	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2022	*		*	*	*	*	*	*			*	*					*	*	*		*	*	*
Quarter 1, 2023	*			*	*	*					*	*	*			*	*	*	*	*	*	*	*
Quarter 2, 2023	*		*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*		*
Quarter 3, 2023	*		*	*	*		*	*		*	*		*	*		*	*	*	*	*	*	*	*
Quarter 4, 2023	*			*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2024	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2024	*			*	*											*	*	*	*	*	*	*	*
Quarter 3, 2024	*		*	*	*	*		*		*	*	*	*			*	*	*	*	*	*	*	*
Quarter 4, 2024	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2025	*		*	*	*	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*
Quarter 2, 2025	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2025	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2025	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2026	*			*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
PCB-1016																							
Quarter 4, 2003							*	*	*		*							*					
Quarter 3, 2004											*												
Quarter 3, 2005							*				*												
Quarter 1, 2006											*												
Quarter 2, 2006											*												
Quarter 4, 2006											*												
Quarter 1, 2007											*	*											
Quarter 2, 2007												*											
Quarter 3, 2007											*												
Quarter 2, 2008											*	*											
Quarter 3, 2008											*												
Quarter 4, 2008											*												

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
PCB-1016																							
Quarter 1, 2009											*												
Quarter 2, 2009											*												
Quarter 3, 2009											*												
Quarter 4, 2009											*												
Quarter 1, 2010											*												
Quarter 2, 2010											*												
Quarter 3, 2010											*												
Quarter 4, 2010											*												
PCB-1232																							
Quarter 1, 2011											*												
PCB-1248																							
Quarter 2, 2008												*											
PCB-1260																							
Quarter 2, 2006																		*					
pH																							
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 4, 2005										*							*						
Quarter 1, 2006																	*						
Quarter 2, 2006																	*						
Quarter 3, 2006																	*						
Quarter 3, 2007																	*						
Quarter 4, 2007																	*						
Quarter 4, 2008																	*						
Quarter 1, 2009																	*						
Quarter 1, 2011																	*						
Quarter 2, 2011											*												
Quarter 3, 2011											*												
Quarter 1, 2012														*									
Quarter 1, 2013										*			*				*						
Quarter 4, 2014																					*		
Quarter 2, 2016																		*	*				
POTASSIUM																							
Quarter 4, 2002																		*	*				
Quarter 3, 2004																			*				
Quarter 2, 2005																			*				
Quarter 3, 2005																			*				
Quarter 4, 2005																			*				
Quarter 2, 2006																			*				
Quarter 3, 2006																			*				
Quarter 4, 2006																			*				
Quarter 4, 2008																			*				
Quarter 3, 2012																			*				
Quarter 1, 2013																			*				
Quarter 2, 2013																			*				
Quarter 3, 2013																			*				
RADIUM-226																							
Quarter 4, 2002			*										*	*							*		
Quarter 2, 2004																			*				
Quarter 2, 2005									*														
Quarter 1, 2009											*												
Quarter 3, 2014									*			*											
Quarter 4, 2014			*								*							*					
Quarter 1, 2015			*				*			*		*						*					
Quarter 2, 2015			*				*			*		*						*					
Quarter 3, 2015			*																				

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
RADIUM-226																							
Quarter 4, 2015					*	*									*		*				*	*	
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 4, 2018													*				*						
Quarter 1, 2020																	*						
Quarter 2, 2020															*								
Quarter 2, 2024																	*			*	*		
Quarter 3, 2024			*		*	*				*										*			*
RADIUM-228																							
Quarter 2, 2005							■				■												
Quarter 3, 2005			■																				
Quarter 4, 2005							■		■														
Quarter 1, 2006					■																		
SELENIUM																							
Quarter 4, 2002			■		■																		
Quarter 1, 2003					■																	■	
Quarter 2, 2003			■																				
Quarter 3, 2003			■		■																		
Quarter 4, 2003			■																				
SODIUM																							
Quarter 4, 2002																			*		*		
Quarter 1, 2003				*					*	*	*												
Quarter 2, 2003				*						*	*		*										
Quarter 3, 2003							*	*		*													
Quarter 4, 2003							*		*	*													
Quarter 1, 2004									*	*				*									
Quarter 2, 2004										*													
Quarter 3, 2004										*													
Quarter 4, 2004									*	*													
Quarter 1, 2005										*									*				
Quarter 2, 2005										*									*				
Quarter 3, 2005									*	*									*				
Quarter 4, 2005									*	*													
Quarter 1, 2006									*	*													
Quarter 2, 2006									*														
Quarter 3, 2006									*	*		*							*				
Quarter 4, 2006									*	*							*						
Quarter 1, 2007									*			*											
Quarter 2, 2007									*	*													
Quarter 3, 2007									*														
Quarter 4, 2007									*														
Quarter 1, 2008									*														
Quarter 3, 2008												*											
Quarter 4, 2008									*	*													
Quarter 1, 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 4, 2011																			*				
Quarter 1, 2012											*												
Quarter 3, 2012												*							*				
Quarter 4, 2012												*											

