NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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March 9, 2023

Cattaraugus County DPW Austin Kimes Jack Ellis Drive 8810 Route 242 Little Valley, NY 14755

Re: Periodic Review Report (PRR) Response Letter Farwell Road Landfill, Site No.: 905024 Ischua, Cattaraugus County

Dear Austin Kimes (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: January 16, 2022 to January 16, 2023.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year(s), your next PRR is due on February 15, 2024. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

While the overall Certification for the site is accepted by the Department, there are several items in the PRR that warrant comment and revision in future PRRs:

- Section 4.2, Dissolved Oxygen: dissolved oxygen should be included in the list of monitored field parameters as it will be a requirement of the Site Management Plan (SMP) and was recorded on the field forms provided by the sampling subcontractor;
- 2) <u>Section 4.2, VOCs</u>: the OM&M wells are to be sampled for the target compound list (TCL) volatile organic compounds (VOCs) in the draft SMP and per past correspondence with the Department. Future groundwater sampling events must analyze for the TCL VOCs in OM&M wells;
- 3) <u>Section 4.5, Groundwater Contours</u>: as previously requested by the Department, groundwater contours should be generated for both the shallow and intermediate



wells. The contours for the shallow zone should also use the surface water elevations from Ischua Creek as it has been documented that the shallow groundwater discharges into the Creek. It is not appropriate to contour groundwater elevations from wells screened in different units on a single figure. Additionally, the software and/or methods used to generate the contours must be described in future PRRs;

- 4) Section 4.8, VOCs: future OM&M wells will be sampled for TCL VOCs, see Comment 2; and
- 5) Figure 3, Groundwater Contours: in addition to the comments provided in Comment 3, the shallow groundwater contour figure must show the location of the surface water gauging locations in Ischua Creek. Future groundwater contour figures should only show locations used to generate the contours or use different legend items for the features screened in each geological unit.

The monitoring program for 2023 must address the above comments. If you have any questions on the above comments, please contact me at 716-851-7220 or benjamin.mcpherson@dec.ny.gov.

Sincerely.

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PERIODIC REVIEW REPORT FOR THE

FARWELL ROAD LANDFILL FARWELL ROAD ISCHUA, NEW YORK 14743 NYSDEC SSF SITE NUMBER 905024

REPORTING PERIOD: JANUARY 16, 2022 — JANUARY 16, 2023



Prepared for:

Cattaraugus County Department of Public Works Refuse Division

> 8810 Route 242 Little Valley, New York 14755

> > FEBRUARY 2023



403 Main Street, Suite #330 Buffalo, N.Y. 14203 716-989-3325

PERIODIC REVIEW REPORT AND ANNUAL REPORT

FARWELL ROAD LANDFILL FARWELL ROAD ISCHUA, NEW YORK 14743 SSF SITE NUMBER 905024

REPORTING PERIOD: JANUARY 16, 2022 - JANUARY 16, 2023

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1.0 INTRODUCTION

The Cattaraugus County Department of Public Works (CCDPW) retained Greenman-Pedersen Inc. (GPI) to evaluate conditions at the Farwell Road Landfill in the Town of Ischua, New York and prepare this Periodic Review Report (PRR) for the Site. This report also summarizes the results of water quality monitoring at the Farwell Landfill (FL) during the annual monitoring event of 2022. GPI conducted the annual Periodic Review in February 2022 for the reporting period occurring between January 16, 2022 through January 16, 2023. The Site is located at 1430 Farwell Road in the Town of Ischua, New York. This PRR is being completed to meet the Site Management Periodic Review Report and Institutional Control / Engineering Control (IC/EC) Certification requirements under the New York State Department of Environmental Conservation (NYSDEC) State Superfund (SSF) Program. The NYSDEC SSF site number is 905024. This PRR documents the implementation of and compliance with the Farwell Landfill Site Management Plan, November 2020; the Record of Decision (March 2000); and the Deed Restriction filed with the Cattaraugus County Clerk's Office (June 2003, updated February 2023).

2.0 BACKGROUND INFORMATION

The landfill is owned by Cattaraugus County and occupies approximately 16 acres of the northern portion of a 205-acre property owned by the County. The landfill is located on Farwell Road off of NYS Route 16 along the western wall of the Ischua Creek valley. The landfill is bounded to the south by Farwell Road, to the west by a narrow strip of trees and fields and to the north and east by an active Buffalo & Pittsburgh Railroad line and Ischua Creek. At its closest point, the creek is approximately 400 feet from the landfill. Figure 1 shows the location of the Site and Figure 1A depicts the general outline of the County owned property. The Site is comprised of two individual adjoining tax parcels (i.e. 68.001-1-18 and 68.003-1-1), which are depicted on Figures 1B and 1C.

The CCDPW operated the FL from 1975 until 1989, when the last phase of the landfill was closed pursuant to a 1984 New York State Department of Environmental Conservation (NYSDEC) consent order (84-106). The FL was constructed in three phases to form a contiguous landfill. The Phase I and Phase II areas of the landfill are unlined. The disposal of municipal solid wastes, resource recovery ash and NYSDEC approved non-hazardous industrial wastes took place in these two areas until 1984, when they reached capacity. The Phase III area of the landfill was constructed with a compacted soil liner and a leachate collection system. This area of the landfill accepted only commercial, permitted industrial, C&D waste and incinerator ash. The ash was used primarily as daily cover. This area of the landfill reached capacity and was closed in 1989.

Landfill closure included the capping of the entire landfill with 12 to 18 inches of compacted soil followed by a vegetated six-inch topsoil layer. During closure, leachate collection piping was also added to the southeastern, eastern and western sides of the landfill where leachate outbreaks had been historically observed.

In response to a 1984 Community Right to Know Survey, the Alcas Cutlery Corp. stated that it disposed of approximately 8.5 tons of trichloroethylene (TCE) sludge mixed with sawdust at the landfill between 1975 and 1984. The disposal time period indicates that the TCE wastes were disposed of in the unlined portions of the landfill. Underlying soils in these disposal areas consist of glacial till containing coarse sand and gravel. The porous nature of these soils has allowed TCE contamination to migrate to the confined principal aquifer below this disposal area. TCE levels in this aquifer have been historically detected at concentrations as high as 10 to 25 times the applicable groundwater standard. As a result, in 1996, the NYSDEC classified the landfill as a Class 2 inactive hazardous waste site. Contamination has been found in wells as far as 550 feet south of the landfill.

A focused Remedial Investigation and Feasibility Study (RI/FS) was completed in 1999 to compile the site information necessary to develop a strategy for addressing the chlorinated volatile organic compounds (VOCs) migrating from the landfill. Based on the findings of the RI/FS, the NYSDEC and the New York State Department of Health (NYSDOH) selected a remedy and issued a Record of Decision (ROD) in March 2000. The ROD indicated that the chlorinated VOCs would be addressed via natural attenuation. In order to monitor the effectiveness of the natural attenuation, the ROD required the installation of compliance monitoring wells (MW-21, MW-22 and MW-23) at locations approximately one-quarter mile downgradient of the landfill and long-term water quality monitoring at the landfill. Additionally, the ROD required that cap repairs be completed. The cap repairs were completed in 2002 and the landfill is monitored in accordance with the Farwell Landfill Site Management Plan (SMP), November 2020.

In January 2008, the NYSDEC sent a letter to the County indicating that the ROD objectives had been successfully met and therefore it was appropriate to reclassify the landfill from Class 2 to Class 4. Class 4 means the site is properly closed but requires continued management. In light this reclassification as well as the results of previous sampling events that shows the VOC plume to be static and continuing evidence that natural attenuation of the VOC plume is ongoing, the County proposed modifications to the environmental monitoring plan, which were subsequently approved by the NYSDEC. These modifications included: the analysis of the samples from the OM&M program wells changed from quarterly analysis for Part 363 Baseline Parameters to analysis of Baseline VOCs only; and the analysis of dissolved gases in the OM&M program was changed from quarterly collection and analysis to annual collection and analysis.

A request for post-closure landfill monitoring reduction for the Farwell Landfill was submitted to the NYSDEC on July 20, 2020 and was approved on September 14, 2020. Monitoring events will be reduced to annual/biennial sampling occurring in May with the first event completed in May 2021. This event consisted of the sampling and analysis of groundwater and leachate samples as outlined in NYSDEC's September 14, 2020 approval letter and was conducted in general accordance with the procedures specified in the Farwell Landfill Site Management Plan (SMP), November 2020. It should be noted that the SMP was submitted to NYSDEC in January 2021 but has yet to be formally approved by the NYSDEC. A copy of NYSDEC's September 14, 2020

approval letter along with a copy of Section 6 from the July 20, 2020 reduction request summarize the changes to the post-closure landfill monitoring program is included in Appendix A.

3.0 PERIODIC REVIEW

GPI conducted the annual Periodic Review in February 2023 for the reporting period occurring between January 16, 2022 through January 16, 2023. This Periodic Review is discussed in the sections below. Appendix B includes the NYSDEC "Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form."

3.1 <u>Institutional and Engineering Controls</u>

Since remaining contaminated groundwater exists beneath the Site, Engineering Controls and Institutional Controls were required to protect human health and the environment.

The ECs implemented at the Site include a cover system and a leachate collection system. The cover system is comprised of 18 inches of compacted soil followed by a vegetated six-inch topsoil layer that was completed in 1989. Also, during closure, leachate collection piping was also added to the southeastern, eastern and western sides of the landfill where leachate outbreaks had been historically observed. Remedial actions completed in 2002 included repairs to damaged and settled areas of the soil cover system.

In addition to the ECs a series of ICs were also required for the Site. The ICs implemented at the Site include:

- Compliance with the Deed Restriction filed with the Cattaraugus County Clerk's Office (June 2003, updated February 2023).
- Operation and maintenance of all IC's and ECs in accordance with the SMP;
- Inspection of all ECs at the Site in accordance with the SMP;
- No person shall engage in any activity that will, or that reasonably is anticipated to
 prevent or interfere significantly with any proposed, ongoing or completed program at
 the Site or that will or is reasonably foreseeable to expose the public health or the
 environment to a significantly increased threat of harm or damage;
- Reporting of all required monitoring data in accordance with the SMP;
- The Site may only be used for solid waste management facilities and may not ever be used for other purposes without the express written waiver of such prohibition by the NYSDEC;
- The use of the groundwater underlying the Site is prohibited without: treatment rendering it safe for intended use; and permission from the NYSDEC;
- The Deed Restrictions shall run with the land and shall be binding upon all future owners
 of the Site; and

 The NYSDEC shall retain the right to access the Site at any time in order to evaluate any and all controls.

3.1.1. Inspection of Engineering and Institutional Controls

In February 2023 GPI's Project Manager, Mr. James C. Manzella, CHMM, prepared and evaluated the required documentation for the Post-Remediation Media Monitoring and Sampling, the Site Wide Inspections, and the Cover System Monitoring. This included the evaluation and reporting on the samples collected from the groundwater monitoring wells and leachate storage tank for chemical analysis in May 2022; review of the the Post-Closure Inspection Forms prepared for the monthly inspections performed in 2022; and discussions with Mr. Austin Kimes, Director of Weights and Measures for the Cattaraugus County Department of Public Works, during the evaluation. The evaluation of the IC/ECs are included in Sections 4.0 and 5.0 below.

4.0 POST-REMEDIATION MEDIA MONITORING AND SAMPLING

4.1 Overview

Water quality monitoring has been performed at the Farwell Landfill since the late 1970s. The permanent monitoring program for the landfill includes an Operation, Maintenance & Monitoring (OM&M) annual monitoring program and Part 360 biennial monitoring program. The permanent monitoring network currently consists of 23 groundwater monitoring wells (11 groundwater monitoring wells sampled annually as part of OM&M program, seven groundwater monitoring wells sampled biennially as part of the Part 360 program, and five groundwater monitoring recently removed (to remain in place and not be decommissioned) from the monitoring program following the July 2020 reduction request, one on-site (SW-4) and three off-site (SW-1, SW-2 & SW-3) surface water monitoring locations (removed from the Part 360 program), three piezometer/off-site water level monitoring locations (measured annually) and one leachate collection system sample collected from the on-site leachate storage tank (L-1) (sampled annually as part of the Part 360 program). Figure 2 depicts the on-site monitoring network as well as the locations of the five off-site compliance monitoring wells (i.e. MW-21, MW-22, MW-23, MW-24 and MW-25). Figure 3 depicts the groundwater contours for the shallow monitoring wells up and downgradient of the landfill.

The upgradient monitoring wells include the OM&M program wells MW-17I and MW-17S and the Part 360 program wells MW-6 and MW-13D. The downgradient wells include the OM&M program wells MW-14S, MW-14I, MW-15S, MW-15I, MW-16S, MW-16I, MW-21, MW-22, and MW-23; the Part 360 program wells MW-9D, MW-10S, MW-10D, MW-11S and MW-11D. The downgradient OM&M program wells MW-19, MW-20, MW-24, and MW-25 have been removed from the monitoring program and will remain on site rather than be decommissioned. Downgradient well MW-9S (a Part 360 program well) historically has not been able to be sampled

due to either being consistently dry or having insufficient water and as a result is no longer included in the monitoring program. Additionally, P-15, MW-185, MW-18D and Ischua Creek serve as annual water level monitoring locations. The 'S' in the well nomenclature indicates a shallow well the 'D' indicates a deep well, while an 'l' indicates an interface well.

4.2 Scope of Work

The scope of work completed during this 2022 monitoring event included the collection and chemical analysis of groundwater and leachate from the OM&M monitoring locations, the review and evaluation of the resulting analytical data, and the preparation of this summary. Enviroteknix completed sample collection and Eurofins TestAmerica Laboratories (TAL) preformed the chemical analyses in general accordance with the procedures specified in the SMP. The analytical data was validated by Dataval, a third-party data validation firm.

GPI utilized a database of historical analytical results from the past twenty-one years. It is this database to which this report refers when discussing historical results. GPI will maintain the database by incorporating the results from future quarterly sampling events as they are generated.

The groundwater level within each monitoring well was measured and recorded and the wells were purged to ensure the collection of representative groundwater samples. Field parameters including temperature, pH, Eh, specific conductivity and turbidity were measured during the purging and sampling of the monitoring wells and the collection of the leachate sample. These data are included in the field logs presented in Appendix C.

The samples were placed in pre-cleaned laboratory vessels and transported to TAL under proper chain-of-custody procedures. All OM&M groundwater samples collected during this annual monitoring event were analyzed for Part 363 Baseline Volatile Organic Compounds (VOCs). The Part 360 Program wells, last sampled in May 2021 are sampled biennially and were not sampled during this annual event. The leachate storage tank sample collected during this annual monitoring event was analyzed for Part 363 Expanded Parameters. All analyzed samples were analyzed pursuant to the SMP. For quality assurance/quality control (QA/QC) purposes, field duplicates and trip blanks were collected and analyzed. The blind field duplicate, Dup Y, was collected from MW-165.

A data quality assessment was performed to determine the usability of the analytical results. The data usability review consisted of an evaluation of precision, accuracy, representativeness, data completeness, and comparability. After the data was determined to be usable, the water quality results were evaluated by comparing the data from monitoring points located downgradient from the landfill to that from upgradient monitoring locations, applicable water quality standards and historical sampling results. Following the evaluation of the data, potential causes of any applicable water quality standard exceedances that may have occurred in groundwater were identified and assessed. Potential causes of exceedances could include, but are not limited to, changes in

groundwater flow direction, seasonal fluctuations in the elevation of the groundwater piezometric surface, or new sources of contamination.

4.3 Data Quality Assessment

An assessment of the quality of the analytical data was performed prior to the incorporation of the analytical results into data tables. The data package was reviewed for completeness and consistency with the requirements of the Part 363-4.6(g)(5). Data from sampling locations limited to analysis of Routine Parameters may be internally validated by the laboratory performing the analysis, while analysis for Baseline and Expanded Parameters are required to be validated by a NYSDEC-approved third party.

The internal data validation performed by TAL focused on holding times, calibration criteria, method blanks, reference samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and surrogate recoveries. The results of these efforts are presented in the TAL analytical reports. The QA/QC issues are identified within the "Case Narrative" sections of the TAL analytical reports. Copies of the analytical reports generated for this annual event are included in Appendix D. A review of the Case Narratives indicates that the analytical results generated during this quarterly monitoring event are generally usable in all cases. However, some QA/QC issues were noted and are discussed in the sections below.

In addition to the internal validation performed by TAL, an independent third-party validator (Dataval) reviewed the Baseline data generated for this sampling event. Laboratory data was evaluated according to the QA/QC requirements of the NYSDEC's ASP, the SAP, and the EPA Region II Functional Guidelines. Dataval, a NYSDEC approved validator, satisfied the requirement for 5 percent validation of data by reviewing data calculations in detail for 1 of the 13 (i.e. MW-14S) groundwater samples submitted (including QA/QC samples) and the leachate sample. All available QA/QC information derived from the data validation was then applied to an evaluation of every program sample. The data assessment section of the validation reports prepared by Dataval are summarized in the following subsections and are presented in their entirety in Appendix E.

The independent data assessment included a review of holding times; calibrations; blanks; matrix spikes; matrix spike duplicates; and reported analytes.

The reported data from the group of samples analyzed was found to be complete and well organized and felt to be completely usable in its present form by the validator. Results providing a usable estimation of conditions being measured have been flagged "J" (i.e. estimated) or "UJ" (i.e. estimated below the detection level).

The 'estimated' qualifiers placed on the laboratory results do not preclude the data from being utilized in making an assessment of this event's groundwater quality. Any estimated concentrations outside historical ranges are considered suspect.

The following sections outline the internal and independent validation processes, results and their effects on the usability of the data. The data generated during the 2022 sampling event was assessed in terms of precision, accuracy, representativeness, comparability, and completeness. Neither the internal nor the independent validation identified any analytical or quality issues with the groundwater samples analyzed for Baseline VOCs during this sampling event. Additionally, only minor QA/QC issues which do not impact the usability of the data, were noted for the leachate sample. The validation reports prepared by TAL and Dataval, which are included in Appendices D and E, respectively.

4.3.1. Precision

Precision is a measurement of agreement among individual measurements of the same property under similar conditions. It is expressed in terms of relative percent difference (RPD) between replicates or in terms of the standard deviation. Precision may be affected by the natural variation of the matrix or contamination within that matrix, as well as by errors made in the field and/or laboratory handling procedures. Precision is evaluated using analytical results for field duplicates and/or laboratory matrix spike/matrix spike duplicates (MS/MSDs) and matrix duplicates (MDs), which not only exhibit sampling and analytical precision, but also indicate precision through the reproducibility of the analytical results.

The independent validator indicated that the sulfide spike to the leachate sample (L-1) was completely unrecovered and rejected the reported results. Review of the TAL analytical and independent validation reports indicate that the results are generally precise and only minor QA/QC issues with regard to precision were noted. None of these issues impacted the usability of the data. These issues are presented in the validation reports prepared by TAL and Dataval, which are included in Appendices D and E, respectively.

A comparison of the results from MW-165 with field duplicate Dup Y indicates that the data coincide (i.e. the detected concentrations were within 1.5 times of each other) with the exception of the results for trichloroethene, which were detected in MW-165 at a concentration 1.58 times higher than Dup Y. The detected concentration of trichloroethene in MW-165 was within historical ranges.

4.3.2. Accuracy

Accuracy is defined as the degree of agreement of a measurement (or measurement average) with an accepted reference or true value. It is a measure of system bias and is usually expressed as the difference of measured versus true values or as a percentage of the difference. Sources of error include the sampling process, field contamination, preservation, handling, sample matrix, sample preparation, and analytical techniques. Accuracy is determined on the basis of blank sample analysis (e.g., equipment blanks, trip blanks, etc.) and surrogate recoveries from spiked samples.

The independent validator indicated that the trip blank contained traces of acetone (i.e. 3.6 ug/L) and that a similar concentration was found in MW-145. Additionally, dinbutylphthalate and endrin aldehyde were detected in the method blank associated with the leachate sample (L-1). In all three cases, the validator indicated that the concentrations of these parameters detected in MW-145 and L-1 should be interpreted as undetected and a detection limit equaling the laboratory's reporting limit should be assumed for these monitoring locations.

The independent validator stated: It is noted that the wet chemistry results for alkalinity, TKN and phenolics were provided without the supporting raw data. Instrument response was not provided. This made it impossible to verify the calculations that produced these results. This omission should be considered when reviewing the data. In prior correspondence with the independent validator he indicated that this is not a serious issue as the samples were still associated with good QC results. Additionally, the detected concentrations for these parameters are consistent with historical results.

The independent validator indicated that the presence of benzene and n-nitrosodin-butylamine in the leachate sample (L-1) could not be verified based on the mass spectra references in included in the raw data and that these parameters should be interpreted as undetected and a detection limit equaling the laboratory's reporting limit should be assumed for this monitoring location.

For the remainder of the data, both the internal and independent validation reports indicate that the program data is generally accurate and only minor QA/QC issues with regard to accuracy were noted. None of these issues impacted the usability of the data. These QA/QC issues are presented in the TAL analytical reports and independent validation report included in Appendices D and E, respectively.

4.3.3. Representativeness

This parameter expresses the degree of accuracy and precision of data that represents a characteristic of a population, process condition, a sampling point, or an environmental condition. It is a qualitative parameter that is most dependent on the proper design of the sampling program. The sampling procedures described in the Field Sampling Plan developed for the facility were applied to ensure the collection of representative samples for the media of concern. The samples were collected from similar hydrogeologic units using consistently applied sampling and analytical protocols.

4.3.4. Completeness

Review of the field logs and laboratory results indicates that the data are generally complete. Samples were collected from all eleven OM&M program wells and the leachate

storage tank and were submitted for chemical analysis. The independent validator noted that they could not be determined if custody seals were found on the coolers. Both the field sampling team and laboratory will be notified of this so that cooler custody seals are used and properly documented.

4.3.5. Comparability

This parameter expresses the confidence with which one data set can be compared to another. The objective for comparability is the generation of site characterization data that can be used to make valid comparisons with other data that may be generated in the future at this or other sites. This objective also involves the analysis of the environmental samples collected during the investigation in a manner that produces results comparable to the results that would be obtained by another laboratory using the same analytical procedure. This goal was achieved through the application of standard techniques for sample collection and analysis, and the reporting of data in appropriate units.

Review of the field logs and laboratory results indicates that the sampling protocols utilized during this monitoring event are similar to those used for previous events and that the data is generally comparable to that generated previously.

4.4 Water Quality Assessment

The complete laboratory reports containing the case narratives, analytical results and the quality control sample data are included as Appendix D, while the chain-of custody records are included as Appendix F. Table 1 summarizes the groundwater results and identifies contraventions of the water quality standards in 2022, while Table 2 summarizes the analytical results for leachate. Table 3 summarizes the groundwater elevation measurements. The analytical results are reported in either micrograms per liter (ug/L), which is approximately equivalent to parts per billion (ppb), or milligrams per liter (mg/L), which is approximately equivalent to parts per million (ppm).

The following sections discusses both upgradient and downgradient groundwater quality relative to historical groundwater data and identifies any contraventions of the applicable water quality standards.

The chemistry of leachate generated by the landfill during this monitoring event is summarized in Table 2 and is assessed with respect to historical leachate data.

4.4.1. Groundwater

The analytical results from the two (2) upgradient groundwater monitoring locations sampled during this monitoring event were generally within the historical ranges. The concentrations of the following analytes exceeded the applicable water quality standards in the following monitoring wells:

Field Turbidity in MW-17I

Locations with analytes at concentrations representing historical maximums are denoted above with bold-type text. All parameter concentrations were within the respective historical ranges.

4.4.1.1 Downgradient Monitoring Locations

The analytical results from nine (9) downgradient groundwater monitoring locations sampled during this monitoring event indicate that the parameter concentrations are within the respective historical ranges.

As shown on Table 1, exceedances of the applicable water quality standards for one or more parameters were noted in 6 of the 9 downgradient groundwater sampling locations. The following analytes exceeded the applicable water quality standards:

- Field Turbidity in MW-14S, MW-14I, MW-15S, MW-16I, and MW-22
- Chloroethane in MW-14S, MW-14I, MW-16I, and MW-21
- 1.1-Dichloroethane in MW-16I, and MW-21
- cis-1,2-Dichloroethene in MW-145, MW-141, and MW-21

All parameter concentrations for the downgradient groundwater monitoring locations were within the respective historical ranges for the samples collected in 2022.

Parameter concentrations representing potential trends in the OM&M wells have been evaluated, and particular attention was focused on locations where prior reports stated that the potential for trends would be monitored. Based on this evaluation, several parameter histories in the OM&M wells were graphed and are discussed below. The comparison of Part 360 program wells results was limited to seven events for Baseline Parameters (including VOCs). No trends are apparent in these wells. Based on the limited data and the absence of trends, no graphs were produced for the Part 360 locations.

No historical maximum concertation for cis-1,2-dichloroethene was observed in the OM&M wells during 2022. While the concentrations of cis-1,2-dichloroethene in MW-14I, MW-14S, and MW-21 exceeded the groundwater standards; the concentrations in these locations were within historical ranges. The parameter histories for cis-1,2-dichloroethene in these monitoring wells (as well as MW-16S and MW-16I, which historically demonstrated exceedances) were graphed and are presented in Graphs 1 and 2. The concentration in MW-14I represents the only

location demonstrating an increasing trend for this parameter, though the concentrations have remained generally stable in the last 10 years. In MW-145 and MW-161 the concentrations remain generally stable (i.e. no significant increasing or decreasing). It should be noted that the concentrations of total VOCs continue to decline in these sampling locations. The graphs depict the concentrations of cis-1,2-dichloroethene in MW-165 and MW-21 have been declining and in MW-165 concentrations have been below the water quality standard since 2013. GPI will continue to monitor this parameter for further indications of trends.

No historical maximum concentrations for chloroethane were observed in the OM&M wells in 2022 and in fact that last historical maximum concentration for this parameter that exceeded the water quality standard was recorded in MW-14I during the third quarter 2009. However, this analyte has been historically detected in MW-14I, MW-14S, MW-16I and MW-21 at concentrations exceeding the groundwater standards; therefore, the parameter histories for chloroethane for these monitoring wells are presented in Graph 3. The concentrations of this analyte during 2022 are consistent with historical results with the trend analysis showing concentrations in MW-14I, MW-14S and MW-21 are continuing to decline and the concentrations in MW-16I remain generally stable (i.e. no significant increasing or decreasing). GPI will continue to monitor this parameter for further indications of trends.

The historical results for 1,1-dichloroethane in MW-145, MW-141, MW-165, MW-161, MW-21 and MW-22; 1,1,1-trichloroethane in MW-165, MW-21 and MW-22; trichloroethene in MW-145, MW-141, MW-165 and MW-21; and vinyl chloride in MW-145, MW- 141 and MW- 21 are shown in Graphs 4 through 7, respectively. These analytes and locations were selected because the detected concentrations have historically exceeded the water quality standards at these locations. As depicted on these graphs, the concentrations of these parameters in the aforementioned locations are continuing to decline.

A comparison of the analytical results for the groundwater samples collected from the upgradient sampling locations to the downgradient locations revealed that concentrations in the upgradient sampling locations were lower or undetected when compared to concentrations in the downgradient sampling locations during this annual event. This indicates that downgradient impacts from the unlined portions of the landfill are occurring. GPI will continue to monitor these parameters for indications of any trends.

4.4.2. Leachate

The analytical results for the leachate sample are summarized in Table 3. All parameter concentrations for this annual sampling event were within the respective historical ranges. GPI will continue to monitor for any trends in the leachate chemistry during future sampling events.

4.5 Natural Attenuation Evaluation

The term 'Natural Attenuation' refers to naturally occurring processes in soil and groundwater environments that act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in those media. These in-situ processes include biodegradation, dispersion, dilution, adsorption, volatilization, and chemical or biological stabilization or destruction of contaminants.

The evaluation of natural attenuation included the review of concentrations of VOCs in upgradient and downgradient monitoring wells over the past twenty-one years (including 2022). Specifically, the historical data for chloroethane, 1,1-dichloroethane, cis-1,2-dichloroethene, 1,1,1-trichloroethane, trichloroethene and vinyl chloride were evaluated for trends in the concentrations of these compounds. The review of historical data supports the assertion made in the RI for the Farwell Landfill that natural attention is occurring at the landfill. The review revealed:

- The continued presence of common degradation daughter products in downgradient monitoring wells.
- Despite some minor fluctuations in parameter concentrations, the concentrations
 of these chlorinated solvents in the groundwater hydrogeolocially downgradient
 of the landfill have remained generally consistent or have declined.
- While there were minor increases of total VOCs in monitoring wells MW-14S, MW-15S, MW-21 and MW-22 when compared to the previous year, the historical evaluation of total VOCs within the impacted wells demonstrates a declining trend. The overall combined concentrations of total VOC (i.e. total VOCs from all 8 wells with detections) in the downgradient wells decreased from last year. GPI will continue to evaluate total VOC concentration trends in the downgradient monitoring wells.
- With exception to chloroethane in MW-16I (which has remained generally stable) and cis-1,2-dichloroethene in MW-14S & MW-16I (both of which have remained generally stable) and MW-14I (showing an increasing trend) the concentrations of these six parameters are declining in the wells that they have been detected in.
- The VOC plume appears to be static.

Lastly, one of the objectives of the natural attenuation evaluation is to define and track the VOC plume in groundwater downgradient of the landfill to ensure that the plume is not migrating off County owned property. This task was completed by comparing the groundwater contour map,

generated utilizing the groundwater elevation data recorded from the shallow monitoring wells during the annual monitoring event, which indicates a south/southeast flow to the total VOC concentrations recorded in each well since 2002. Total VOC graphs were generated and evaluated for MW-14I, MW-14S, MW-15I, MW-15S, MW-16I, MW-16S, MW-19, MW-20, MW-21 and MW-22. Graphs depicting the total VOC concentrations over this time period for the downgradient monitoring wells are included in Appendix G. This evaluation indicates that the VOC plume is generally static and that the plume is not significantly migrating. Despite some minor fluctuations in parameter concentrations, as demonstrated by these graphs total VOC concentrations in the groundwater downgradient of the landfill have generally been declining. The highest concentrations of VOCs continue to be detected in OM&M monitoring wells MW-14S, MW-14I and MW-21. Based on the reduction in total VOC concentrations over time and the absence of anthropogenic influences on the demonstrated attenuation, the reduction is most likely attributable to natural forces. Also, given the significantly lower concentrations of VOCs in MW-22 (compared to MW-21) and the absence of elevated chlorinated solvents in the sample collected from MW-23 diffusion of the chlorinated solvents appears to be occurring.

4.6 <u>Environmental Monitoring Plan Deficiencies</u>

No deficiencies were noted for the Environmental Monitoring Plan during the 2022 reporting period.

4.7 <u>Environmental Monitoring Conclusions</u>

A limited number of parameter concentrations were noted during the 2022 annual monitoring event relative to the concentrations observed historically. However, concentrations of most parameters were within historical ranges. The analytical results for the groundwater samples collected from the upgradient sampling locations were generally lower than the results from downgradient locations during 2022, indicating downgradient impacts from the unlined portions of the landfill. A number of analytes, primarily VOCs, were detected at concentrations exceeding the water quality standards in downgradient monitoring locations. The concentrations of total VOCs within each of the impacted wells have declined over the past 21 years and the overall combined concentrations of total VOC (i.e. total VOCs from all 8 wells with detections) in the downgradient wells decreased from last year.

4.8 Future Environmental Monitoring Activities

The next environmental monitoring event is scheduled to be completed in May 2023. This event will consist of the sampling and analysis of groundwater and leachate samples as outlined in NYSDEC's September 14, 2020 approval letter and will be conducted in general accordance with the procedures specified in the SMP. Groundwater samples collected from OM&M wells will be analyzed for Part 363 Baseline VOCs and field parameters. The Part 360 Program wells will be sampled for a modified Baseline analytical list including the leachate indicators (alkalinity, ammonia, biological oxygen demand, boron, bromide, chloride, chemical oxygen demand, color,

hardness, nitrate, phenols, sulfate, total dissolved solids, total Kjeldahl (TKN) nitrogen, and total organic carbon) and VOCs. The leachate storage tank sample will be analyzed for Part 363 Baseline Parameters. The data validation for this sampling event will be conducted in accordance with ASP Category B.

5.0 OPERATION AND MAINTENANCE

5.1 Overview

As part of the selected remedy the County implemented a formal landfill inspection and maintenance program. As detailed in the SMP monthly inspections are required April through November. These monthly inspections are performed by Cattaraugus County DPW staff and are documented on the Post-Closure Inspection Forms. On-site inspections were performed April through December 2022. Copies of the monthly inspection forms for the 2022 reporting period are included in Appendix H.

The monthly inspections are performed to evaluate onsite drainage, the condition of the landfill cover, access control features and the monitoring wells and gas vents. A summary of the evaluation requirements followed by the 2022 inspection results is presented in the paragraphs below.

5.2 <u>Summary and Evaluation of 2022 Site-Wide Monthly Inspections</u>

Existing drainage features are to be checked for failure or obstructions, signs of erosion and/or areas of ponded water. Additionally, inspection of the drainage system is to be conducted following the occurrence of severe storms (greater than 1 inch per hour). Based on historical weather data from Weather Underground a nearby weather station measured three severe storms event between April and November of 2022. Taking place April 26, July 2, and November 12, 2022, the correlating monthly inspections did not indicate any issues following the occurrence of these severe storms.

The review of the landfill cover includes an evaluation for visible signs of refuse, vector activity, erosion, stressed vegetation, leachate seeps and areas of settling. In April through December monthly inspection an approximately 4-ft x 10-ft area of stressed vegetation/leachate seep was identified at the toe of slope in the southwest corner of Phase II portions of the landfill or approximately 300-ft north of the northwest corner of the parking lot. The County has engaged the services of a consultant who is evaluating enhancements to the existing cap to reduce leachate generation on-site. Repairs to address this seep will be addressed in conjunction with any cap enhancements. The County intends on making repairs to this seep in 2024 following consultation with NYSDEC. During the April through October inspections vector activity consisted of evidence of groundhogs and deer; flies were noted around several of the vents in August, September and

October and deer only in December. Odors were also detected emanating from several of the vents throughout the year.

Access control is to be maintained such that unauthorized entrance to the facility is prevented. During the remedial actions conducted in the early 2000s a multi-floral rose shrubbery was planted around the landfill perimeter. This plant is shallow rooted, hardy and spiny and forms a dense hedge wall thereby restricting access. The inspections in 2022 evaluated the gates and locks, access road conditions and access restriction features (i.e. the shrubbery). These inspections noted the access control features to be in good condition and did not note any issues impacting the established access control features.

The gas venting system is to be inspected for plugging and damage of the vent risers and return bends. Additionally, areas where there are cracks in the soil cover or where vegetation appears to be stressed are to be tested with a portable explosive gas detector. During the 2022 monthly inspections the vent screens were noted to be in place and a crack in the elbow was noted for vent No. 10. This vent was noted as being repaired during the October inspection. No damage to any of the other vent risers and/or return bends was observed.

The groundwater monitoring wells are to be inspected to ensure that the locks, risers and caps are in good condition and that there is no evidence of tampering. No issues were identified with the monitoring wells.

Based on the review of the monthly inspection forms and interviews with County personnel, the Operation and Maintenance requirements are being conducted in accordance with the SMP.

5.3 <u>Use Restrictions</u>

The northern portion of the Site (approximately 16-acres) is currently occupied by the closed landfill, while the remainder of the site is comprised of forested land and old unutilized farm fields. Other than two County owned buildings used for storage and recyclables storage, no development or other non-solid waste uses are conducted on the Site; therefore, the Site is in compliance with the use restriction requirements of the Deed Restrictions. Also, while there is a water supply well on Site, access to water is limited to a faucet (which is not used) and a toilet within the on-site storage building. This building is kept locked and only County employees have access. Additionally, a warning sign is posted above the faucet which indicates that the water is unsuitable for drinking. Therefore, with the exception of flushing the toilet no groundwater use occurs on-site and as such meets the groundwater use restrictions.

5.4 <u>Leachate Collection System</u>

The leachate collection system installed during the closure operations conducted in the late 1980s continues to operate. Leachate from the landfill is collected and combined in two 10,000-gallon underground storage tanks located south of the landfill, near the storage garage. The elevation of

the leachate collection line near the storage tanks is 1538.0°. The stored leachate is pumped from the USTs an average of fourteen times a month. The total leachate generated for the reporting period was 1,328,500 gallons, with 52,500 gallons delivered to the Salamanca Waste Water Treatment Plant, 15,000 gallons going to the Jamestown Waste Water Treatment Plant, and 1,261,000 gallons going to the Olean Waste Water Treatment Plant. Tables summarizing the monthly leachate hauling quantities are included in Appendix I.

5.5 O&M Deficiencies

An O&M deficiency was noted with regard to the cover system. In April through December monthly inspection an approximately 4-ft x 10-ft area of stressed vegetation/leachate seep was identified at the toe of slope in the southwest corner of Phase II portions of the landfill or approximately 300-ft north of the northwest corner of the parking lot. The County has engaged the services of a consultant who is evaluating enhancements to the existing cap to reduce leachate generation on-site. Repairs to address this seep will be addressed in conjunction with any cap enhancements. The County intends on making repairs to this seep in 2024 following consultation with NYSDEC.