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
SODIUM																							
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 2, 2016											*												
Quarter 3, 2016											*												*
Quarter 1, 2017										*	*		*					*					
Quarter 2, 2017									*	*	*												
Quarter 2, 2018													*										
Quarter 3, 2018														*									
Quarter 1, 2019													*										
Quarter 2, 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 4, 2023										*		*											
Quarter 1, 2024												*											
Quarter 2, 2024									*			*							*				
Quarter 3, 2024									*										*				
Quarter 4, 2024												*							*				
Quarter 1, 2025									*			*							*			*	
Quarter 2, 2025												*							*				
Quarter 3, 2025												*							*				
Quarter 4, 2025												*							*				
Quarter 1, 2026									*			*							*				
STRONTIUM-90																							
Quarter 2, 2003										■													
Quarter 1, 2004										■													
SULFATE																							
Quarter 4, 2002																			*				
Quarter 1, 2003												*	*				*		*				
Quarter 2, 2003										*		*	*					*	*				
Quarter 3, 2003										*		*	*						*				
Quarter 4, 2003										*		*	*						*				
Quarter 1, 2004										*		*	*					*	*				
Quarter 2, 2004										*		*	*				*	*	*	*			
Quarter 3, 2004									*	*		*	*					*	*				
Quarter 4, 2004										*		*	*					*	*				
Quarter 1, 2005										*		*	*				*	*	*				
Quarter 2, 2005										*		*	*					*	*				
Quarter 3, 2005										*		*	*				*	*	*				
Quarter 4, 2005										*		*	*					*	*	*			
Quarter 1, 2006										*		*	*				*	*	*	*			
Quarter 2, 2006									*	*		*	*				*	*	*	*			
Quarter 3, 2006									*	*		*	*				*		*	*			
Quarter 4, 2006									*	*		*	*				*		*				
Quarter 1, 2007									*	*		*	*				*		*	*			
Quarter 2, 2007									*	*		*	*				*		*	*			
Quarter 3, 2007									*	*		*	*				*		*	*			
Quarter 4, 2007										*		*	*				*	*	*	*			
Quarter 1, 2008										*		*	*				*	*	*	*			
Quarter 2, 2008								*		*	*	*	*	*			*	*	*	*			
Quarter 3, 2008										*		*	*				*	*	*	*			
Quarter 4, 2008										*		*	*				*		*				
Quarter 1, 2009										*		*	*				*	*	*				
Quarter 2, 2009									*	*		*	*				*	*	*	*			
Quarter 3, 2009									*	*		*	*				*	*	*	*			
Quarter 4, 2009	*									*		*	*				*	*	*				
Quarter 1, 2010	*								*	*		*	*				*		*				

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
SULFATE																							
Quarter 2, 2010									*	*		*	*				*	*	*	*			
Quarter 3, 2010										*		*	*				*	*	*	*			
Quarter 4, 2010	*									*		*	*				*	*	*				
Quarter 1, 2011	*									*		*	*				*	*	*				
Quarter 2, 2011	*									*		*	*	*			*	*	*	*			
Quarter 3, 2011	*									*		*	*	*			*	*	*	*			
Quarter 4, 2011	*									*		*	*				*	*	*	*			
Quarter 1, 2012	*									*		*	*				*	*	*	*			
Quarter 2, 2012	*									*		*	*				*	*	*	*			
Quarter 3, 2012	*									*		*	*				*	*	*	*			
Quarter 4, 2012										*		*	*				*	*	*	*			
Quarter 1, 2013										*		*	*				*	*	*	*			
Quarter 2, 2013										*		*	*	*			*	*	*	*			
Quarter 3, 2013										*		*	*	*			*	*	*	*			
Quarter 4, 2013										*		*	*				*	*	*	*			
Quarter 1, 2014								*		*		*	*				*	*	*	*			
Quarter 2, 2014										*		*	*	*			*	*	*	*			
Quarter 3, 2014										*		*	*	*			*	*	*	*			
Quarter 4, 2014										*		*	*				*	*	*	*			
Quarter 1, 2015										*		*	*				*	*	*	*			
Quarter 2, 2015										*	*	*	*	*	*		*	*	*	*			
Quarter 3, 2015								*		*		*	*	*	*		*	*	*	*			
Quarter 4, 2015										*		*	*	*			*		*	*			
Quarter 1, 2016								*		*		*	*	*			*	*	*	*			
Quarter 2, 2016								*		*		*	*	*	*		*	*	*	*			
Quarter 3, 2016								*		*		*	*	*	*		*	*	*	*			
Quarter 4, 2016										*		*	*	*	*		*	*	*	*			
Quarter 1, 2017										*		*	*	*	*		*	*	*	*			
Quarter 2, 2017								*		*		*	*	*	*		*	*	*	*			
Quarter 3, 2017								*		*		*	*	*	*		*	*	*	*			
Quarter 4, 2017										*		*	*	*	*		*	*	*	*			
Quarter 1, 2018										*		*	*	*			*	*	*	*			
Quarter 2, 2018								*		*	*	*	*	*	*		*	*	*	*			
Quarter 3, 2018								*		*		*		*	*		*	*	*	*			
Quarter 4, 2018										*		*	*	*			*	*	*	*			
Quarter 1, 2019								*		*		*	*	*	*		*	*	*	*			
Quarter 2, 2019								*		*		*	*	*	*		*	*	*	*			
Quarter 3, 2019			*					*		*		*	*	*	*		*	*	*	*	*		
Quarter 4, 2019			*							*		*	*	*			*	*	*	*	*		
Quarter 1, 2020								*		*		*	*	*	*		*	*	*	*	*		
Quarter 2, 2020								*		*		*	*	*	*		*	*	*	*	*		
Quarter 3, 2020			*							*		*	*				*	*	*	*	*		
Quarter 4, 2020										*		*	*				*	*	*	*			
Quarter 1, 2021										*		*	*				*	*	*	*			
Quarter 2, 2021								*		*		*	*		*		*	*	*	*	*		
Quarter 3, 2021										*		*	*				*	*	*	*			
Quarter 4, 2021										*		*	*				*	*	*	*			
Quarter 1, 2022										*		*	*		*		*	*	*	*			
Quarter 2, 2022									*	*		*	*		*		*	*	*	*			
Quarter 3, 2022			*							*		*	*		*		*	*	*	*			
Quarter 4, 2022										*		*	*				*	*	*	*			
Quarter 1, 2023										*		*	*				*	*	*	*			
Quarter 2, 2023										*		*	*		*		*	*	*	*			
Quarter 3, 2023										*		*	*		*		*	*	*	*			
Quarter 4, 2023										*		*	*				*	*	*	*			
Quarter 1, 2024										*		*	*				*	*	*	*			
Quarter 2, 2024									*	*		*	*		*		*	*	*	*			
Quarter 3, 2024									*	*		*	*		*		*	*	*	*			
Quarter 4, 2024										*		*	*				*	*	*	*			
Quarter 1, 2025									*	*		*	*		*		*	*	*	*			
Quarter 2, 2025									*	*	*	*	*		*		*	*	*	*			
Quarter 3, 2025									*	*		*	*		*		*	*	*	*			
Quarter 4, 2025									*	*		*	*				*	*	*	*			
Quarter 1, 2026										*		*	*				*	*	*	*			
TECHNETIUM-99																							
Quarter 4, 2002																			*				
Quarter 1, 2003													*				*		*				
Quarter 2, 2003	*		*							*			*				*						
Quarter 3, 2003			*										*				*			*			
Quarter 4, 2003			*							*		*	*				*		*	*			
Quarter 1, 2004			*									*	*				*		*				
Quarter 2, 2004			*									*	*				*		*	*			
Quarter 3, 2004			*									*					*		*				
Quarter 4, 2004			*							*		*	*				*	*	*				
Quarter 1, 2005			*							*		*	*				*			*			
Quarter 2, 2005			*							*			*				*	*	*	*			
Quarter 3, 2005			*							*			*				*	*	*	*			
Quarter 4, 2005			*							*		*	*				*		*	*			

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
TECHNETIUM-99																							
Quarter 1, 2006										*		*	*						*	*			
Quarter 2, 2006			*							*			*				*	*	*	*			
Quarter 3, 2006			*							*			*				*	*	*	*			
Quarter 4, 2006	*									*		*	*						*	*			
Quarter 1, 2007			*							*			*				*		*	*			
Quarter 2, 2007			*							*		*	*				*	*		*			
Quarter 3, 2007			*							*	*	*	*				*		*	*			
Quarter 4, 2007			*							*		*	*				*		*	*			
Quarter 1, 2008			*							*		*	*				*	*	*	*			
Quarter 2, 2008			*							*	*		*				*		*	*			
Quarter 3, 2008										*		*	*				*			*			
Quarter 4, 2008			*							*		*	*				*	*	*	*			
Quarter 1, 2009			*							*		*	*				*						
Quarter 2, 2009			*							*		*	*				*	*		*			
Quarter 3, 2009			*							*	*	*	*				*			*			
Quarter 4, 2009			*							*		*	*				*						
Quarter 1, 2010			*							*		*	*				*						
Quarter 2, 2010			*							*			*				*	*		*			
Quarter 3, 2010			*							*	*	*	*				*						
Quarter 4, 2010			*							*		*	*				*						
Quarter 1, 2011										*			*				*						
Quarter 2, 2011			*							*			*				*			*			
Quarter 3, 2011			*							*			*				*			*			
Quarter 4, 2011			*							*	*	*	*				*						
Quarter 1, 2012			*							*			*				*			*			
Quarter 2, 2012			*							*			*				*		*	*			
Quarter 3, 2012			*							*		*	*				*						
Quarter 4, 2012										*		*	*				*		*	*			
Quarter 1, 2013										*			*				*		*	*			
Quarter 2, 2013										*		*	*				*		*	*			
Quarter 3, 2013			*							*		*	*				*		*	*			
Quarter 4, 2013			*							*		*	*				*		*	*			
Quarter 1, 2014			*							*	*		*				*		*	*			
Quarter 2, 2014			*							*	*		*	*			*		*	*			
Quarter 3, 2014			*							*			*				*			*			
Quarter 4, 2014			*							*	*	*	*				*		*	*			
Quarter 1, 2015			*							*	*	*	*				*			*			
Quarter 2, 2015			*							*	*		*				*			*			
Quarter 3, 2015			*							*	*	*	*				*	*	*	*			
Quarter 4, 2015			*							*	*	*	*				*	*		*			
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			*							*	*	*	*					*					

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
TECHNETIUM-99																							
Quarter 1, 2022			*							*	*	*	*				*						
Quarter 2, 2022			*							*	*	*	*				*			*			
Quarter 3, 2022			*								*	*	*										
Quarter 4, 2022			*							*	*	*					*			*			
Quarter 1, 2023											*	*	*										
Quarter 2, 2023			*							*	*	*	*				*						
Quarter 3, 2023			*							*	*		*				*						
Quarter 4, 2023										*	*		*				*						
Quarter 1, 2024											*	*	*										
Quarter 2, 2024											*	*	*										
Quarter 3, 2024			*							*	*		*				*						
Quarter 4, 2024			*							*	*	*	*				*						
Quarter 1, 2025			*							*	*		*				*			*			
Quarter 2, 2025			*							*			*				*						
Quarter 3, 2025			*							*	*	*	*				*			*			
Quarter 4, 2025			*								*	*	*				*						
Quarter 1, 2026										*	*	*	*				*						
THORIUM-230																							
Quarter 1, 2012	*								*					*									
Quarter 4, 2014	*		*																				
Quarter 3, 2015	*								*	*			*		*								
Quarter 1, 2017			*							*							*						
Quarter 4, 2024	*												*							*			
THORIUM-234																							
Quarter 2, 2003						*			*					*									
Quarter 4, 2007									*														
TOLUENE																							
Quarter 2, 2014										*	*		*										
TOTAL ORGANIC CARBON																							
Quarter 4, 2002																					*		
Quarter 1, 2003				*						*	*							*	*		*		
Quarter 2, 2003										*	*		*								*		
Quarter 3, 2003							*	*	*	*	*	*											
Quarter 4, 2003							*		*	*													
Quarter 1, 2004										*													
Quarter 2, 2004										*	*												
Quarter 3, 2004										*													
Quarter 4, 2004										*													
Quarter 1, 2005										*													
Quarter 2, 2005										*											*		
Quarter 3, 2005										*		*									*		
Quarter 4, 2005										*											*		
Quarter 1, 2006										*													
Quarter 2, 2006										*		*											
Quarter 4, 2006																	*						
Quarter 1, 2007	*									*													
Quarter 3, 2007	*					*	*	*	*	*			*	*			*						
Quarter 2, 2011											*												
Quarter 3, 2012	*																						
Quarter 3, 2016																			*				
TOTAL ORGANIC HALIDES																							
Quarter 4, 2002																		*	*		*		
Quarter 1, 2003				*														*			*		
Quarter 3, 2003				*																	*		
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 4, 2006																	*						
Quarter 1, 2007	*																						
Quarter 2, 2007	*																						
Quarter 3, 2007	*																						
Quarter 4, 2007	*																				*		
Quarter 1, 2008	*																						
Quarter 4, 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	*																						