During the process of updating the leachate hauling protocols the County examined historical leachate data and they identified an instance in late November 2022 where they could not account for approximately 400 gallons of leachate. The drivers who hauled during this event did not report any observations that indicated a leachate spill; nonetheless their data suggested the amount of leachate in the tanks may have exceeded the capacity by about 400 gallons amount. In order to provide an even greater buffer for their leachate hauling operations, the County recently updated these procedures. A copy of the updated procedures is included in Appendix J.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Site is in compliance with the SMP and Deed Restrictions, therefore, no changes to the periodic review reporting are recommended. Additionally, while still currently under review by the NYSDEC the November 2020 SMP was utilized at the guiding document summarizing the controls implemented for the Site, as well as the inspections, monitoring, maintenance and reporting activities required.

7.0 LIMITATIONS

The conclusions presented in this report are based on information gathered in accordance generally accepted professional consulting principles and practices. All conclusions reflect observable conditions existing at the time of the site inspection. Information provided by outside sources (individuals, agencies, laboratories, etc.), as cited herein, was used in the evaluation of the Site. The accuracy of the conclusions drawn from this Periodic Review is, therefore, dependent upon the accuracy of information provided by these sources. Furthermore, GPI is not responsible

for the impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services.

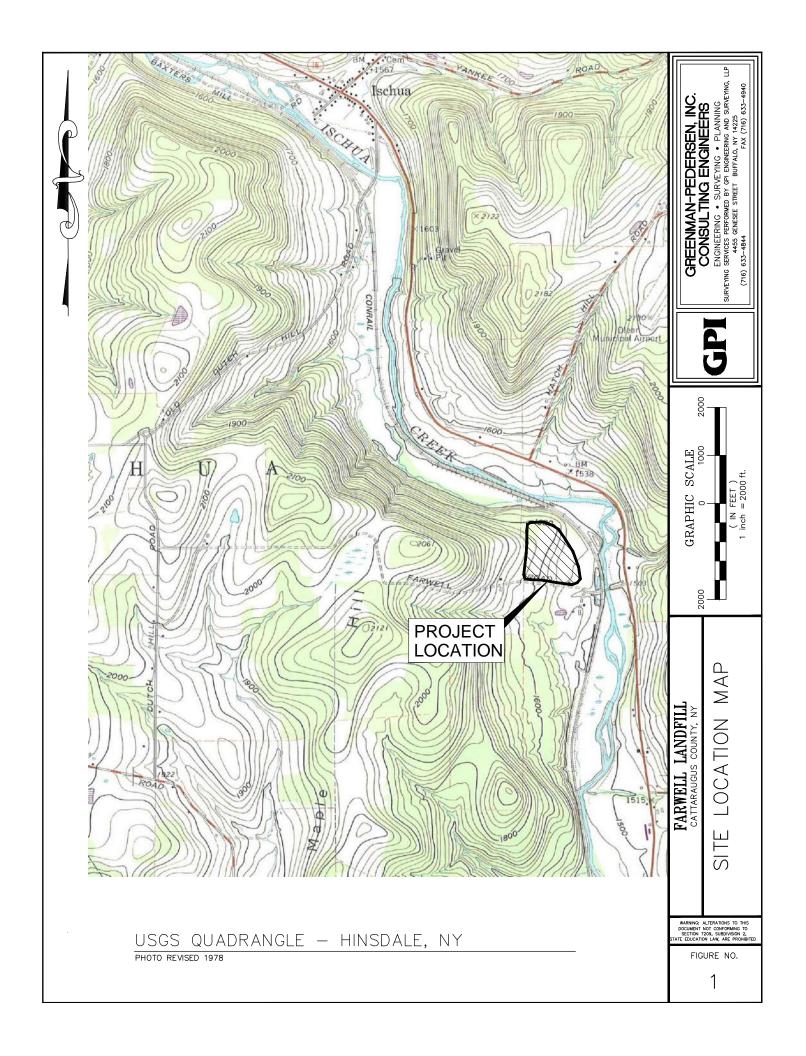
This Periodic Review Report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based upon the facts currently available within the limits of the existing data, scope of services, budget, and schedule. To the extent that more definitive conclusions are desired by the Client than are warranted by the current available facts, it is specifically GPI's intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action except where explicitly stated as such. GPI makes no warranties, expressed or implied including without limitation, warranties as to merchantability or fitness of a particular purpose. Furthermore, the information provided in this report is not to be construed as legal advice.

This Periodic Review Report has been completed and prepared on behalf of and for the exclusive use of the Cattaraugus County Department of Public Works. Any reliance on this report by a third party is at such party's sole risk. Furthermore, nothing contained in this report shall be construed as a warranty or affirmation by GPI that the Site described in this report is suitable collateral for any loan or that acquisition of such property by any lender through foreclosure proceedings or otherwise will pose no risk of potential environmental liability on the part of such lender.

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FIGURES





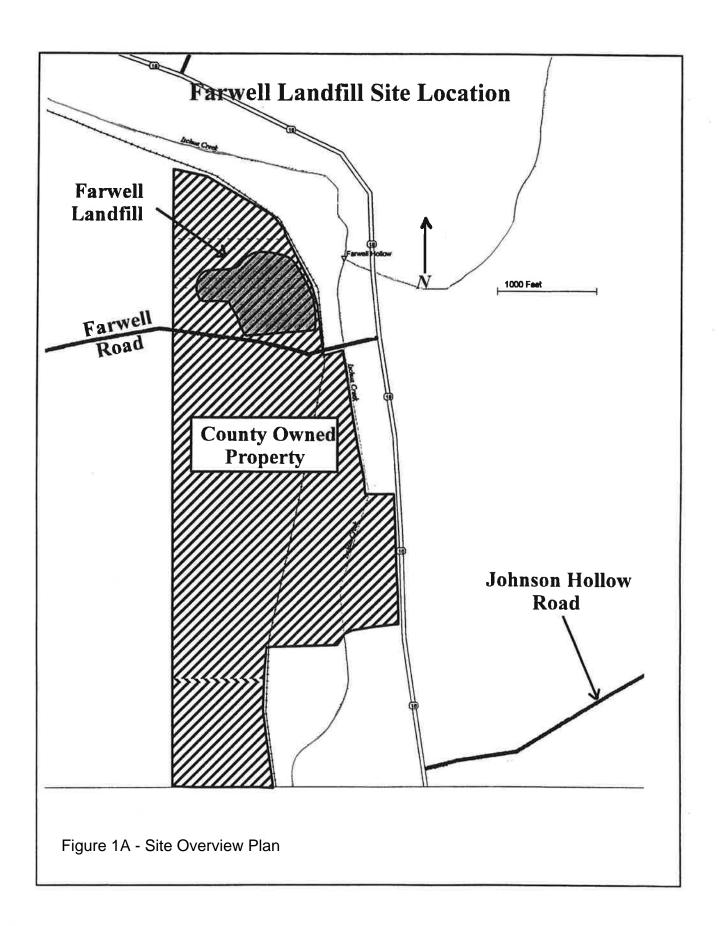


Figure 1B - Tax Map Parcel 68.003-1-1

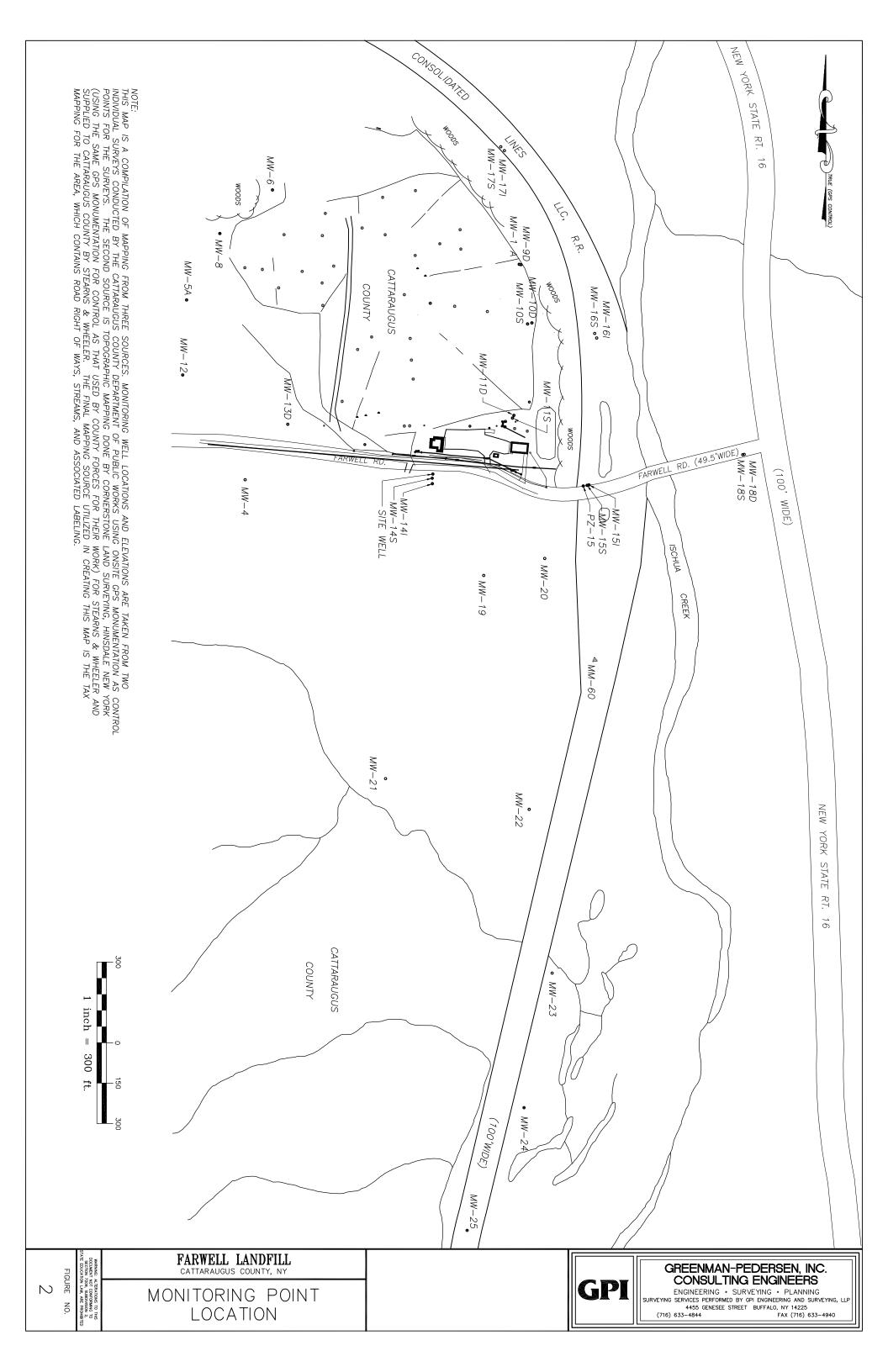


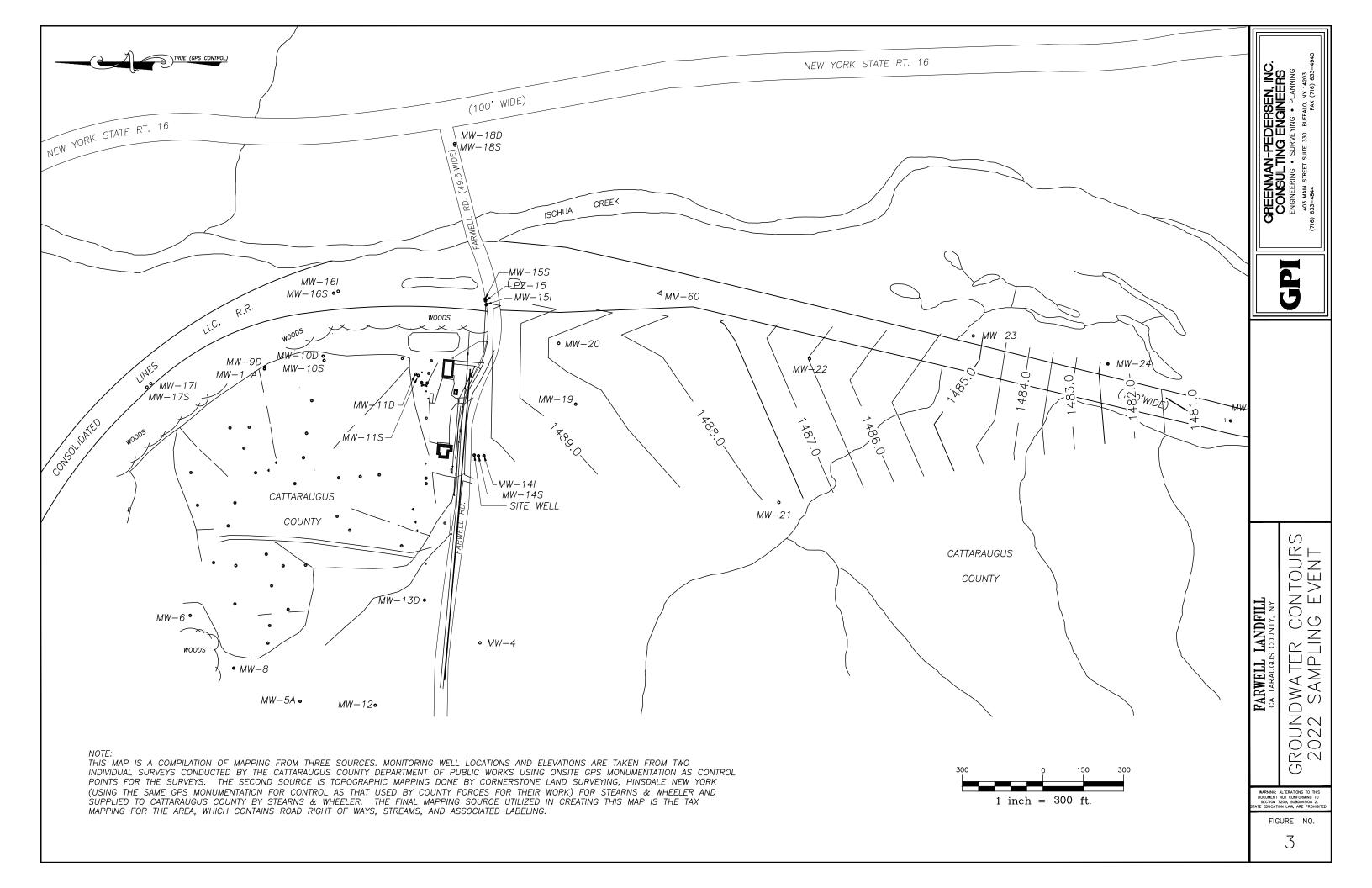
Mon Jun 2 2014 11:11:42 AM.

Figure 1C - Tax Map Parcel 68.001-1-18



Mon Jun 2 2014 11:18:18 AM.