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
TOTAL ORGANIC HALIDES																							
Quarter 4, 2010	*																						
Quarter 1, 2011	*																						
Quarter 3, 2013																					*		
Quarter 4, 2024																						*	
TRICHLOROETHENE																							
Quarter 4, 2002														■		■					■	■	
Quarter 1, 2003														■		■					■	■	
Quarter 2, 2003														■		■					■	■	
Quarter 3, 2003														■		■					■	■	
Quarter 4, 2003														■		■					■	■	
Quarter 1, 2004														■		■					■	■	
Quarter 2, 2004												■		■		■		■	■		■	■	
Quarter 3, 2004												■		■		■		■	■		■	■	
Quarter 4, 2004												■		■		■		■	■		■	■	
Quarter 1, 2005												■		■		■		■	■		■	■	
Quarter 2, 2005												■		■		■		■	■		■	■	
Quarter 3, 2005												■		■		■		■	■		■	■	
Quarter 4, 2005												■		■		■		■	■		■	■	
Quarter 1, 2006												■		■		■		■	■		■	■	
Quarter 2, 2006												■		■		■		■	■		■	■	
Quarter 2, 2007												■		■		■			■		■	■	
Quarter 3, 2007												■		■		■			■		■	■	
Quarter 4, 2007												■		■		■			■		■	■	
Quarter 1, 2008												■		■		■			■		■		
Quarter 2, 2008												■		■		■			■		■		
Quarter 3, 2008												■		■		■			■		■		
Quarter 4, 2008												■		■		■			■		■		
Quarter 1, 2009												■		■		■			■		■		
Quarter 2, 2009												■		■		■			■		■		
Quarter 3, 2009												■		■		■			■		■		
Quarter 4, 2009											■	■		■		■			■		■		
Quarter 1, 2010												■		■		■			■		■		
Quarter 2, 2010												■		■		■			■		■		
Quarter 3, 2010												■		■		■			■		■	■	
Quarter 4, 2010												■		■		■			■		■	■	
Quarter 1, 2011												■		■		■			■		■	■	
Quarter 2, 2011												■		■		■			■		■		
Quarter 3, 2011												■		■		■			■		■		
Quarter 4, 2011												■		■		■			■		■	■	
Quarter 1, 2012												■		■		■			■		■	■	
Quarter 2, 2012												■		■					■		■		
Quarter 3, 2012												■		■					■		■		
Quarter 4, 2012											■	■		■		■			■		■		
Quarter 1, 2013												■		■		■			■		■		
Quarter 2, 2013												■		■					■		■		
Quarter 3, 2013												■		■					■		■		
Quarter 4, 2013												■		■		■			■		■		
Quarter 1, 2014												■		■		■			■		■		
Quarter 2, 2014												■		■							■		
Quarter 3, 2014												■		■					■		■		
Quarter 4, 2014												■		■		■			■		■		
Quarter 1, 2015												■		■		■			■		■		
Quarter 2, 2015												■		■					■		■		
Quarter 3, 2015												■		■	■				■		■		
Quarter 4, 2015												■		■		■			■		■		
Quarter 1, 2016												■		■		■			■		■		
Quarter 2, 2016												■		■					■		■		
Quarter 3, 2016												■		■		■			■		■		
Quarter 4, 2016												■		■		■			■		■		

Chart of MCL and Historical UTL Exceedances for the C-746-S&T Landfills (Continued)

Groundwater Flow System	UCRS					URGA											LRGA						
Gradient	S	D	D	D	U	S	S	S	S	S	D	D	D	D	U	U	S	D	D	D	D	U	U
Monitoring Well	386	389	390	393	396	221	222	223	224	384	369	372	387	391	220	394	385	370	373	388	392	395	397
TRICHLOROETHENE																							
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 3, 2024																						■	
TURBIDITY																							
Quarter 4, 2002																					✱		
Quarter 1, 2003							✱					✱		✱									
URANIUM																							
Quarter 4, 2002																		✱	✱				
Quarter 1, 2003																			✱				
Quarter 4, 2003							✱																
Quarter 1, 2004							✱	✱	✱					✱			✱						
Quarter 4, 2004																	✱						
Quarter 4, 2006																			✱		✱		
ZINC																							
Quarter 3, 2003												✱											
Quarter 4, 2003							✱		✱			✱											
Quarter 4, 2004							✱																
Quarter 4, 2007							✱	✱	✱														

✱ Statistical test results indicate an elevated concentration (i.e., a statistically significant increase).

■ 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

S = Sidegradient; D = Downgradient; U = Upgradient

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APPENDIX H

METHANE MONITORING DATA

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Date:	March 3, 2026	Time:	1245	Monitor:	Michael Hideg

Weather Conditions: Sunny, Approximately 72º F, humidity: 56%

Monitoring Equipment: Multi RAE – Serial # 11881

Monitoring Location																		Reading (% LEL)
Ogden Landing Road Entrance	Checked at ground level																	0
North Landfill Gate	Checked at ground level																	0
West Side of Landfill: North 37° 07.652' West 88° 48.029'	Checked at ground level																	0
East Side of Landfill: North 37° 07.628' West 88° 47.798'	Checked at ground level																	0
Cell 1 Gas Vent (17)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	0
Cell 2 Gas Vent (3)	10	20	30															0
Cell 3 Gas Vent (7)	10	20	30	40	50	60	70											0
Landfill Office	Checked at ground level																	0
Suspect or Problem Areas	None noted																	N/A

Remarks:

All gas vents checked 1" from opening.

Performed by: MICHAEL HIDEG (Affiliate) Digitally signed by MICHAEL HIDEG (Affiliate) Date: 2026.03.04 12:38:16 -06'00'

Signature **Date**

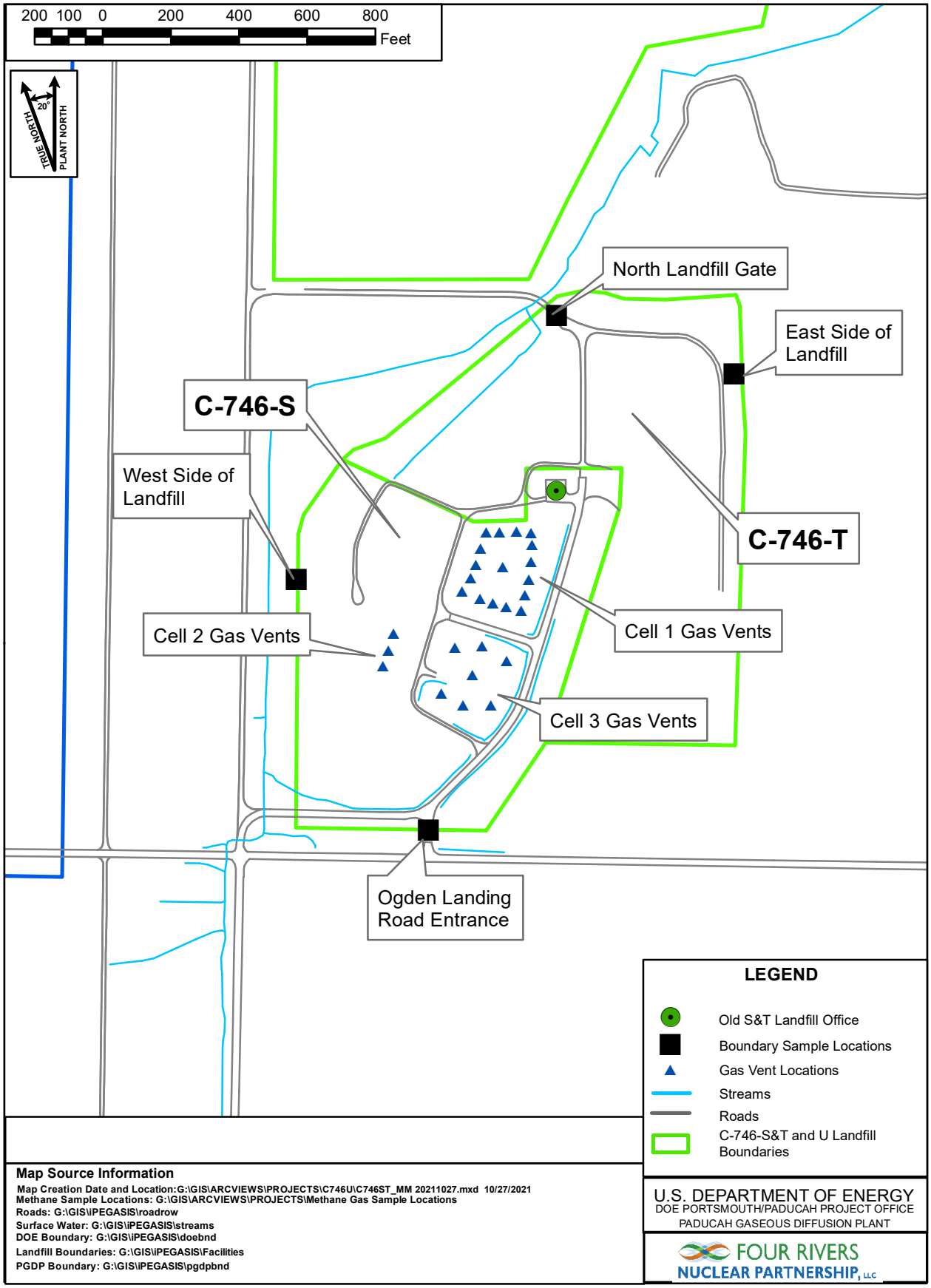

Figure H.1. C-746-S&T Landfill Methane Monitoring Locations

APPENDIX I

SURFACE WATER ANALYSES AND LABORATORY REPORTS

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Paducah OREIS
SURFACE WATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: L135 UPSTREAM **Period:** 1st Quarter 2026

SAMPLE ID: L135SS2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Chloride	44	mg/L		1	/	EPA-300.0		X
Sulfate	7.97	mg/L		0.4	/	EPA-300.0		X
Conductivity	267	µmhos/cm			/	FS		X
pH	7.8	Std Unit			/	FS		X
Iron	3.31	mg/L		0.1	/	EPA-200.8		X
Sodium	18.1	mg/L		0.25	/	EPA-200.8		X
Uranium	0.00688	mg/L		0.0002	/	EPA-200.8		X
Alpha activity	1.29	pCi/L	U	7.64	3.84 / 3.84	SW846-9310		X
Beta activity	10.6	pCi/L		9.98	6.6 / 6.82	SW846-9310		X
Dissolved Solids	218	mg/L	*	10	/	EPA-160.1	J	X
Suspended Solids	17.6	mg/L		10	/	EPA-160.2		X
Chemical Oxygen Demand (COD)	22.1	mg/L		20	/	EPA-410.4		X
Total Solids	286	mg/L		10	/	SM-2540B		X
Total Organic Carbon (TOC)	8.35	mg/L		2	/	SW846-9060A		X