TABLES





Farwell Landfill Annual 2022 **Groundwater Analysis Summary**

TABLE 1

DOWN - GRADIE	NT MONITORI	ING LOCATIONS																						1	CROSS/UP-	GRADIENT M	ON. LOCATIO	ONS
	1 1	MW	MW	M	w	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	Т	MW	MW	MW	REGULATORY-	1	MW	MW	MW	MW
	Units	145	141	15	55	151	165	161	19	20	21	22	23	24	25	95	9D	105		10D	115	11D	VALUE Units		171	175	6	13D
Field Eh	mV	0 122	0 142	0 11	6 0	118 (0 117	0 118	0 0	0 0	0 113	0 85 0	79 (0 0	0	0 0	0 0	0 0	0	0 0	0	0 0	NA mV	Field Eh	0 113	0 122	0 0	0 0
Field pH	SU	0 7.65	0 7.93	0 8.0	-+	7.91	0 7.69	0 7.85	0 0.00	0 0.00	0 7.77	0 6.93 0	6.85	0.00	0.00	0 0.00	0 0	0 0.00	0	0.00 0	0.00	0 0.00	6.5-8.5 SU	Field pH	0 7.45	0 7.35	0 0.00	
Field Specific Conductivity	umhos/cm	0 963	0 1127	0 53		468 (0 698	0 501	0 0	0 0	0 998	0 248 0	160	0.00	0.00	0 0	0 0	0 0	0	0 0	0	0 0	NA umhos/cm	Field Specific Conductivity	0 314	0 433	0 0	0 0
	NTU		_			2.70	+				0 1.30		_	0.00		0 0.00	0 0.00		0	0.00 0		0 0.00		-	\vdash	-	0 0.00	
Field Turbidity	-	0 57.40	0 6.30				0 4.90	0 5.80				0 5.50 0	1.00		0.00			0 0.00	+-		0.00	_	5 NTU	Field Turbidity	0 6.00	0 3.90		
Temperature	degC	0 7.80	0 7.20		-	3.30	0 3.90	0 2.20				0 2.20 0	1.10	0.00 0		0 0.00	0 0.00	0 0.00	+-		0.00	0 0.00	NA degC	Temperature	0 4.40	0 3.30	0 0.00	
BOD6	mg/l	0 0.00	0.00	0 0.0	-+	0.00	0.00	0.00	++-	+ +	+	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	+		0.00	0 0.00	NA mg/l	BOD5	0 0.00	0.00	0 0.00	
Color	Units	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	0	0.00 0	0.00	0 0.00	NA Units	Color	0 0.00	0.00	0 0.00	0 0.00
Hexavalent Chromium	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0.000	0 0.000	0	0.000 0	0.000	0.000	0.05 mg/l	Hexavalent Chromium	0 0.00	0.00	0 0.000	0 0.000
Nitrate-Nitrogen	mg/l	0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0.00	0 0.00	0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0.000	0 0.000	0	0.000 0	0.000	0.000	10 mg/l	Nitrate-Nitrogen	0 0.00	0.00	0.000	0.000
Alkalinity	mg/l CaCO3	0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0	0 0	0	0 0	0	0 0	NA mg/l CaCO3	Alkalinity	0 0	0 0	0 0	0 0
Chloride	mg/l	0.00	0.00	0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0.00	0 0.00 0	0.00	0.00	0.00	0.00	0 0.00	0 0.00	0	0.00 0	0.00	0.00	250 mg/l	Chloride	0 0.00	0.00	0.00	0 0.00
COD	mg/l	0 0.00	0.00	0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0.00	0 0.00	0	0.00	0.00	0.00	NA mg/l	COD	0 0.00	0.00	0.00	0 0.00
Ammonia-Nitrogen	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	0	0.00 0	0.000	0 0.00	2 mg/l	Ammonia-Nitrogen	0 0.00	0.00	0.00	0 0.00
Sulfate	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0	0.00 0	0.00	0 0.00	250 mg/l	Sulfate	0 0.00	0 0.00	0 0.00	0 0.00
	mg/l	0 0.00	0 0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.000	0 0.000	0	0.000 0	0.000	0 0.000	0.2 mg/l	1	0 0.00	0 0.00	0 0.000	0 0.000
Total Cyanide	mg/l	0 0.00	0 0.00	0 0.0		0.00	0.00	0 0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00	0.00	0 0.00	0 0	0 0	0	0 0	0	0 0	500 mg/l	Total Cyanide	0 0	0 0	0 0	0 0
Total Dissolved Solids	mg/l	0 0.00	0 0.00	0 0.0	-++	0.00	0.00	0 0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0	0.00 0	0.00	0 0.00	NA mg/l	Total Dissolved Solids	0 0.00	0 0.00	0 0.00	0 0.00
Total Kjeldahl Nitrogen	mg/l	0 0.00	0 0.00	0 0.0	-++	0.00	0.00	0 0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	++-		0.00	0 0.00	NA mg/l	Total Kjeldahl Nitrogen	0 0.00	0 0.00	0 0.00	
TOC	_		_	_	-			_		++-					+ +				+-			_		TOC	-			
Total PhenoIs	mg/l	0 0.00	0.00	0 0.0	-	0.00	0.00	0.00		++-	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.0000	0 0.0000			0.0000	0 0.0000	0.001 mg/l	Total Phenols	0 0.00	0 0.00	0 0.0000	
Aluminum	mg/l	0 0.00	0.00	0 0.0		0.00	0.00	0 0.00		++-	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	++-		0.00	0 0.00	NA mg/l	Aluminum	0 0.00	0.00	0 0.0000	
Antimony by furnace method	mg/l	0 0.00	0.00	0 0.0		0.00	0.00		0 0.00		0 0.00	0 0.00 0	0.00	0.00 0		0 0.00	0 0.00000	0 0.00000	+-		0.00000	0.00000	0.003 mg/l	Antimony by furnace method	0 0.00	0.00	0 0.0000	
Arsenic by furnace method	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0.00000	0 0.0000	0 (0.0000 0	0.0000	0.00000	0.025 mg/l	Arsenic by furnace method	0 0.00	0.00	0.0000	0 0.0000
Barium	mg/l	0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0.00	0 0.00	0	0.00 0	0.00	0.00	1 mg/l	Barium	0 0.00	0.00	0.00	0 0.00
Beryllium	mg/l	0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0.00	0 0.00	0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0.0000	0 0.0000	0 (0.0000 0	0.0000	0.0000	0.003 mg/l	Beryllium	0 0.00	0.00	0.0000	0.000
Boron	mg/l	0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0.00	0 0.00 0	0.00	0.00	0.00	0.00	0.000	0 0.000	0	0.000 0	0.000	0.000	1 mg/l	Boron	0 0.00	0.00	0.00	0.000
Cadmium	mg/l	0.00	0.00	0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0.000	0 0.000	0	0.000 0	0.000	0.000	0.005 mg/l	Cadmium	0 0.00	0.00	0.0000	0.000
Calcium	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0	0 0	0	0 0	0	0 0	NA mg/l	Calcium	0.00	0.00	0.00	0 0
Chromium	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.000	0 0.000	0	0.000 0	0.000	0 0.000	0.05 mg/l	Chromium	0 0.00	0.00	0 0.000	0 0.000
Cobalt	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00000	0 0.00000	0 0	0.00000 0	0.00000	0 0.00000	NA mg/l	Cobalt	0 0.00	0.00	0 0.0000	00 0 0.0000
	mg/l	0 0.00	0 0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.0000	0 0.0000	0 (0.0000 0	0.0000	0 0.0000	0.2 mg/l	1	0 0.00	0 0.00	0 0.0000	0 0 0.000
Copper	mg/l	0 0.00	0 0.00	0 0.0	-++	0.00	0 0.00	0 0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	++-		0.00	0 0.00	0.3 mg/l	Copper	0 0.00	0 0.00	0 0.00	
Iron	ma/l	0 0.00	0 0.00	0 0.0		0.00	0.00	0 0.00		++-	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00000	0 0.00000	++-		0.00000	0 0.00000	0.025 mg/l	Iron	0 0.00	0 0.00	0 0.0000	
Lead by furnace method	mg/l		+		-+-	_		-	+++	++-	++	+ + - +	0.00	+	+		 	 	+			-		Lead by furnace method	++-+			
Magnesium	mg/l	0 0.00	0.00	0 0.0	-+-	0.00	0.00	0 0.00	+++	++	0 0.00	0 0.00 0		0.00 0	0.00	0 0.00	0 0.00	0 0.00	++		0.00	0 0.00	35 mg/l	Magnesium	0 0.00	0 0.00	0 0.00	
Manganese	mg/I	0.00	0.00	0 0.0	-+-	0.00	0.00	0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	+		0.00	0.00	0.3 mg/l	Manganese	0 0.00	0.00	0 0.00	
Mercury	mg/l	0 0.00	0.00	0 0.0	-++	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00000	0 0.00000			0.00000	0 0.00000	0.0007 mg/l	Mercury	0 0.00	0.00	0 0.0000	
Nickel	mg/l	0 0.00	0.00	0 0.0	-	0.00	0.00	0 0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.0000	0 0.0000	+		0.0000	0 0.0000	0.1 mg/l	Nickel	0 0.00	0 0.00	0 0.0000	
Potassium	mg/l	0 0.00	0.00	0 0.0		0.00	0.00	_	0 0.00	1-1			0.00	0.00 0		0.00	0 0.00	0 0.00	0		0.00	0 0.00	NA mg/l	Potassium	0 0.00	0.00	0 0.00	
Selenium by furnace method	mg/l	0.00	0.00	0 0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0 0.00000	0 0.00000	0 0	0.00000	0.00000	0 0.00000	0.01 mg/l	Selenium by furnace method	0 0.00	0.00	0.0000	00 0.0000
Silver	mg/l	0.00	0.00	0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0.00	0.0000	0 0.0000	0 (0.0000 0	0.0000	0.0000	0.05 mg/l	Silver	0 0.00	0.00	0.0000	0 0.000
Sodium	mg/l	0 0.00	0.00	0.0	00 0	0.00	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.00	0 0.00	0	0.00 0	0.00	0 0.00	20 mg/l	Sodium	0 0.00	0 0.00	0.00	0 0.00
Thallium by furnace method	mg/l	0 0.00	0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.000000	0 0.000000	0 0.	0.000000 0	.000000	0 0.000000	0.0005 mg/l	Thallium by furnace method	0 0.00	0 0.00	0 0.00000	00 0 0.0000
Vanadium	mg/l	0 0.00	0 0.00	0 0.0	00 0	0.00	0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.0000	0 0.0000	0 (0.0000 0	0.0000	0 0.0000	NA mg/l	Vanadium	0 0.00	0 0.00	0 0.0000	0 0.000
	mg/l	0 0.00	0 0.00	0 0.0		0.00	0 0.00	0 0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0.0000	0 0.0000			0.0000	0 0.0000	2 mg/l	7ine	0 0.00	0 0.00	0 0.0000	
Zinc	mg/l CaCO3	0 0.00	0 0.00	0 0.0		0.00	0.00	0 0.00		0 0.00	0 0.00	0 0.00 0	0.00	0.00 0	0.00	0 0.00	0 0	0 0	0	0 0	0	0 0	NA mg/l CaCO3	ZIIIC	0 0.00	0 0.00	0 0.00	
Calculated Hardness	mg/l	0 0.00	0 0.00	0 0.0	-	0.00	0.00	0 0.00		++-	0 0.00	0 0.00 0	0.00	0 0.00 0	+	0 0.00	0 0.000	0 0.000	0	0.000 0	0.000	0 0.000	2 mg/l	Calculated Hardness		0 0.00	0 0.00	
Bromide b Analyte in blank, possible/pr			Detected a				Result is unde			estimated		imated below the CRD		0.00	0.00	0.00	0.000	Result rejected by			5.000	0.000		Bromide	0.00	5 5.00	5 0.00	0.000
					ury unditiOf1	u			,		•	hod detection limits	·L										1.00 Value exceeds re	guiatory standard				
< In the lefthand column indica	atec the value icl	ess than the methor	nd detection li	mit				o mme	icitiianu column	muncies the Va	nac is wittill inet	nou detection minis				() In the righ	at hand column indi	ictes the parameter w	iac not ana	alvzed								

< In the lefthand column indicates the value is less than the method detection limit Note: Reulatory values were derived from NYSDEC TOGS 1.1.1 (1998) and Part 703.3

⁰ In the lefthand column indictes the value is within method detection limits

⁰ In the right hand column indictes the parameter was not analyzed



Farwell Landfill Annual 2022 Groundwater Analysis Summary

TABLE 1 (CON'T)

DOWN - GRADIENT MON, LOCATIONS CROSS/UP-GRADIENT MON, LOCATIONS																																
DOWN - GRADI	ENT MONITO	RING LOCAT	ONS								_				1	_				<u> </u>			ı			T T	<u>I</u>	CROSS/UF	-GRADIENT	MON. LOCAT	TIONS	
		MW	MV	V	MW	MW	MW	′	MW	MX	MW	MW	MW	MW	MW		MW	MW	MW		MW	MW	Λ	1W	MW	REGULATORY-		MW	MW	M'	MW	MW
	Units	145	14	ı	15\$	151	165		161	19	20	21	22	23	24		25	9\$	9D		105	10D	1	15	11D	VALUE Units		171	175	- 6	6	13D
Acetone	ug/l	< 10.00	ou < 3.0	0 <	3.00	< 3.00	< 3.00) <	3.00	0.00	0 0.00	< 3.00	< 3.00	< 3.00	0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	50 ug/l	Acetone	< 3.00	< 3.00	0 0.0	0.00	0.00
Acrylonitrile	ug/l	< 0.83	< 0.8	3 <	0.83	< 0.83	< 0.83	3 <	0.83	0.00	0 0.00	< 0.83	< 0.83	< 0.83	0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	5 ug/l	Acrylonitrile	< 0.83	< 0.83	0.0	0.00	0.00
Benzene	ug/l	< 0.41	< 1.0	0 <	0.41	< 0.41	< 0.41	<	0.41	0.00	0 0.00	< 0.41	< 0.41	< 0.41	0 0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	1 ug/l	Benzene	< 0.41	< 0.41	0 0.0	0.00	0.00
Bromochloromethane	ug/l	< 0.87	< 0.8	7 <	0.87	< 0.87	< 0.87	7 <	0.87	0.00	0 0.00	< 0.87	< 0.87	< 0.87	0 0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	5 ug/l	Bromochloromethane	< 0.87	< 0.87	0 0.0	0.00	0.00
Bromodichloromethane	ug/l	< 0.39	< 0.3	9 <	0.39	< 0.39	< 0.39	<	0.39	0.00	0 0.00	< 0.39	< 0.39	< 0.39	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0.00	0 0	.00	0 0.00	50 ug/l	Bromodichloromethane	< 0.39	< 0.39	0 0./	0.00	0.00
Bromoform	ug/l	< 0.26	< 0.2	6 <	0.26	< 0.26	< 0.26	S	0.26	0 0.00	0 0.00	< 0.26	< 0.26	< 0.26	0 0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	50 ug/l	Bromoform	< 0.26	< 0.26	0 0.0	0.00	0.00
Carbon Disulfide	ug/l	< 0.19	< 0.1	9 <	0.19	< 0.19	< 0.19) <	0.19	0 0.00	0 0.00	< 0.19	< 0.19	< 0.19	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0.00	0 0	.00	0 0.00	60 ug/l	Carbon Disulfide	< 0.19	< 0.19	0 0.0	0.00	0.00
Carbon Tetrachloride	ug/l	< 0.27	< 0.2	7 <	0.27	< 0.27	< 0.27	7 <	0.27	0 0.00	0 0.00	< 0.27	< 0.27	< 0.27	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0 0.00	0 0	.00	0 0.00	5 ug/l	Carbon Tetrachloride	< 0.27	< 0.27	0 0.	0.00	0.00
Chlorobenzene	ug/l	< 0.75	< 0.7	5 <	0.75	< 0.75	< 0.75	5 <	0.75	0 0.00	0 0.00	< 0.75	< 0.75	< 0.75	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0 0.00	0 0	.00	0 0.00	5 ug/l	Chlorobenzene	< 0.75	< 0.75	0 0.	0.00	0.00
Chloroethane	ug/l	0 13.00	0 19	<	0.32	0 0.43	< 0.32	2 0	11.00	0 0.00	0 0.00	0 9.00	< 0.32	< 0.32	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0 0.00	0 0	.00	0 0.00	5 ug/l	Chloroethane	< 0.32	< 0.32	0 0.	0.00 0	0.00
Chloroform	ug/l	< 0.34			0.34	< 0.34	< 0.34	_ 	0.34	0 0.00	++	< 0.34	< 0.34	< 0.34	0 0.00	++	0.00 0	0.00	0 0.00		0.00	0 0.00	-	.00	0 0.00	7 ug/l	Chloroform	< 0.34	< 0.34	+	0.00 0	0.00
Dibromochloromethane	ug/l	< 0.32		-	0.32	< 0.32	+		0.32	0 0.00		< 0.32	< 0.32	< 0.32	0 0.00	++	0.00 0	0.00	0 0.00		0.00	0 0.00		.00	0 0.00	50 ug/l	Dibromochloromethane	< 0.32	< 0.32	+	0.00	0.00
1,2-Dibromo-3-chloropropane	ug/1	< 0.39		-	0.39	< 0.39	< 0.39		0.39	0 0.00	++	< 0.39	< 0.39	< 0.32	0 0.00	++	0.00 0	0.00	0 0.00		0.00	0 0.00	-	.00	0 0.00	0.04 ug/l	1,2-Dibromo-3-chloropropane	< 0.39	< 0.32	+	0.00	0.00
	ug/I	< 0.73			0.73	< 0.73	< 0.73		0.73	0 0.00		< 0.73	< 0.73	< 0.73	0 0.00	++	0.00 0	0.00	0 0.00	+	0.00	0 0.00		.00	0 0.00	-	1,2-Dibromoethane	< 0.73	< 0.73	+ + -	0.00	0.00
1,2-Dibromoethane	ug/1	+			-	-	+		-	-	++	 	+	-	 	++		+	_	+	-	_	 		-	5 ug/l	4	-	-	+		-
1,2-Dichlorobenzene 1,3-Dichlorobenzene	ug/I	0 0.00	+	_	0.79	< 0.79 0 0.00	0 0.00	-	0.79	0 0.00	0 0.00	0.79	0.79	0.79	0 0.00	+	0.00 0	0.00	0 0.00		0.00	0 0.00	 	.00	0 0.00	5 ug/l 5 ug/l	1,2-Dichlorobenzene	0.79	0.79		0.00	0.00
1,4-Dichlorobenzene	ug/I	< 0.84		_	0.84	< 0.84	< 0.84	-	0.84	0 0.00	0 0.00	< 0.84	< 0.84	< 0.84	0 0.00		0.00 0	0.00	0 0.00	+	0.00	0 0.00	 - - - 	.00	0 0.00	5 ug/l	1,4-Dichlorobenzene	< 0.84	< 0.84		0.00	0.00
trans-1,4-Dichloro-2-butene	ug/l	< 0.22 U		_	0.22 ui ·	< 0.22 ui	++-		0.22 ui	0 0.00	++-	< 0.22 ui	< 0.22 ui	< 0.22 ui	0 0.00	+ +	0.00 0	0.00	0 0.00	+	0.00	0 0.00	 	.00	0 0.00	5 ug/l	trans-1,4-Dichloro-2-butene	< 0.22 ui	< 0.22 ui		0.00 0	0.00
1,1-Dichloroethane	ug/l	0 0.91			1.20	0 1.50	0 4.70	,	11.00	0 0.00	++	0 27.00	0 2.70	< 0.38	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00	5 ug/l	1,1-Dichloroethane	< 0.38	< 0.38	+	0.00	0.00
1,2-Dichloroethane	ug/l	< 0.21	++-		0.21	< 0.21	< 0.21	_ 	0.21	0 0.00	++	< 0.21	< 0.21	< 0.30	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00	0.6 ug/l	1,2-Dichloroethane	< 0.21	< 0.30	+	0.00	0.00
1,1-Dichloroethene	ug/I	< 0.21			0.29	< 0.21	< 0.29		0.21	0 0.00	++	< 0.29	< 0.21	< 0.21	0 0.00	+	0.00 0	0.00	0 0.00		0.00	0 0.00	-	.00	0 0.00	5 ug/l	1,1-Dichloroethene	< 0.29	< 0.21	+	0.00	0.00
	ug/I	0 7.80		_	0.81	< 0.29	0 1.20		4.60	0 0.00	++	0 49.00	< 0.29	< 0.29	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00		cis-1,2-Dichloroethane	< 0.81	< 0.23	+	0.00	0.00
cis-1,2-Dichloroethene	ug/I	_			-	-	++-				++		+ +	-		+		+	_	+		-	-		-	5 ug/l	1	+-	-	+ + -		+
trans-1,2-Dichloroethene	ug/i	< 0.90	++-	-	0.90	< 0.90	< 0.90		0.90	0 0.00	++	< 0.90	< 0.90	< 0.90	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	 	.00	0.00	5 ug/l	trans-1,2-Dichloroethane	< 0.90	< 0.90	+	0.00	0.00
1,2-Dichloropropane	ug/I	< 0.72	++-	-	0.72	< 0.72	< 0.72		0.72	0 0.00	0 0.00	< 0.72	< 0.72	< 0.72	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	 	.00	0 0.00	1 ug/l	1,2-Dichloropropane	< 0.72	< 0.72	+	0.00	0.00
cis-1,3-Dichloropropene	ug/l	< 0.36	++-	-	0.36	< 0.36	< 0.36		0.36	0 0.00	++	< 0.36	< 0.36	< 0.36	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00	0.4 ug/l	cis-1,3-Dichloropropene	< 0.36	< 0.36	+	0.00	0.00
trans-1,3-Dichloropropene	ug/l	< 0.37	++-	-	0.37	< 0.37	< 0.37		0.37	0 0.00	++	< 0.37	< 0.37	< 0.37	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	 	.00	0 0.00	0.4 ug/l	trans-1,3-Dichloropropene	< 0.37	< 0.37	+ + -	0.00	0.00
Ethylbenzene	ug/l	< 0.74			0.74	< 0.74	< 0.74		0.74	0 0.00		< 0.74	< 0.74	< 0.74	0 0.00	+	0.00 0	0.00	0 0.00		0.00	0 0.00	-	.00	0 0.00	5 ug/l	Ethylbenzene	< 0.74	< 0.74	+	0.00	0.00
2-Hexanone	ug/l	< 1.20	< 1.20	0 <	1.20	< 1.20	< 1.20) <	1.20	0 0.00	0 0.00	< 1.20	< 1.20	< 1.20	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0 0.00	0 0	.00	0 0.00	50 ug/l	2-Hexanone	< 1.20	< 1.20	0 0.0	0.00	0.00
Methyl Bromide	ug/l	< 0.69		_	0.69	< 0.69	< 0.69		0.69	0 0.00		< 0.69	< 0.69	< 0.69	0 0.00	+	0.00 0	0.00	0 0.00		0.00	0 0.00	-	.00	0 0.00	5 ug/l	Methyl Bromide	< 0.69	< 0.69	+ + -	0.00	0.00
Methyl Chloride	ug/l	< 0.35	< 0.3	5 <	0.35	< 0.35	< 0.35	5 <	0.35	0.00	0 0.00	< 0.35	< 0.35	< 0.35	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0.00	0 0	.00	0 0.00	5 ug/l	Methyl Chloride	< 0.35	< 0.35	0 0.0	0.00	0.00
Methylene Bromide	ug/l	< 0.41	< 0.4	-1 <	0.41	< 0.41	< 0.41	<	0.41	0.00	0 0.00	< 0.41	< 0.41	< 0.41	0 0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	NA ug/l	Methylene Bromide	< 0.41	< 0.41	0 0.0	0.00	0.00
Methylene Chloride	ug/l	< 0.44	< 0.4	4 <	0.44	< 0.44	< 0.44	4 <	0.44	0.00	0 0.00	< 0.44	< 0.44	< 0.44	0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	5 ug/l	Methylene Chloride	< 0.44	< 0.44	0 0.0	0.00	0.00
Methyl Ethyl Ketone	ug/l	< 1.30	< 1.30	0 <	1.30	< 1.30	< 1.30) <	1.30	0.00	0 0.00	< 1.30	< 1.30	< 1.30	0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	50 ug/l	Methyl Ethyl Ketone	< 1.30	< 1.30	0 0.0	0.00	0.00
Methyl Iodide	ug/l	< 0.30	< 0.3	0 <	0.30	< 0.30	< 0.30) <	0.30	0.00	0 0.00	< 0.30	< 0.30	< 0.30	0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	5 ug/l	Methyl lodide	< 0.30	< 0.30	0 0.0	0.00	0.00
4-Methyl-2-pentanone	ug/l	< 2.10	< 2.10	0 <	2.10	< 2.10	< 2.10	<	2.10	0.00	0 0.00	< 2.10	< 2.10	< 2.10	0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	NA ug/l	4-Methyl-2-pentanone	< 2.10	< 2.10	0.0	0.00	0.00
Styrene	ug/l	< 0.73	< 0.7	3 <	0.73	< 0.73	< 0.73	3 <	0.73	0.00	0 0.00	< 0.73	< 0.73	< 0.73	0 0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	5 ug/l	Styrene	< 0.73	< 0.73	0 0.0	0.00	0.00
1,1,1,2-Tetrachloroethane	ug/l	< 0.35	< 0.3	5 <	0.35	< 0.35	< 0.35	· <	0.35	0.00	0 0.00	< 0.35	< 0.35	< 0.35	0 0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0.00	5 ug/l	1,1,1,2-Tetrachloroethane	< 0.35	< 0.35	0 0.0	0.00	0.00
1,1,2,2-Tetrachloroethane	ug/l	< 0.21	< 0.2	1 <	0.21	< 0.21	< 0.21	<	0.21	0 0.00	0 0.00	< 0.21	< 0.21	< 0.21	0 0.00	0	0.00 0	0.00	0.00	0	0.00	0.00	0 0	.00	0 0.00	5 ug/l	1,1,2,2-Tetrachloroethane	< 0.00	< 0.21	0 0.0	0.00	0.00
Tetrachloroethane	ug/l	< 0.36	< 0.3	6 <	0.36	< 0.36	< 0.36	5 <	0.36	0 0.00	0 0.00	0 0.66	< 0.36	< 0.36	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0.00	0 0	.00	0 0.00	5 ug/l	Tetrachloroethane	< 0.36	< 0.36	0 0.0	0.00	0.00
Toluene	ug/l	< 0.51	< 0.5	1 <	0.51	< 0.51	< 0.51	<	0.51	0 0.00	0 0.00	< 0.51	< 0.51	< 0.51	0 0.00	0	0.00 0	0.00	0 0.00	0	0.00	0.00	0 0	.00	0 0.00	5 ug/l	Toluene	< 0.51	< 0.51	0 0.	0.00	0.00
1,1,1-Trichloroethane	ug/l	< 0.82		_	0.82	< 0.82	++-		0.82	0 0.00		0 0.97	0 2.00	< 0.82	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	 	.00	0 0.00	5 ug/l	1,1,1-Trichloroethane	< 0.82	< 0.82	+	0.00	0.00
1,1,2-Trichloroethane	ug/l	< 0.23		_	0.23	< 0.23	++-		0.23	0 0.00		< 0.23	< 0.23	< 0.23	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	 	.00	0 0.00	5 ug/l	1,1,2-Trichloroethane	< 0.23	< 0.23	+	0.00	0.00
Trichloroethene	ug/l	< 0.46		_	0.46	< 0.46	++-		0.46	0 0.00			< 0.46	< 0.46	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00	5 ug/l	Trichloroethene	< 0.46	< 0.46	+	0.00	0.00
Trichlorofluoromethane	ug/l	< 0.88		-	0.88	< 0.88	++-		0.88	0 0.00		< 0.88	< 0.88	< 0.88	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00	5 ug/l	Trichlorofluoromethane	< 0.88	< 0.88	+	0.00	0.00
1,2,3-Trichloropropane	ug/l	< 0.89		_	0.89	< 0.89	++-		0.89	0 0.00		< 0.89	< 0.89	< 0.89	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00	5 ug/l	1,2,3-Trichloropropane	< 0.89	< 0.89	+	0.00	0.00
		 			0.89	< 0.89	++-			0 0.00		< 0.89	< 0.89	< 0.89	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0.00	-	.00	0 0.00			< 0.89	< 0.89	+	0.00 0	0.00
Vinyl Acetate	ug/l	< 0.85 uj			-		< 0.85		0.85		++		+	_		+		_	_	+	_	_	-		_	NA ug/l	Vinyl Acetate	-	_	+		-
Vinyl Chloride	ug/I	< 0.90			0.90	< 0.90	++-		0.90	0 0.00		< 0.90	< 0.90	< 0.90	0 0.00	+	0.00 0	0.00	0 0.00	+	0.00	0.00	-	.00	0.00	2 ug/l	Vinyl Chloride	< 0.90	< 0.90	+	0.00	0.00
m-Xylene and p-Xylene	ug/I	< 0.66		-	0.66	< 0.66	++		0.66	0 0.00		< 0.66	< 0.66	< 0.66	0 0.00		0.00 0	0.00	0 0.00	+	0.00	0 0.00	-	.00	0 0.00	5 ug/l	m-Xylene and p-Xylene	< 0.66	< 0.66		0.00	0.00
o-Xylene	ug/l	< 0.76	< 0.7	6 <	0.76	< 0.76	< 0.76	> <	0.76	0.00	0 0.00	< 0.76	< 0.76	< 0.76	0.00	0	0.00 0	0.00	0.00		0.00	0.00	0 0	.00	0.00	5 ug/l	o-Xylene	< 0.76	< 0.76	0 0.0	0.00	0.00