Paducah OREIS
SURFACE WATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: L136 INSTREAM **Period:** 1st Quarter 2026

SAMPLE ID: L136SS2-26 **Sample Type:** REG **Date Collected:** 2/10/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Chloride	0.626	mg/L		0.2	/	EPA-300.0		X
Sulfate	28.6	mg/L		0.8	/	EPA-300.0		X
Conductivity	309	µmhos/cm			/	FS		X
pH	7.78	Std Unit			/	FS		X
Iron	0.0983	mg/L	J	0.1	/	EPA-200.8		X
Sodium	2.72	mg/L		0.25	/	EPA-200.8		X
Uranium	0.00515	mg/L		0.0002	/	EPA-200.8		X
Alpha activity	-0.82	pCi/L	U	7.98	3.32 / 3.32	SW846-9310		X
Beta activity	5.03	pCi/L	U	12.2	7.13 / 7.18	SW846-9310		X
Dissolved Solids	202	mg/L	*	10	/	EPA-160.1	J	X
Suspended Solids	2	mg/L	J	5	/	EPA-160.2		X
Chemical Oxygen Demand (COD)	22.1	mg/L		20	/	EPA-410.4		X
Total Solids	250	mg/L		10	/	SM-2540B		X
Total Organic Carbon (TOC)	9.56	mg/L		2	/	SW846-9060A		X

Paducah OREIS
SURFACE WATER MONITORING REPORT

Facility: C-746-S&T Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: L154 INSTREAM **Period:** 1st Quarter 2026

SAMPLE ID: L154US2-26 **Sample Type:** REG **Date Collected:** 1/9/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Chloride	10.8	mg/L		0.4	/	EPA-300.0		X
Sulfate	1.23	mg/L		0.4	/	EPA-300.0		X
Conductivity	291	µmhos/cm			/	FS		X
pH	7.08	Std Unit			/	FS		X
Iron	1.07	mg/L		0.1	/	EPA-200.8		X
Sodium	6.59	mg/L		0.25	/	EPA-200.8		X
Uranium	0.00401	mg/L		0.0002	/	EPA-200.8		X
Alpha activity	0.0464	pCi/L	U	7.01	3.05 / 3.05	SW846-9310		X
Beta activity	10.9	pCi/L		9.45	6.41 / 6.65	SW846-9310		X
Dissolved Solids	176	mg/L	*	10	/	EPA-160.1	J	X
Suspended Solids	50	mg/L		12.5	/	EPA-160.2		X
Chemical Oxygen Demand (COD)	30.1	mg/L		20	/	EPA-410.4		X
Total Solids	211	mg/L		10	/	SM-2540B		X
Total Organic Carbon (TOC)	11.1	mg/L		1	/	SW846-9060A		X

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

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

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

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

ATTACHMENT I1

GEL LABORATORIES CERTIFICATES OF ANALYSIS

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GEL LABORATORIES LLC

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

Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-02)

Client Sample ID: L154US2-26
Sample ID: 759527001
Matrix: WS
Collect Date: 09-JAN-26
Receive Date: 13-JAN-26
Collector: Client

Project: FRNP00707
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC, Gross A/B, liquid "As Received"														
Alpha	U	0.0464	+/-3.05	7.01	+/-3.05	15.0	pCi/L			JH2	01/14/26	1729	2927387	1
Beta		10.9	+/-6.41	9.45	+/-6.65	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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Surface Water Quarterly(US26-02)

Client Sample ID:	L154US2-26	Project:	FRNP00707
Sample ID:	759527001	Client ID:	FRNP007
Matrix:	WS		
Collect Date:	09-JAN-26 08:44		
Receive Date:	13-JAN-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		11.1	0.330	1.00	mg/L		1	KB3	01/13/26	2005	2926769	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Sulfate		1.23	0.133	0.400	mg/L		1	TXT1	01/13/26	1411	2926635	2
Chloride		10.8	0.134	0.400	mg/L		2	TXT1	01/13/26	1650	2926635	3
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Sodium		6.59	0.0800	0.250	mg/L	1.00	1	BB2	01/14/26	1601	2926830	4
Iron		1.07	0.0330	0.100	mg/L	1.00	1	BB2	01/15/26	0848	2926830	5
Uranium		0.00401	0.0000670	0.000200	mg/L	1.00	1	BB2	01/15/26	1105	2926830	6
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	176	2.38	10.0	mg/L			SC1	01/16/26	1454	2928359	7
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids		50.0	2.85	12.5	mg/L			SC1	01/14/26	0854	2927470	8
SM 2540 B Solids, Total "As Received"												
Total Solids		211	6.29	10.0	mg/L			SC1	01/13/26	1425	2927124	9
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		30.1	8.95	20.0	mg/L		1	BR2	01/14/26	1602	2926987	10

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	ES3	01/13/26	1600	2926829

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Surface Water Quarterly(US26-02)

Client Sample ID:	L154US2-26	Project:	FRNP00707
Sample ID:	759527001	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 200.8	
6	EPA 200.8	
7	EPA 160.1	
8	EPA 160.2	
9	SM 2540B	
10	EPA 410.4	

Notes:

Column headers are defined as follows:

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

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ATTACHMENT I2

GEL LABORATORIES CERTIFICATES OF ANALYSIS

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Surface Water Quarterly(SS26-02)