< In the lefthand column indicates the value is less than the method detection limit

Note: Reulatory values were derived from NYSDEC TOGS 1.1.1 (1998) and Part 703.3

Result rejected by validator.

1.00 Value exceeds regulatory standard

b Analyte in blank, possible/probable contamination d Detected at a secondary dilution u Result is undetected j Result is estimated uj Result estimated below the CRDL

< In the lefthand column indicates the value is less than the method detection limit 0 In the lefthand column indicates the value is within method detection limits

⁰ In the right hand column indictes the parameter was not analyzed

				·						
	GPI									
	Greenman-Pedersen, Inc.									
No.	Parameter	Units	3rc	d Qtr 2020	4t	h Qtr 2020	A	nnual 2021	A	nnual 2022
1	Field Eh	mV	0	427	0	36	0	85	0	127
2	Field pH	SU	0	6.7	0	6.72	0	7.8	0	7.67
3	Field Specific Conductivity	umhos/cm	0	2900	0	1700	0	3900	0	3160
4	Field Turbidity	NTU	0	318	0	38.2	0	35.1	0	119
5	Temperature	degC	0	18.9	0	10	0	13	0	9.5
6	BOD5	mg/l	0	26.7	0	23.2	0	45.7	0	23
8	Hexavalent Chromium	mg/l	0	0	0	0	0	0	<	0.0050
9	Nitrate-Nitrogen	mg/l	<	0.02	0	0.073	0	0.044	0	0.021
10	Alkalinity	mg/ICaCO3	0	879	0	579	0	1360	0	1150
11	Chloride	mg/l	0	268	0	143	0	439	0	324
12	COD	mg/l	0	579	0	85.5	0	311	0	226
13	Ammonia-Nitrogen	mg/l	0	68.7	0	39.2	0	106	0	89.5
14	Sulfide	mg/l	0	0	0	0	0	0	<	\bigwedge
15	Sulfate	mg/l	0	8.5	0	15.2	0	17.2	0	13.2
17	Total Disolved Solids	mg/l	0	1220	0	786	0	1650	0	1350
18	Total Kjeldahl Nitrogen	mg/l	0	75.5	0	39.2	0	99.8	0	102
19	TOC	mg/l	0	46.1	0	32.8	0	76.1	0	58.9 j
20	Total Phenols	mg/l	0	0.0054	0	0	0	0.011	<	0.0035
21	Total Aluminum	mg/l	0	1.2	0	0	<	0.06	<	0.06
22	Total Antimony by furnace method	mg/l	0	0.0021	0	0	<	0.0068	<	0.0068
23	Total Arsenic by furnace method	mg/l	0	0.14	0	0	0	0.0095	0	0.01
24	Total Barium	mg/l	0	3.7	0	0.00	0	0.38	0	0.41
25	Total Beryllium	mg/l	<	0.002	<	0.002	<	0.0003	<	0.0003
26	Total Boron	mg/l	0	1.4	0	0	0	2	0	1.6
27	Total Cadmium	mg/l	<	0.0005	<	0.0005	<	0.0005	0	0.00055
28	Total Calcium	mg/l	0	112	0	86.1	0	140	0	125
29	Total Chromium	mg/l	0	0.012	0	0	0	0.0025	0	0.0017
30	Total Cobalt	mg/l	0	0.0051	0	0	0	0.0032	0	0.0025
31	Total Copper	mg/l	0	0.0083	0	0	<	0.0016	<	0.0016
32	Total Iron	mg/l	0	449	0	12.5	0	10.1	0	10.5
33	Total Lead by furnace method	mg/l	0	0.0107	0	0.00066	<	0.003	0	0.00028
34	Total Magnesium	mg/l	0	37.8	0	23.7	0	65.3	0	52.7
35	Total Manganese	mg/l	0	1.2	0	0.79	0	0.99	0	0.96
36	Total Mercury	mg/l	<	0.0002	<	0.0002	0	0	<	0.000086
37	Total Nickel	mg/l	0	0.012	0	0	0	0.016	0	0.012
38	Total Potassium	mg/l	0	57.8	0	31	0	103	0	79.4
39	Total Selenium by furnace method	mg/l	<	0.001	<	0.001	<	0.0087	<	0.0087
	Total Silver	mg/l	0	0.0029	0	0	<	0.0017	<	0.0017
41	Total Sodium	mg/l	0	235	0	127	0	427	0	305
42	Total Thallium by furnace method	mg/l	<	0.0002	<	0.0002	<	0.01	<	0.01
44	Total Vanadium	mg/l	0	0.021	0	0	<	0.0015	<	0.0015
45	Total Zinc	mg/l	0	0.064	0	0	0	0.021	0	0.0026
46	Calculated Hardness	mg/1CaCO3	0	436	0	313	0	619	0	529
217	Bromide	mg/l	0	4.5	0	3	0	7.6	0	4.9

	GPI Greenman-Pedersen, Inc.									
No.	Parameter	Units	3rd	Qtr 2020	4t	h Qtr 2020	Α	nnual 2021	Α	nnual 2022
	EPA 8260 Expanded Volatiles									
47	Acetone	ug/l	0	23	0	0	<	12	<	12
	Acetonitrile	ug/l							<	20
	Acrolein	ug/l							<	3.6 uj
	Acrylonitrile	ug/l							<	3.3
51	Allyl Chloride	ug/l			_				<	1.8
52	Benzene	ug/l	0	2.7	0	0	0	1.7	<	4 II
53	Bromochloromethane	ug/l	<	4.4	<	4.4	<	3.5	<	3.5
54	Bromodichloromethane	ug/l	<	2	<	2	<	1.6	<	1.6
55	Bromoform	ug/l	<	1.3	<	1.3	<	1	<	1
56	Carbon Disulfide	ug/l	<	0.95	<	0.95	<	0.76	<	0.76
57	Carbon Tetrachloride	ug/l	<	1.4	<	1.4	<	1.1	<	1.1
58	Chlorobenzene	ug/l	<	3.8	<	3.8	<	3	<	3
59	Chloroethane	ug/l	<	1.6	<	1.6	0	2.8	0	3.4
60	Chloroform	ug/l	<	1.7	<	1.7	<	1.4	<	1.4
62	Dibromochloromethane	ug/l	<	1.6	<	1.6	<	1.3	<	1.3
	1,2-Dibromo-3-chloropropane	ug/l	<	2	<	2	<	1.6	<	1.6
	1,2-Dibromoethane	ug/l	<	3.7	<	3.7	<	2.9	<	2.9
	1,2-Dichlorobenzene	ug/l	<	4	<	4	<	3.2	<	0.4
	1,4-Dichlorobenzene	ug/l	<	4.2	<	4.2	<	3.4	0	1.6
	trans-1,4-Dichloro-2-butene	ug/l	<	1.1	<	1.1	<	0.88 j	<	0.88 j
	1,1-Dichloroethane	ug/l	<	1.9	<	1.9	0	2.5	0	2.9
	1,2-Dichloroethane	ug/l	<	1.1	<	1.1	<	0.84	<	0.84
	1,1-Dichloroethene	ug/l	<	1.5	<	1.5	<	1.2	<	1.2
73	cis-1,2-Dichloroethene	ug/l	<	4.1	<	4.1	<	3.2	<	3.2
	trans-1,2-Dichloroethene	ug/l	<	4.5	<	4.5	<	3.6	<	3.6
	1,2-Dichloropropane	ug/l	<	3.6	<	3.6	<	2.9	<	2.9
79	cis-1,3-Dichloropropene	ug/l	<	1.8	<	1.8	<	1.4	<	1.4
	trans-1,3-Dichloropropene	ug/l	<	1.9	<	1.9	<	1.5	<	1.5
81	Ethylbenzene	ug/l	<	3.7	<	3.7	0	3.2	0	5.5
	2-Hexanone	ug/l	<	6.2	<	6.2	<	5	<	5
84	Isobutyl Alcohol	ug/l							<	19 uj
	Methyl Bromide	ug/l	<	3.5	<	3.5	<	3.5	<	3.5
	Methyl Chloride	ug/l	<	1.8	<	1.8	<	1.6	<	1.6
	Methyl Ethyl Ketone	ug/l	<	6.6	<	6.6	<	5.3	<	5.3
	Methyl lodide	ug/l	<	1.5	<	1.5	<	1.2	<	1.2
	4-Methyl-2-pentanone	ug/l	<	11	<	11	<	8.4	<	8.4
	Methyl Methacrylate	ug/l		0.1		2.1		2.0	<	2.4 uj
	Methylene Bromide	ug/l	<	2.1	<	2.1	<	2.8	<	2.8
	Methylene Chloride	ug/l	<	2.2	<	2.2	0	2.9 j	<	2.2
	Styrene	ug/l	<	3.7	<	3.7	<	2.9	<	2.9
	1,1,1,2-Tetrachloroethane	ug/l	<	1.8	<	1.8	<	1.4	<	1.4
	1,1,2,2-Tetrachloroethane	ug/l	<	1.1	<	1.1	<	0.84	<	0.84
	Tetrachloroethane	ug/l	<	1.8	<	1.8	<	1.4	<	1.4
	Toluene	ug/l	<	2.6	<	2.6	<	2	<	2
	1,1,1-Trichloroethane	ug/l	<	4.1	<	4.1	<	3.3	<	3.3
	1,1,2-Trichloroethane	ug/l	<	1.2	<	1.2	<	0.92	<	0.92
	Trichloroethene	ug/l	<	2.3	<	2.3	<	1.8	<	1.8
	Trichlorofluoromethane	ug/l	<	4.4	<	4.4	<	3.5	<	3.5
	1,2,3-Trichloropropane	ug/l	<	4.5	<	4.5	<	3.6	<	3.6
	Vinyl Acetate	ug/l	<	4.3	<	4.3	<	3.4	<	3.4 uj
	Vinyl Chloride	ug/l	<	4.5	<	4.5	<	3.6	<	3.6
	m-Xylene and p-Xylene	ug/l	0	10	0	0	0	8.6	0	9.3
108	o-Xylene	ug/l	<	3.8	<	3.8	<	3	<	3

	GPI			·			
	Greenman-Pedersen, Inc.						
No.	Parameter	Units	3rd Qtr 2020	4th Qtr 2020	Annual 2021	A	nnual 2022
	Expanded Semivolitiles by EPA 8270						
	Acenaphthene	ug/l				<	0.41
	Acenaphthylene	ug/l				<	0.38
	Acetophenone	ug/l				<	0.54
	2-Acetylaminoflourene	ug/l				<	2.3
	4-Aminobiphenyl	ug/l				<	0.81
	Anthracene	ug/l				<	0.28
	Benzo (a) anthracene	ug/l				<	0.36
	Benzo (b) fluoranthene	ug/l				<	0.34
	Benzo (k) fluroanthene	ug/l				<	0.73
	Benzo (ghi) perylene	ug/l				<	0.35
119	Benzo (a) pyrene	ug/l				<	0.47
	Benzyl Alcohol	ug/l				<	2.0
121	Bis (2-chloroethoxy) methane	ug/l				<	0.35
	Bis (2-chloroethyl) ether	ug/l				<	0.40
	Bis (2-chloro-1-methylethyl) ether	ug/l	 			<	0.52
	Bis (2-ethylhexyl) phthalate	ug/l	 			<	2.2
	4-Bromophenyl phenyl ether	ug/l	 			<	0.45
	Butyl benzyl phthalate	ug/l	 			<	1.0
	p-Chloroaniline Chlorobenzilate	ug/l				<	0.59 0.67
		ug/l				<	0.67
	p-Chloro-m-cresol 2-Chloronaphthalene	ug/l				<	0.45
	2-Chlorophenol	ug/l				<	0.46
	4-Chlorophenol phenyl ether	ug/l ug/l				<	0.35
	Chrysene	ug/l ug/l				<	0.33
	m-Cresol	ug/l ug/l				<	0.40
	o-Cresol	ug/l				<	0.40
	p-Cresol	ug/l				<	0.36
	Diallate	ug/l				<	2.5
	Dibenzo (a,h) anthracene	ug/l				<	0.42
	Dibenzofuran	ug/l				<	0.51
	Di-n-butylphthalate	ug/l				<	5 u
	3,3'-Dichlorobenzidine	ug/l				<	0.40
	2,4-Dichlorophenol	ug/l				<	0.51
	2,6-Dichlorophenol	ug/l				<	0.46
		ug/l				0	0.37 j
	Thionazin	ug/l				<	0.38
	Dimethoate	ug/l				<	0.54
147	p-(Dimethylamino) azobenzene	ug/l				<	0.75
	7,12-Dimethylbenz (a) anthracene	ug/l				<	0.62
149	3,3'-Dimethylbenzidine	ug/l				<	2.5
	2,4-Dimethylphenol	ug/l				0	0.75
	Dimethylphthalate	ug/l				<	0.36
	m-Dinitrobenzene	ug/l				<	0.82
	4,6-Dinitro-o-cresol	ug/l				<	2.2
	4,6-Dinotrophenol	ug/l				<	2.2
	2,4-Dinitrotoluene	ug/l				<	0.45
	2,6-Dinitrotoluene	ug/l				<	0.40
	Di-n-octylphthalate	ug/l				<	0.47
	Diphyenylamine	ug/l				<	0.82
	Disulfoton	ug/l				<	0.42
	Ethyl Methanesulfonate	ug/l				<	0.39
	Famphur	ug/l				<	1.9
	Fluorathene	ug/l				<	0.40
	Fluorene	ug/l				<	0.36
	Hexachlorobenzine	ug/l				<	0.51
	Hexachlorobutadiene	ug/l				<	0.68
166	Hexachlorocyclopentadiene	ug/l				<	0.59
167	Hexachloroethane	ug/l				<	0.59

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	GPI Greenman-Pedersen, Inc.						
No.	Parameter	Units	3rd Qtr 2020	4th Qtr 2020	Annual 2021	A	nnual 2022
	Hexachloropropene	ug/l			T	<	2.5
	Ideno (1,2,3-cd) pyrene	ug/l				<	0.47
	Isodrin	ug/l	 			<	0.18
	Isophorone	ug/l	† †			<	0.43
	Isosafrole	ug/l				<	0.58
	Methapyrilene	ug/l				<	1.8
174	3-Methylcholanthrene	ug/l	 			<	2.5
	Methyl Methanesulfonate	ug/l	 			<	2.5
	2-Methylnaphthalene	ug/l				<	0.37
	Methyl Parathion	ug/l				<	0.37
	Naphthalene	ug/l				0	1.9
	1,4-Naphthoquinone	ug/l				<	0.24
	1-Naphthylamine	ug/l	 			<	1.3
	2-Naphthylamine	ug/l ug/l				<	2.5
	o-Nitroaniline	ug/l				<	0.42
	m-Nitroaniline					<	0.48
	p-Nitroaniline	ug/l ug/l	 			<	0.48
	Nitrobenzene					<	0.29
	o-Nitrophenol	ug/l				<	0.48
		ug/l					1.5
	p-Nitrophenol	ug/l				<	1.5 10 u
100	N-nitrosodi-n-butylamine	ug/l				<	
	N-Nitrosodiethylamine	ug/l				<	0.36
	N-Nitrosodimethylamine	ug/l				<	2.2
	N-Nitrosodiphenylamine	ug/l				<	0.51
	N-Nitosodipropylamine	ug/l				<	0.54
	N-Nitosomethylethylamine	ug/l				<	2.5
	N-Nitrosopiperidine	ug/l				<	2.5
	N-Nitrosopyrrolidine	ug/l				<	2.5
	5-Nitro-o-toluidine	ug/l				<	0.66
	Parathion	ug/l				<	0.64
	Pentachlorobenzene	ug/l				<	0.53
	Pentachloronitrobenzene	ug/l				<	2.5
	Pentachlorophenol	ug/l				<	2.2
	Phenacetin	ug/l				<	0.61
	Phenanthrene	ug/l				<	0.44
	Phenol	ug/l				<	0.39
	p-Phenylenediamine	ug/l				<	200
	Phorate	ug/l				<	0.50
	Pronamide	ug/l				<	2.5
	Pyrene	ug/l				<	0.34
	Safrole	ug/l				<	0.46
	1,2,4,5-Tetrachlorobenzene	ug/l				<	0.58
	2,3,4,6-Tetrachlorophenol	ug/l				<	0.32
	o-Toluidine	ug/l				<	1.5
	1,2,4-Trichlorobenzene	ug/l				<	0.44
	2,4,5-Trichlorophenol	ug/l				<	0.48
	2,4,6-Trichlorophenol	ug/l				<	0.61
	0,0,0-Triethyl phosphorothioate	ug/l				<	2.5
216	sym-Trinitrobenzene	ug/l				<	2.5
	Expanded Herbicides by EPA 8150						
218	2,4-D	ug/l				<	0.17
	2,4,5-TP	ug/l				<	0.067
	Dinoseb	ug/l				<	0.13 uj
221	2,4,5-T	ug/l				<	0.067

Farwell Landfill Annual 2022 Leachate Analysis Summary

	GPI									
	Greenman-Pedersen, Inc.									
Nο	Parameter	Units	3rd	Qtr 2020	4	th Qtr 2020	ΙΔ	nnual 2021	A	nnual 2022
1,0.	Expanded Pesticides/PCBs by EPA 8080		1	2.1 2020		2020		1		illiadi EGEE
222	Aldrin	ug/l							<	0.0081
	BHC (a-isomer)	ug/l							<	0.0077
	BHC (b-isomer)	ug/l							<	0.025
	BHC (g-isomer)	ug/l							<	0.0080
226	BHC (d-isomer)	ug/l							<	0.010
	alpha-Chlordane	ug/l							<	0.29
228	gamma-Chlordane	ug/l							<	0.29
229	4,4'-DDT	ug/l							0	0.025
	4,4'-DDE	ug/l							<	0.012
	4,4'-DDD	ug/l							<	0.0092
	Dieldrin	ug/l							<	0.0098
	Endosulfan (a-isomer)	ug/l							0	0.11
234	Endosulfan (b-isomer)	ug/l							<	0.012
	Endosulfan sulfate	ug/l							<	0.016
236	Endrin	ug/l							<	0.014
237	Endrin Aldehyde	ug/l							<	0.05 u
	Heptachlor	ug/l							<	0.0085
	Heptachlor Epoxide	ug/l							<	0.0074
	Kepone	ug/l							<	1.8
	Methoxychlor	ug/l							0	0.021
	PCB, Aroclor 1016	ug/l							<	0.20
	PCB, Aroclor 1221	ug/l							<	0.20
	PCB, Aroclor 1232	ug/l							<	0.20
	PCB, Aroclor 1242	ug/l							<	0.20
	PCB, Aroclor 1248	ug/l							<	0.20
	PCB, Aroclor 1254	ug/l							<	0.28
	PCB, Aroclor 1260	ug/l							<	0.28
249	Toxaphene	ug/l							<	0.12

Notes:

- b = possible/probable blank contamination
- j = result determined to be estimated by validator
- X = result rejected by validator
- < In the lefthand column indicates the value is less than the method detection limit
- 0 In the lefthand column indictes the value is within method detection limits
- 0 In the righthand column indictes the parameter was not analyzed
- Bold face type indicates historical maximum at time of analysis

Farwell Landfill 2022 Annual Water Quality Monitoring Report Groundwater Elevations

CDI	TOP OF						DEPTH TO	ELEVATION	COMPARED
GPI	CASING						WATER	OF WATER	TO LAST
Greenman-Pedersen, Inc.	ELEVATION	Feb-20	Apr-20	Jul-20	Dec-20	May-21	May-22	May-22	YEAR
Down-Gradient (annual)									
MW-14S	1539.42	1481.12	1492.62	1484.52	1488.92	1489.22	49.70	1489.72	0.50
MW-14I	1539.79	1474.99	1490.89	1484.69	1488.79	1490.19	50.50	1489.29	-0.90
MW-15\$	1508.83	1489.23	1494.23	1489.83	1489.03	1489.03	19.20	1489.63	0.60
MW-151	1509.5	1489.55	1489.90	1487.50	1488.80	1489.10	19.80	1489.70	0.60
MW-16S	1506.55	1488.84	1490.65	1489.45	1490.15	1489.45	15.90	1490.65	1.20
MW-16I	1507.61	1490.21	1490.31	1488.21	1489.91	1489.51	16.80	1490.81	1.30
MW-19	1543.31	1489.01	1488.21	1486.81	1483.91	1483.91	54.60	1488.71	4.80
MW-20	1534.12	1489.22	1489.22	1487.62	1486.12	1486.12	45.80	1488.32	2.20
MW-21	1535.5	1486.40	1489.10	1486.00	1496.40	1487.90	47.60	1487.90	0.00
MW-22	1498.28	1486.18	1487.28	1484.58	1486.38	1485.58	11.80	1486.48	0.90
MW-23	1495	1485.00	1486.50	1484.60	1486.80	1483.30	9.80	1485.20	1.90
MW-24	1486.54	1482.14	1482.64	1481.14	1482.74	1480.84	4.20	1482.34	1.50
MW-25	1496.91	1480.21	1480.81	1478.91	1480.11	1479.81	16.50	1480.41	0.60
Cross-Gradient (annual)									
MW-171	1510.45	1491.67	1492.45	1491.45	1492.55	1500.35	18.10	1492.35	-8.00
MW-17S	1509.24	1492.04	1492.44	1491.74	1492.44	1491.84	16.80	1492.44	0.60
Down-Gradient Piezometer / Off-Site									
Locations (quarterly)									
PZ-15	1508.16	NA	NA	NA	NA	1488.26	18.70	1489.46	1.20
MW-185	1502.53	NA	NA	NA	NA	1488.03	11.50	1491.03	NA
MW-18D	1502.51	NA	NA	NA	NA	1488.61	11.40	1491.11	NA
Ischua Creek ** (SW-2) at Farwell Rd Bridg	1504.75	NA	NA	NA	NA	1487.25	15.40	1489.35	NA
Down-Gradient (biennially)									
MW-95 *	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9D	1545.11	NA	1492.41	NA	NA	1490.11	53.50	1491.61	1.50
MW-10S	1530.49	NA	1499.99	NA	NA	1498.49	32.20	1498.29	-0.20
MW-10D	1528.42	NA	1490.42	NA	NA	1489.42	38.30	1490.12	0.70
MW-115	1535.19	NA	1496.19	NA	NA	1495.39	39.20	1495.99	0.60
MW-11D	1535.57	NA	1490.57	NA	NA	1489.07	46.30	1489.27	0.20
Up/Cross-Gradient (biennially)									
MW-6 (up)	1623.68	NA	1494.88	NA	NA	1493.68	129.00	1494.68	1.00
MW-13D (cross)	1586.65	NA	1491.45	NA	NA	1487.65	96.40	1490.25	2.60

Notes: NA - Not available.

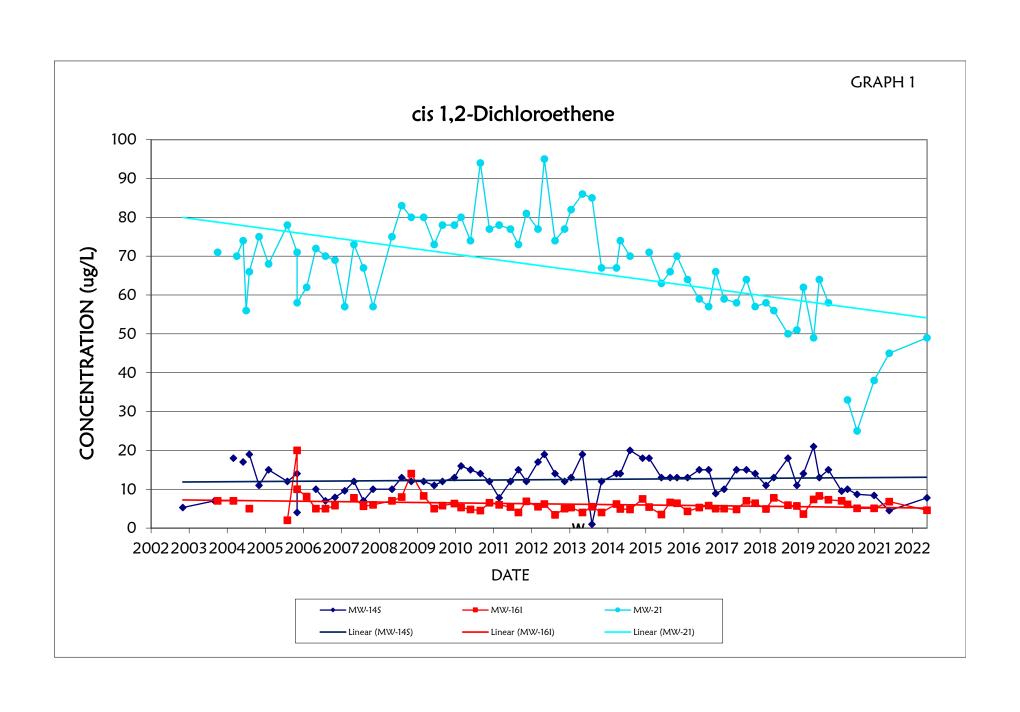
Elevations in feet above mean sea level (AMSL).

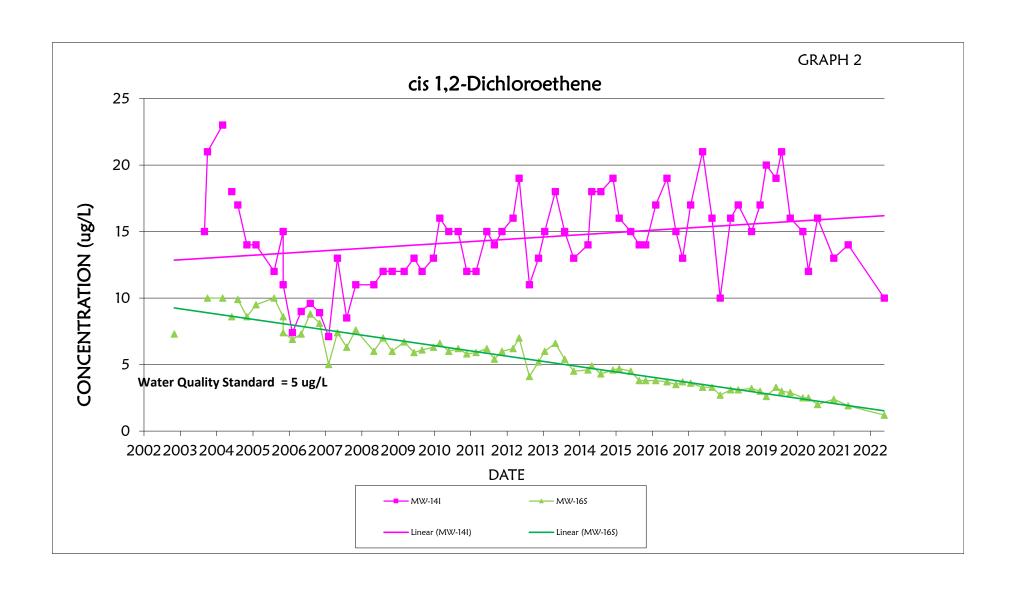
^{* -} MW-95 was dry - no sample collected

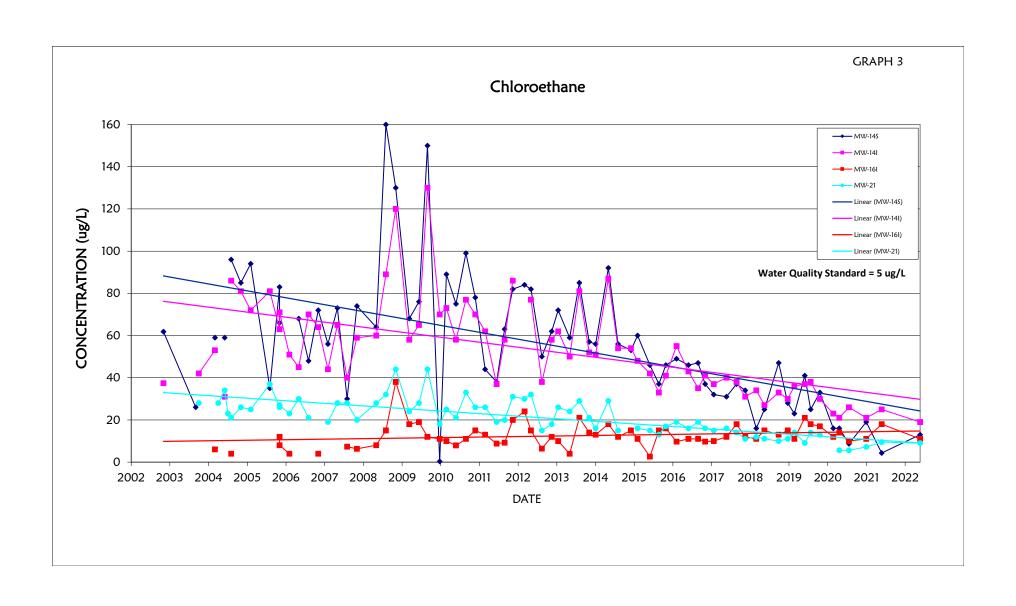
^{** -} Elevation of bolt on northwest side of the bridge, water elevation is determined by measuring down to the top of water from this bolt