Client Sample ID:	L135SS2-26	Project:	FRNP00706
Sample ID:	763600001	Client ID:	FRNP007
Matrix:	WS		
Collect Date:	10-FEB-26 11:16		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		8.35	0.330	2.00	mg/L		1	KB3	02/13/26	0317	2943913	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Sulfate		7.97	0.133	0.400	mg/L		1	CWW	02/11/26	1830	2944233	2
Chloride		44.0	0.335	1.00	mg/L		5	CWW	02/12/26	0818	2944233	3
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		3.31	0.0330	0.100	mg/L	1.00	1	BAJ	02/13/26	2014	2943964	4
Uranium		0.00688	0.0000670	0.000200	mg/L	1.00	1					
Sodium		18.1	0.0800	0.250	mg/L	1.00	1	BAJ	02/16/26	1417	2943964	5
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	218	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	6
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids		17.6	2.28	10.0	mg/L			SC1	02/12/26	0913	2944364	7
SM 2540 B Solids, Total "As Received"												
Total Solids		286	6.29	10.0	mg/L			SC1	02/12/26	1315	2944366	8
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		22.1	8.95	20.0	mg/L		1	BR2	02/27/26	1744	2953697	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JB7	02/11/26	1605	2943963

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Surface Water Quarterly(SS26-02)

Client Sample ID:	L135SS2-26	Project:	FRNP00706
Sample ID:	763600001	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 200.8	
6	EPA 160.1	
7	EPA 160.2	
8	SM 2540B	
9	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: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Surface Water Quarterly(SS26-02)

Client Sample ID:	L136SS2-26	Project:	FRNP00706
Sample ID:	763600002	Client ID:	FRNP007
Matrix:	WS		
Collect Date:	10-FEB-26 11:06		
Receive Date:	11-FEB-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		9.56	0.330	2.00	mg/L		1	KB3	02/13/26	0349	2943913	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride		0.626	0.0670	0.200	mg/L		1	CWW	02/11/26	1902	2944233	2
Sulfate		28.6	0.266	0.800	mg/L		2	CWW	02/12/26	0850	2944233	3
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron	J	0.0983	0.0330	0.100	mg/L	1.00	1	BAJ	02/13/26	2017	2943964	4
Uranium		0.00515	0.0000670	0.000200	mg/L	1.00	1					
Sodium		2.72	0.0800	0.250	mg/L	1.00	1	BAJ	02/16/26	1418	2943964	5
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	202	2.38	10.0	mg/L			SC1	02/12/26	1635	2944367	6
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids	J	2.00	1.14	5.00	mg/L			SC1	02/12/26	0913	2944364	7
SM 2540 B Solids, Total "As Received"												
Total Solids		250	6.29	10.0	mg/L			SC1	02/12/26	1315	2944366	8
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		22.1	8.95	20.0	mg/L		1	BR2	02/27/26	1744	2953697	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JB7	02/11/26	1605	2943963

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Certificate of Analysis

Report Date: April 3, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-S&T Landfill Surface Water Quarterly(SS26-02)

Client Sample ID:	L136SS2-26	Project:	FRNP00706
Sample ID:	763600002	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 200.8	
6	EPA 160.1	
7	EPA 160.2	
8	SM 2540B	
9	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

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Surface Water Quarterly(SS26-02)

Client Sample ID: L135SS2-26
Sample ID: 763600001
Matrix: WS
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00706
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	1.29	+/-3.84	7.64	+/-3.84	15.0	pCi/L			JH2	02/16/26	1540	2944458	1
Beta		10.6	+/-6.60	9.98	+/-6.82	50.0	pCi/L							

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: April 3, 2026

Contact: Ms. Jaime Morrow

Project: C-746-S&T Landfill Surface Water Quarterly(SS26-02)

Client Sample ID: L136SS2-26
Sample ID: 763600002
Matrix: WS
Collect Date: 10-FEB-26
Receive Date: 11-FEB-26
Collector: Client

Project: FRNP00706
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	-0.820	+/-3.32	7.98	+/-3.32	15.0	pCi/L			JH2	02/16/26	1540	2944458	1
Beta	U	5.03	+/-7.13	12.2	+/-7.18	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

APPENDIX J

ANALYTICAL LABORATORY CERTIFICATION

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Accredited Laboratory

A2LA has accredited

GEL LABORATORIES, LLC

Charleston, SC

for technical competence in the field of

Environmental Testing

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2017, the 2016 TNI Environmental Testing Laboratory Standard, and the requirements of the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP) and Department of Energy Consolidated Audit Program (DOECAP) as detailed in version 6.0 of the DoD Quality System Manual for Environmental Laboratories (QSM), the A2LA *R206 – Specific Requirements – Environmental Testing Laboratory Accreditation Program*, the A2LA *R220 – Specific Requirements – A2LA DoD Environmental Laboratory Accreditation Program*, and the A2LA *R252 – Specific Requirements – A2LA DOECAP Environmental Laboratory Accreditation Program*, accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated *April 2017*).

Presented this 9th day of May 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2567.01
Valid to June 30, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.

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APPENDIX K

LABORATORY ANALYTICAL METHODS

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LABORATORY ANALYTICAL METHODS

Analytical Method	Preparation Method	Product
SM 2540B		Solids, Total
SW846 8260D		Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
SW846 8011	SW846 8011 PREP	Analysis of 1,2-Dibromoethane (EDB), 1,2-Dibromo-3-Chloropropane (DBCP) and 1,2,3-Trichloropropane in Water by GC/ECD Using Methods 504.1 or 8011
SW846 8082A	SW846 3535A	Analysis of Polychlorinated Biphenyls by GC/ECD by ECD
SW846 6020B	SW846 3005A	Determination of Metals by ICP-MS
SW846 7470A	SW846 7470A Prep	Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer
SW846 9060A		Carbon, Total Organic
SW846 9012B	SW846 9010C Distillation	Cyanide, Total
EPA 300.0		Ion Chromatography Iodide
SW846 9056A		Ion Chromatography
EPA 160.1		Solids, Total Dissolved
EPA 160.2		Solids, Total Suspended
EPA 200.8	EPA 200.2	Determination of Metals by ICP-MS
EPA 410.4		COD
Eichrom Industries, AN-1418		AlphaSpec Ra226, Liquid
DOE EML HASL-300, Th-01-RC Modified		Th-01-RC M, Th Isotopes, Liquid
EPA 904.0 Modified		904.0Mod, Ra228, Liquid
SW846 9310		9310, Alpha/Beta Activity, liquid
EPA 905.0 Modified		905.0Mod, Sr90, liquid
DOE EML HASL-300, Tc-02-RC Modified		Tc-02-RC-MOD, Tc99, Liquid
EPA 906.0 Modified		906.0M, Tritium Dist, Liquid
SW846 9020B		Total Organic Halogens (TOX)

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APPENDIX L

MICRO-PURGING STABILITY PARAMETERS

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Micro-Purge Stability Parameters for the C-746-S&T Landfills

	Temperature (°F)	Conductivity (µmhos/cm)	pH (Std Unit)	Dissolved oxygen (mg/L)	Turbidity (NTU)
MW220					
Date Collected:2/9/26					
1302	62.7	325	5.90	7.33	1.76
1307	61.7	322	5.87	6.18	1.74
1312	61.0	320	5.83	6.10	1.78
MW222					
Date Collected:2/9/26					
1010	61.2	317	6.10	6.30	3.17
1015	61.0	317	6.04	5.88	3.08
1020	61.0	316	6.03	5.78	3.18
MW224					
Date Collected:2/9/26					
1215	62.2	368	5.99	4.22	1.74
1220	62.0	370	5.92	3.47	1.71
1225	62.0	371	5.93	3.37	1.76
MW370					
Date Collected:1/21/26					
1154	56.6	414	6.00	6.19	1.10
1159	56.9	415	5.92	5.39	1.00
1204	56.9	415	5.91	5.29	1.03
MW373					
Date Collected:1/22/26					
0922	57.6	926	5.90	3.10	5.11
0927	57.8	940	5.87	2.10	5.08
0932	58.0	942	5.87	2.01	5.00
MW385					
Date Collected:2/10/26					
1201	63.0	428	6.30	3.06	5.90
1206	62.9	430	6.24	2.06	5.84
1211	63.0	431	6.23	1.99	6.00
MW387					
Date Collected:2/10/26					
0752	58.4	562	6.03	5.16	6.70
0757	58.2	568	5.99	4.55	7.06
0802	58.3	570	5.97	4.46	6.97
MW391					
Date Collected:2/9/26					
0842	54.4	336	5.88	6.53	0.62
0847	53.5	335	5.83	5.06	5.94
0852	52.4	334	5.84	5.84	6.82
MW393					
Date Collected:2/9/26					
0927	54.8	344	6.22	2.89	2.06
0932	55.4	393	6.19	2.00	5.15
0937	55.5	390	6.17	2.02	5.13
MW395					
Date Collected:2/11/26					
0855	57.1	390	5.80	5.77	4.48
0900	57.3	392	5.75	5.55	4.36
0905	57.1	393	5.74	5.46	4.46
MW397					
Date Collected:2/9/26					
1235	61.6	284	5.99	6.38	157.84
1240	62.1	279	5.98	6.44	157.00
1245	62.1	278	5.97	6.42	160.37

	Temperature (°F)	Conductivity (µmhos/cm)	pH (Std. Unit)	Dissolved oxygen (mg/L)	Turbidity (NTU)
MW221					
Date Collected:2/9/26					
0833	56.2	385	6.06	7.77	4.36
0838	55.8	384	5.95	5.92	4.20
0843	55.7	383	5.94	5.84	3.96
MW223					
Date Collected:2/9/26					
0923	59.4	370	5.99	3.63	5.76
0928	59.5	370	5.94	3.33	5.60
0933	59.6	371	5.93	3.27	5.67
MW369					
Date Collected: 1/21/26					
0943	59.0	347	5.87	4.20	2.18
0948	58.9	349	5.85	3.47	1.00
0953	58.7	350	5.85	3.42	1.08
MW372					
Date Collected:1/22/26					
0830	54.5	747	6.11	6.00	4.00
0835	54.9	750	6.04	3.66	3.67
0840	55.0	755	6.03	3.61	3.41
MW384					
Date Collected:2/10/26					
0928	60.0	424	6.06	6.18	4.86
0933	60.1	425	5.91	5.77	4.99
0938	60.0	426	5.89	5.70	5.12
MW386					
Date Collected:2/10/26					
1254	63.5	577	6.60	2.06	4.52
1259	63.4	574	6.55	1.68	4.64
1304	64.0	576	6.54	1.59	4.58
MW388					
Date Collected:2/10/26					
0840	59.4	444	6.03	6.37	4.75
0845	59.3	441	5.98	6.00	4.92
0850	59.4	439	5.94	5.93	4.77
MW392					
Date Collected:2/9/26					
1023	58.0	315	6.07	3.72	0.00
1028	57.7	307	6.01	2.87	0.00
1033	57.7	306	6.01	2.83	0.00
MW394					
Date Collected:2/11/26					
0805	54.8	416	5.89	6.78	4.93
0810	53.8	414	5.80	6.12	5.03
0815	53.7	414	5.79	6.06	5.00
MW396					
Date Collected:2/11/26					
0951	58.3	640	6.26	4.22	5.66
0956	58.3	650	6.21	2.47	4.77
1001	58.4	656	6.21	2.40	4.87

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