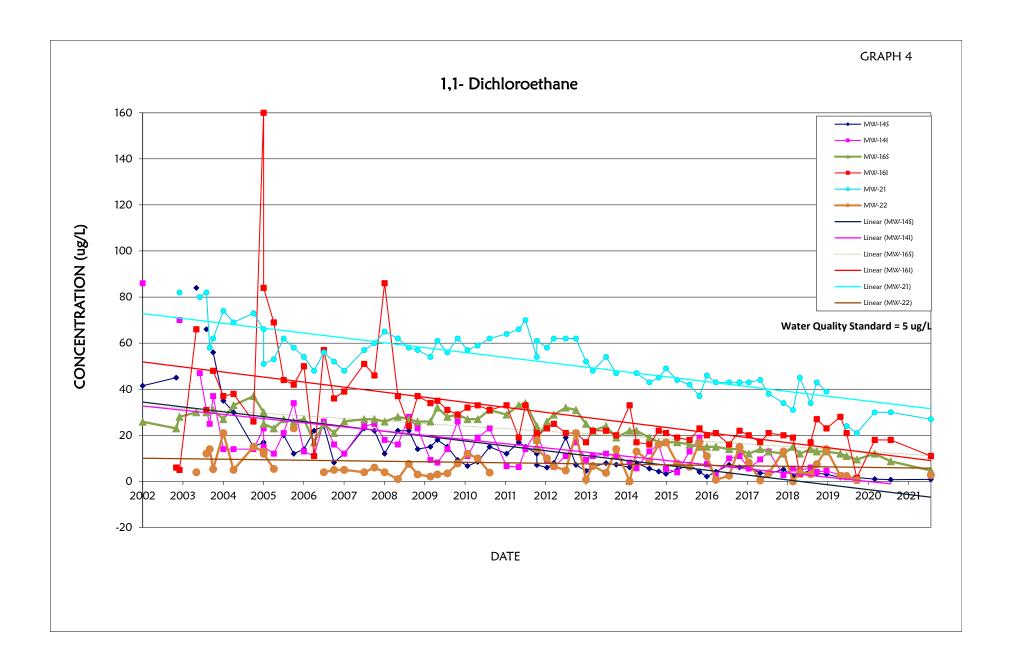
PARAMETER SPECIFIC GRAPHS

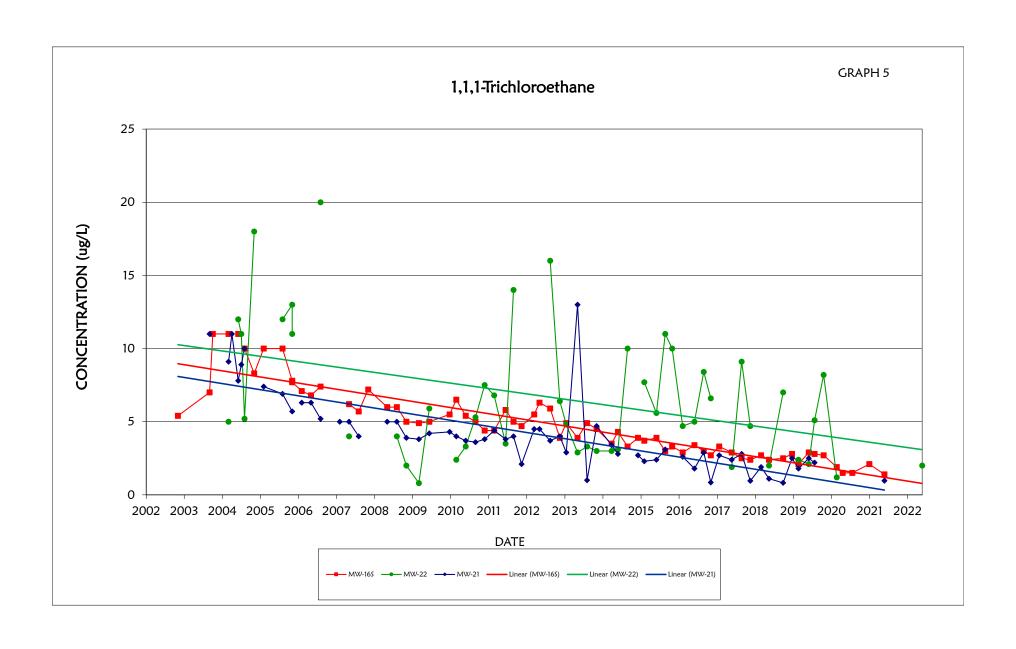


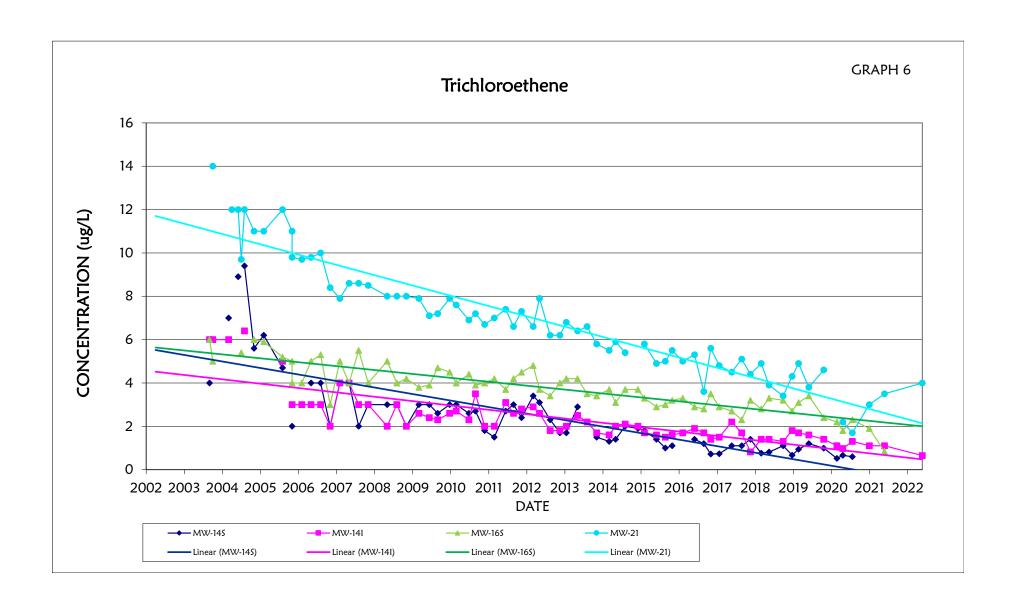


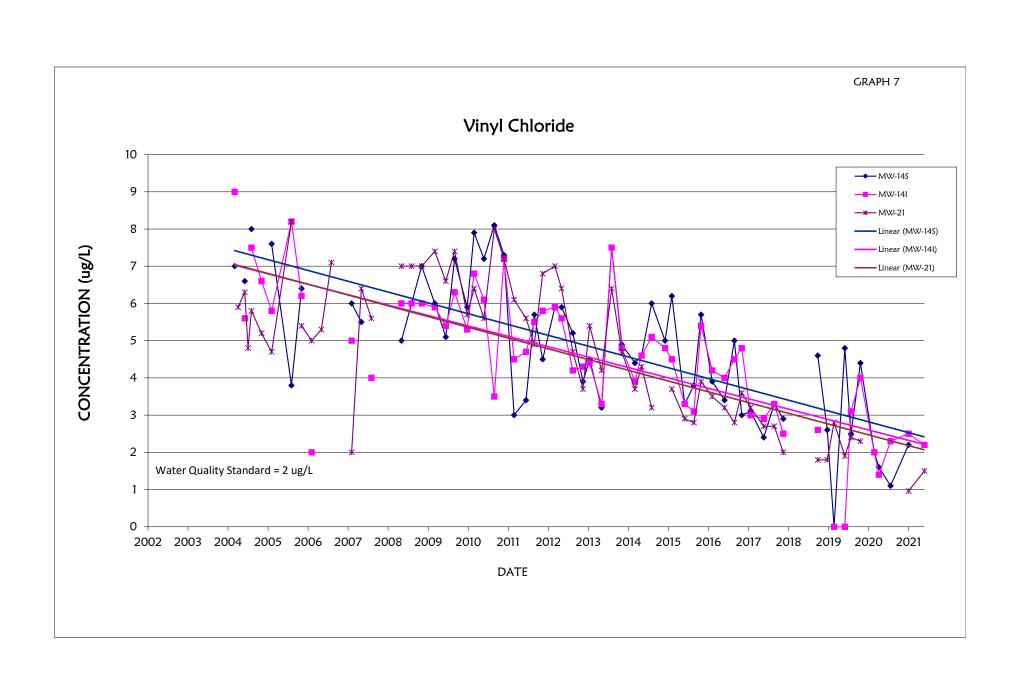












APPENDIX A – SECTION 6 OF JULY 2020 MONITORING REDUCTION REQUEST & NYSDEC APPROVAL LETTER



6. Conclusions

6.1 Part 360 Monitoring

Under this request, as part of the landfill's Part 360 monitoring program, Cattaraugus County would:

- Monitor designated upgradient/crossgradient groundwater monitoring wells MW-6 and MW-13D and designated downgradient groundwater monitoring wells MW-9D, MW-10D, MW-10S, MW-11D, and MW-11S on a biennial basis, in May every other year
- Measure and record groundwater elevations and field parameters (i.e., temperature, conductivity, salinity, dissolved oxygen, oxidation reduction potential, and turbidity) during each monitoring event at each groundwater monitoring well sampled
- Analyze samples taken from groundwater monitoring wells for a modified list of Part 360 Baseline Parameters, including:
 - Leachate indicators (alkalinity, ammonia, biological oxygen demand, boron, bromide, chloride, chemical oxygen demand, color, hardness, nitrate, phenols, sulphate, total dissolved solids, total kjeldahl nitrogen, and total organic carbon)
 - VOCs
- Leachate collection system samples will be collected annually, in May of each year, and will
 continue to be analyzed for the Part 360 Expanded Parameters list.

Based on the historical sampling analytical results, which show static and/or decreasing trends in the majority of the parameters analyzed, this requested frequency and analytical list will provide adequate data to continue to establish trends, if any, in groundwater quality over time.

6.2 Inactive Hazardous Waste Site Monitoring

Under this request, as part of the landfill's inactive hazardous waste site monitoring program, Cattaraugus County would:

- Monitor designated upgradient groundwater monitoring wells MW-17I and MW-17S and designated downgradient groundwater monitoring wells MW-14I, MW-14S, MW-15I, MW-15S, MW-16I, MW-16S, MW-21, MW-22, and MW-23 on an annual basis, in May of each year
- Measure and record groundwater elevations and field parameters (i.e., temperature, conductivity, salinity, dissolved oxygen, oxidation reduction potential, and turbidity) during each monitoring event at each groundwater monitoring well sampled
- Analyze samples taken from groundwater monitoring wells for volatile organic compounds.

Based on the historical sampling analytical results, which show static and/or decreasing trends in the majority of the parameters analyzed, this requested frequency and analytical list will provide adequate data to continue to establish trends, if any, in groundwater quality over time.

TABLE 6-1
Environmental Monitoring Program Summary

Well ID	Unit Screened	Bottom Depth (feet below top of PVC casing)	Monitoring Program	Analytical Requirements
MW-6	Bedrock	160	Part 360	Biennial Frequency (May) Modified Baseline and Field Parameters
MW-13D	Overburden/ Bedrock Interface	99.65	Part 360	Biennial Frequency (May) Modified Baseline and Field Parameters
MW-9D	Overburden	76.42	Part 360	Biennial Frequency (May) Modified Baseline and Field Parameters
MW-10S	Overburden	33.77	Part 360	Biennial Frequency (May) Modified Baseline and Field Parameters
MW-10D	Overburden	87.05	Part 360	Biennial Frequency (May) Modified Baseline and Field Parameters
MW-11S	Overburden	45.45	Part 360	Biennial Frequency (May) Modified Baseline and Field Parameters
MW-11D	Overburden	92.8	Part 360	Biennial Frequency (May) Modified Baseline and Field Parameters
MW-17S	Overburden	40	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-17I	Overburden/ Bedrock Interface	97	ОМ&М	Annual Frequency (May) VOCs and Field Parameters
MW-14S	Overburden	56	OM&M	Annual Frequency (May) VOCs and Field Parameters

Well ID	Unit Screened	Bottom Depth (feet below top of PVC casing)	Monitoring Program	Analytical Requirements
MW-14I	Overburden	84	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-15S	Overburden	47	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-15I	Overburden/ Bedrock Interface	81	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-16S	Overburden	42	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-16I	Overburden/ Bedrock Interface	87	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-21	Overburden	122	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-22	Overburden	57	OM&M	Annual Frequency (May) VOCs and Field Parameters
MW-23	Overburden	54	OM&M	Annual Frequency (May) VOCs and Field Parameters
L-1	Leachate Tank	-	Part 360	Annual Frequency (May) Part 360 Expanded Parameters

NOTES:

- 1. Modified Baseline Analytical List: Leachate indicators (alkalinity, ammonia, biological oxygen demand, boron, bromide, chloride, chemical oxygen demand, color, hardness, nitrate, phenols, sulphate, total dissolved solids, total kjeldahl nitrogen, and total organic carbon) and VOCs
- 2. Field Parameters: Depth to water, depth of well, temperature, conductivity, salinity, dissolved oxygen, oxidation reduction potential, and turbidity

TABLE 6-2
Part 360 Monitoring Program Analytical Parameter List and Analytical Methods

Analytical Parameter	Analytical Method
MODIFIED BASELINE SAMPLING EVE	ENTS
LEACHATE INDICATORS	
Alkalinity	310.2
Ammonia	350.1
Biological oxygen demand	SM5210B
Boron	6010C
Bromide	300.0
Chloride	300.0
Chemical oxygen demand	410.4
Color	SM2120B
Hardness	SM2340B
Nitrate	353.2
Phenols	420.1
Sulphate	300.0
Total dissolved solids	SM2540C
Total kjeldahl nitrogen	351.2
Total organic carbon	9060A
VOLATILE ORGANIC COMPOUNDS	
1,1,1,2-tetrachloroethane	8260C
1,1,1-trichloroethane	8260C
1,1,2,2-tetrachloroethane	8260C
1,1,2-trichloroethane	8260C
1,1-dichloroethane	8260C
1,1-dichloroethene	8260C
1,2,3-trichloropropane	8260C
1,2-dibromo-3-chloropropane	8260C
1,2-dibromoethane	8260C
1,2-dichlorobenzene	8260C
1,2-dichloroethane	8260C
1,2-dichloropropane	8260C
1,2-diofiloroproparie	8260C

2-butanone (MEK) 8260C 2-hexanone (MBK) 8260C 4-methyl-2-pentanone (MIBK) 8260C Acetone 8260C Acrylonitrile 8260C Benzene 8260C Bromochloromethane 8260C Bromodichloromethane 8260C Bromoform 8260C Bromoethane 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloromethane 8260C Cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Tetrachloroethene 8260C Tetrachloroethene 8260C Trichlorofluoromethane 8260C	Analytical Parameter	Analytical Method
2-hexanone (MBK) 8260C 4-methyl-2-pentanone (MIBK) 8260C Acetone 8260C Acrylonitrile 8260C Benzene 8260C Bromochloromethane 8260C Bromoform 8260C Bromomethane 8260C Bromomethane 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloromethane 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Trichloroethene 8260C Trichloroethene 8260C Trichloroethene 8260C Trichloroethene 8260C Trichlorofluoromethane 8260C Trichl	2-butanone (MEK)	8260C
4-methyl-2-pentanone (MIBK) 8260C Acetone 8260C Acrylonitrile 8260C Benzene 8260C Bromochloromethane 8260C Bromodichloromethane 8260C Bromoform 8260C Bromomethane 8260C Carbon disulfide 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorodibromomethane 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Trichloroethene 8260C Trichloroethene 8260C Trichloroethene 8260C Trichlororoethene 8260C Trichlorofluoromethane 8260C <tr< td=""><td></td><td>8260C</td></tr<>		8260C
Acetone 8260C Acrylonitrile 8260C Benzene 8260C Bromochloromethane 8260C Bromodichloromethane 8260C Bromoform 8260C Bromomethane 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	· ,	8260C
Acrylonitrile 8260C Bromochloromethane 8260C Bromodichloromethane 8260C Bromoform 8260C Bromomethane 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C		8260C
Benzene 8260C Bromochloromethane 8260C Bromodichloromethane 8260C Bromoform 8260C Bromomethane 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Acrylonitrile	8260C
Bromochloromethane 8260C Bromoform 8260C Bromomethane 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C		8260C
Bromoform 8260C Bromomethane 8260C Carbon disulfide 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chloroform 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Bromochloromethane	8260C
## Stromororm Bromomethane	Bromodichloromethane	8260C
Bromometnane 8260C Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chloroethane 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Bromoform	8260C
Carbon tetrachloride 8260C Chlorobenzene 8260C Chlorodibromomethane 8260C Chloroethane 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Bromomethane	8260C
Carbon tetrachloride 8260C Chlorodibromomethane 8260C Chloroethane 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Carbon disulfide	8260C
Chlorodibromomethane 8260C Chloroethane 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Tetrachloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C		8260C
Chloroethane 8260C Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Chlorobenzene	8260C
Chloroform 8260C Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Chlorodibromomethane	8260C
Chloromethane 8260C cis-1,2-dichloroethene 8260C cis-1,3-dichloropropene 8260C Dibromomethane 8260C Dichloromethane 8260C Ethylbenzene 8260C Iodomethane 8260C Styrene 8260C Trichloroethene 8260C Toluene 8260C trans-1,2-dichloroethene 8260C trans-1,3-dichloropropene 8260C trans-1,4-Dichloro-2-butene 8260C Trichlorofluoromethane 8260C Vinyl acetate 8260C	Chloroethane	8260C
cis-1,2-dichloroethene cis-1,3-dichloropropene Dibromomethane B260C Ethylbenzene Iodomethane Styrene Trichloroethene Toluene trans-1,2-dichloropropene trans-1,4-Dichloro-2-butene Tis-1,2-dichloromethane S260C S260C S260C Trichlorofluoromethene S260C	Chloroform	8260C
cis-1,3-dichloropropene Dibromomethane Dichloromethane Ethylbenzene lodomethane Styrene Trichloroethene Toluene trans-1,3-dichloropropene trans-1,4-Dichloro-2-butene Tichlorofluoromethane S260C R260C	Chloromethane	8260C
cis-1,3-dichloropropene Dibromomethane B260C B260C Ethylbenzene B260C Ethylbenzene B260C Iodomethane Styrene Trichloroethene Tetrachloroethene Toluene trans-1,2-dichloropropene trans-1,3-dichloropropene trans-1,4-Dichloro-2-butene Trichlorofluoromethane Vinyl acetate 8260C 8260C 8260C 8260C 8260C 8260C	cis-1,2-dichloroethene	8260C
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Lead 6020A 6020A 6020A		6020A
Selenium 6020A		6020A
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	Thallium	6020A

Mercury 7470A LEACHATE INDICATORS SM2340B Calcium and Magnesium Hardness 300.0 Bromide 300.0 Chloride 300.0 Sulfate 300.0 Alkalinity, Total 310.2 Ammonia as N 350.1 Total Kjeldahl Nitrogen 351.2 Nitrate 353.2 Chemical Oxygen Demand 410.4 Total Recoverable Phenolics 420.1 Boron 6010C Hexavalent chromium 7196A Cyanide, Total 9012B Total Organic Carbon 9060A Total Dissolved Solids SM2540C Biological Oxygen Demand SM5210B Specific Conductance 120.1 Color SM210B VOLATILE ORGANIC COMPOUNDS 8260C 1,1-Dichloroethane 8260C 2-Butanone 8260C Acetone 8260C Benzene 8260C Chlorobenzene 8260C Chloromethane 8260C	Analytical Parameter	Analytical Method
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Ammonia as N Total Kjeldahl Nitrogen Nitrate 353.2 Chemical Oxygen Demand Total Recoverable Phenolics Boron Hexavalent chromium Cyanide, Total Total Organic Carbon Total Dissolved Solids Biological Oxygen Demand SM5210B Specific Conductance Color VOLATILE ORGANIC COMPOUNDS 1,1-Dichloroethane 2-Butanone Acetone Benzene Chlorobenzene Chloromethane Cis-1,2-Dichloroethene Ethylbenzene Methylene Chloride 353.2 353.2 3610.4 3620.1 363.2	Alkalinity, Total	310.2
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Total Organic Carbon Total Dissolved Solids Biological Oxygen Demand Specific Conductance Color VOLATILE ORGANIC COMPOUNDS 1,1-Dichloroethane 2-Butanone Acetone Benzene Chlorobenzene Chloroethane 2-Butanone Chloromethane 2-Booc Chloromethane 8260C Chloromethane Ethylbenzene m,p-Xylene Methylene Chloride 9060A SM2540C SM2540C SM2120B 8260C	Hexavalent chromium	7196A
Total Organic Carbon Total Dissolved Solids Biological Oxygen Demand Specific Conductance Color VOLATILE ORGANIC COMPOUNDS 1,1-Dichloroethane 2-Butanone Acetone Benzene Chlorobenzene Chloroethane Chloromethane 2-Butanone 8260C Chloromethane 8260C Chloromethane Ethylbenzene m,p-Xylene Methylene Chloride	Cyanide, Total	9012B
Total Dissolved Solids Biological Oxygen Demand Specific Conductance Color VOLATILE ORGANIC COMPOUNDS 1,1-Dichloroethane 2-Butanone Acetone Benzene Chlorobenzene Chloroethane 2-BoC Chloroethane 8260C Chloromethane 8260C Chloromethane 8260C Chloromethane 8260C Chloromethane 8260C Chloromethane Chloroethane 8260C Chloromethane 6260C Chloromethane	·	9060A
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Specific Conductance 120.1 Color SM2120B VOLATILE ORGANIC COMPOUNDS 8260C 1,1-Dichloroethane 8260C 2-Butanone 8260C Acetone 8260C Benzene 8260C Chlorobenzene 8260C Chloroethane 8260C Chloromethane 8260C cis-1,2-Dichloroethene 8260C Ethylbenzene 8260C Methylene Chloride 8260C	Biological Oxygen Demand	SM5210B
Color SM2120B VOLATILE ORGANIC COMPOUNDS 8260C 1,1-Dichloroethane 8260C 2-Butanone 8260C Acetone 8260C Benzene 8260C Chlorobenzene 8260C Chloroethane 8260C Chloromethane 8260C cis-1,2-Dichloroethene 8260C Ethylbenzene 8260C m,p-Xylene 8260C Methylene Chloride 8260C		120.1
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Chloropenzene Chloroethane Chloromethane 8260C 8260C cis-1,2-Dichloroethene Ethylbenzene m,p-Xylene Methylene Chloride 8260C 8260C	Benzene	8260C
Chloromethane Chloromethane cis-1,2-Dichloroethene Ethylbenzene m,p-Xylene Methylene Chloride 8260C 8260C 8260C	Chlorobenzene	8260C
cis-1,2-Dichloroethene Ethylbenzene m,p-Xylene Methylene Chloride 8260C 8260C 8260C	Chloroethane	8260C
Ethylbenzene Ethylbenzene m,p-Xylene Methylene Chloride 8260C 8260C	Chloromethane	8260C
m,p-Xylene Methylene Chloride 8260C 8260C	cis-1,2-Dichloroethene	8260C
Methylene Chloride 8260C		8260C
Methylene Chloride 8260C	m,p-Xylene	8260C
82600		8260C
	o-Xylene	8260C

Analytical Parameter	Analytical Method
Toluene	8260C
Trichloroethene	8260C
Vinyl chloride	8260C
FIELD PARAMETERS	
pH, Field	Calibrated Field Meter
Field Conductivity	Calibrated Field Meter
Temperature, Field	Calibrated Field Meter
Field Turbidity	Calibrated Field Meter
Field EH/ORP	Calibrated Field Meter

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9 270 Michigan Avenue, Buffalo, NY 14203-2915 P: (716) 851-7220 | F: (716) 851-7226 www.dec.ny.gov

September 14, 2020

Ms. Kathleen Ellis Cattaraugus County Department of Public Works Jack Ellis Drive 8810 Route 242 Little Valley, NY 14755

> Re: Farwell Road Landfill. Site No.: 905024 Ischua, Cattaraugus County

Post-Closure Monitoring Reduction

Dear Ms. Ellis:

The Department has reviewed the revised Post-Closure Landfill Monitoring Reduction Request [July 2020] relating to the Farwell Road Landfill site, as prepared by GHD. The revised document has generally addressed the Department's previous comments. As such, the proposed monitoring frequency outlined in Section 6 of the request is acceptable to the Department, provided that groundwater elevations in the Part 360 monitoring wells are also measured annually.

The reduced monitoring programs may begin immediately, with the first annual and biennial sampling events to be completed in May 2021. The details of the reduced monitoring program must be incorporated into the Site Management Plan. A revised Site Management Plan must be submitted to the Department for review by November 16, 2020.

If you have any questions on the above comments, please contact me at 716-851-7220 or benjamin.mcpherson@dec.ny.gov.

Sincerely,

Digitally signed by Benjamin McPherson DN: cn=Benjamin McPherson, o=NYSDEC, ou=DER Berjan J. Ma Phoran - Region 9, email-benjamin.mcpherson@dec.ny.gov, c=US Date: 2020.09.14 11.34:56 -04'00'

Benjamin McPherson, P.E.

Project Manager

Professional Engineer 1 (Environmental)



ec:

Andrea Caprio, DEC DER
Benjamin McPherson, DEC DER
Steven McDonnell, DEC DMM
Scarlett McLaughlin, DOH
Kathleen Ellis, Cattaraugus County DPW (kmellis@cattco.org)
Charles Gordner, Cattaraugus County DPW (cjgordner@cattco.org)
James Manzella, GPI (imanzella@gpinet.com)
Ian McNamara, GHD (lan.McNamara@ghd.com)

APPENDIX B - NYSDEC SITE MANAGEMENT PERIODIC REVIEW NOTICE INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM





Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Site No. 905024	Site Details	Box 1
Site Name Farwell Road	Landfill	
Site Address: Farwell Roa City/Town: Ischua County: Cattaraugus Site Acreage: 13.000		
Reporting Period: January	y 16, 2022 to January 16, 2023	
		YES NO
Is the information above	ve correct?	×
If NO, include handwrit	itten above or on a separate sheet.	
	site property been sold, subdivided, merged, or unde during this Reporting Period?	rgone a
3. Has there been any ch (see 6NYCRR 375-1.1	nange of use at the site during this Reporting Period	
	e, and/or local permits (e.g., building, discharge) beer during this Reporting Period?	n issued
If you answered YES that documentation h	to questions 2 thru 4, include documentation or entered has been previously submitted with this certificati	evidence ion form.
5. Is the site currently un	dergoing development?	
		Box 2 YES NO
Is the current site use Closed Landfill	consistent with the use(s) listed below?	× =
7. Are all ICs in place an	nd functioning as designed?	X =
IF THE ANSWE DO NOT C	ER TO EITHER QUESTION 6 OR 7 IS NO, sign and dat COMPLETE THE REST OF THIS FORM. Otherwise co	te below and ontinue.
A Corrective Measures W	ork Plan must be submitted along with this form to a	address these issues.
Signature of Owner, Remed	dial Party or Designated Representative	Date

SITE NO. 905024 Box 3

Description of Institutional Controls

Parcel

Owner

68.001-1-18

Cattaraugus County DPW

Institutional Control

Ground Water Use Restriction

Landuse Restriction

In accordance with the Operation & Maintenance, Environmental Monitoring Plan (August 1, 2001), the Record of Decision (March 31, 2002), and the Deed Restriction filed with the Cattaraugus County Clerk's Office on June 5, 2003, the following controls shall be maintained and certified, shall run with the land and be binding upon all future owners of the Property: Ground Water Use Restriction, Landuse Restriction, Cover System, Leachate Collection System.

68.003-1-1

Cattaraugus County DPW

Monitoring Plan O&M Plan

Ground Water Use Restriction

Landuse Restriction

In accordance with the Operation & Maintenance, Environmental Monitoring Plan (August 1, 2001), the Record of Decision (March 31, 2002), and the Deed Restriction filed with the Cattaraugus County Clerk's Office on June 5, 2003, the following controls shall be maintained and certified, shall run with the land and be binding upon all future owners of the Property: Ground Water Use Restriction, Landuse Restriction, Cover System, Leachate Collection System.

Box 4

Description of Engineering Controls

<u>Parcel</u>

Engineering Control

68.001-1-18

Cover System Leachate Collection

68.003-1-1

Cover System
Leachate Collection

Periodic Review Report (PRR) Certification Statements

1.	I certify	by	checking	"YES"	below	that:
----	-----------	----	----------	-------	-------	-------

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES NO



- 2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:
 - (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
 - (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
 - (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
 - (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
 - (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted	l along with this fo	orm to address	these issues.

Signature of Owner, Remedial Party or Designated Representative

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IC CERTIFICATIONS SITE NO. 905024

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

1 James C. Manzelk at	GII-401 Min St. S. t. 330	
print name	print business address	
am certifying as	Representative	_(Owner or Remedial Party)
for the Site named in the Site Details Section	on of this form.	2/11/23
Signature of Owner, Remedial Party, or De	signated Representative	Date
Rendering Certification		

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Tames (Manzella at F)	1. 403 Man St. Suite 330 B print business address	Halo NY 14203
am certifying as a Qualified Environmental Prof	fessional for the(Owner or Ren	
Signature of Qualified Environmental Profession the Owner or Remedial Party, Rendering Certification		2-16-23 Date

APPENDIX C - FIELD LOGS





Telephone: <u>716-366-8143</u>

Fax:

716-366-8092 enviroteknix@outlook.com

Email: <u>enviroteknix</u>
302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	II Landfi	l i			Samp	<u>le Point ID:</u>	SW-1
Field Perso	onnel:	CS\CS	·	-	. •	Sample	Matrix:	Surface Water
Comments	<u>:</u>		Upstream	at Dutch H	IiII Rd			
Monitorir	ng Well San	npling:		Date:	5/22/20	122	Time:	11:20
Sampling Meth					d: ()Y ()			/Temp: Cldy 73F
	Field Data			Depth to			4.5	,
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations	/Characteristics
	Celsius	Std Units	u/S	NTU	mV	mg/L		
							Muddy, & f	lowing over banks
	Parameter	s Sampled	For:		Level Or	ily		
Comments	••						· · · · · · · · · · · · · · · · · · ·	
Comment	•					· · · · · · · · · · · · · · · · · · ·		
								· · · · · · · · · · · · · · · · · · ·
				ENVIROT	EKNIX SITE	PROJECT I	MANAGER SIGN	IATURE
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Telephone: 716-366-8143 716-366-8092

Fax:

Email:

enviroteknix@outlook.com

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfil	ll .			Sampl	<u>le Point ID:</u>	SW-2
Field Perso	onnel:	cs/cs		.		Sample	Matrix:	Surface Water
Comments	<u>\$</u>		Adjacent t	o the site a	it Farwell B	Bridge		
<u>Monitorir</u>	ng Well San	/lethod:			5/22/202 I: ()Y ()N			11:35 emp: Cldy 72F
	Field Data Temp	рH	Conductivity	Depth to Y	ORP	D.O.	5.4	Characteristics
	Celsius		u/S	NTU	mV	mg/L	Observations/	Characteristics
						1118/ 2	High & Muc	ldy
	<u>Parameters</u>	s Sampled	For:		Level Onl	у .		
Comments	::		measured	at red arro	w on bridg	e.	······································	
			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
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Telephone: 716-366-8143 Fax: 716-366-8092

Email: enviroteknix@outlook.com

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	II Landti	II			Samp	le Point ID:	SW-3	
Field Perso	onnel:	cs/cs		_		Sample	Matrix:	Surface Water	
Comments:			Downstre	am at Keni	t Rd		· · · · · · · · · · · · · · · · · · ·		
<u>Monitorir</u>	ng Well San Sampling N			Date:	5/22/2022 d: ()Y ()N	2	Time:	11:45 emp: Cldy 72F	
	Field Data			_	Water: <u>10</u>		Treatier, remp. day 721		
	Temp Celsius	pH Std Units	Conductivity	Turbidity	ORP	D.O.	Observations	/Characteristics	
	Ceisius	Sta Onits	Umhos/cm	NTU		mg/L	Muddy & fa	nst	
	Parameter	s Sampled	For:		Level Only	,			
Comments	::		measured	at red mai	rk on bridge				
					<u> </u>		······································		
			·	ENVIROT	EKNIX SITE/P	ROJECT I	MANAGER SIGN	IATURE	
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Email: enviroteknix@outlook.com

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfi	I			Sample	Point ID:	MW-6
Field Perso	onnel:	CS/CS	· · · · · · · · · · · · · · · · · · ·	- ,	•	Sample I	Matrix:	Groundwater
Monitori	ng Well Ins	pection:		Date:	5/22/2022		Time:	18:20
	Condition	of Casing/I	Riser:					
				() Dama	ged () Flush	Mount		
	Condition			• •	•			
	(X) Good () Cracked	() None () Buried				
Purge Inf	ormation:		Date/Time	Started:			Riser Diame	eter:
			Date/Time				— (2" Conv. Fa	ctor = 0.163)
	Purge Met	hod:	-		d: ()Y ()N		 `	ector = 0.653)
	Surface Me	eas. Pt.:	(X) Casing	•			,	,
	Initial H2O	Level:			Depth, ft:	15	9 One Vol. Ga	ıls:
	Tot. Purge	d Gals:		•	Dryness: ()	Y () N	 (3x) Vol. Ga	is:
	Observatio	ns:	Overall:		Start:		Finish:	
Comment	<u>s:</u>			******				
				·				
Monitoria	ng Well San	npling:		Date:			Time:	
	Sampling N	/lethod:		Dedicate	d: ()Y ()N		 Weather/Te	emp:
	Field Data	1		Depth to	Water:			•
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics
	Celsius	Std Units	Umhos/cm	NTU		mg/L		
						6/ -	-	
			<u>. </u>	<u> </u>				
	<u>Parameter</u>	s Sampled	For:		Level Only			

Comment	s:							
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Fax:

<u>716-366-8092</u>

Email:

enviroteknix@outlook.com

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfi	I			Sample I	Point ID:	MW-9D
Field Perso	onnel:	CS/CS		- .	a ya <mark>•</mark>	Sample Ma	itrix:	Groundwater
<u>Monitorii</u>	ng Well Insp		Picor.	Date:	5/22/2022		Time:	18:35
	() Unlocke	ed (X) Goo of Seal:			ged () Flush	Mount		
Purge Info	ormation:		Date/Time	Started:			Riser Diame	eter:
Date/Tin			Date/Time	Ended:			(2" Conv. Fa	ictor = 0.163)
	Purge Met	hod:		<u>Dedicated</u>	l: ()Y ()N		(4" Conv. Fa	ictor = 0.653)
	Surface Me	as. Pt.:	(X) Casing	() Riser	ı			
	Initial H2O	Level:	53.5	Tot. Well Depth, ft: 80			One Vol. Ga	als:
	Tot. Purgeo	d Gals:		Purged to	Dryness: ()	Y () N	(3x) Vol. Gals:	
	Observatio	ns:	Overall:		Start:		Finish:	
Comments	<u>s:</u>						,	
								
Monitoria	ng Well San	onling:		Date:			Time:	
WOIIICOTT	Sampling N			ž.	l: ()Y ()N		Weather/To	
	Field Data	<u>1</u>		Depth to			weather/ i	emp.
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations /	Characteristics
	Celsius	Std Units	•	NTU		mg/L	O B S C I V G C I O I I S J	characteristics
	CCISICS	Sta Offics	Omnos/ cm	1	1.	1116/ L		
				İ				
	Parameter	s Sampled	For:		Level Only			
Comments	s:							
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Email: <u>enviroteknix@outlook.com</u>

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwel	l Landfil	l			Sample I	Point ID:	MW-10D
Field Perso	nnel:	CS/CS			4 1	Sample Ma	atrix:	Groundwater
Monitorin	g Well Insp Condition o () Unlocke Condition o (X) Good (of Casing/F d(X)Goo of Seal:	d () Loose		<u>5/22/2022</u> ged () Flush		Time:	19:00
Purge Information: Date/Time						Riser Diame	ter: ctor = 0.163)	
	Purge Method: Surface Meas. Pt.: (X) Casing Initial H2O Level: 38.3 Tot. Purged Gals:		Dedicated: ()Y ()N () Riser Tot. Well Depth, ft:		61 Y () N	(4" Conv. Factor = 0.653) 61 One Vol. Gals: (3x) Vol. Gals:		
Comments	=		Overall:		_Start:		Finish:	
Monitorin	g Well Sam Sampling M Field Data			Date: Dedicated: ()Y ()N Depth to Water:			Time: Weather/Te	emp:
	Temp Celsius	pH Std Units	Conductivity Umhos/cm	Turbidity NTU	ORP	D.O. mg/L	Observations/	Characteristics
	Parameters Sampled For:			Level Only				
Comments	:							
				ENVIROTE	KNIX SITE/PI	ROJECT MAI	NAGER SIGN	ATURE



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302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfil	I			Sample I	Point ID:	MW-10S
Field Perso	nnel:	CS/CS	······································	-		Sample Ma	itrix:	Groundwater
Monitorin	g Well Inst		Riser:	Date:	5/22/2022		Time:	19:05
				() Damas	ged () Flush	Mount		
	Condition of		- (/ 2000	(/ = =	, , , , , , , , , , , , , , , , , , , ,			
			() None () Buried				
Purge Info	rmation:		Date/Time	Started:		<u>.</u>	Riser Diame	ter:
	Date/Tim			Ended:		·	(2" Conv. Fa	ctor = 0.163)
	Purge Method:			Dedicated	l: ()Y ()N		(4" Conv. Fa	ctor = 0.653)
	Surface Meas. Pt.: (X) Casing				•			
	Initial H2O		32.2	Tot. Well		40	One Vol. Ga	ls:
	Tot. Purgeo			Purged to	Dryness: ()	<u>Y () N</u>	(3x) Vol. Gals:	
	Observatio	ns:	Overall:		_Start:		Finish:	
Comments	<u>:</u>						· · · · · · · · · · · · · · · · · · ·	
<u>Monitorir</u>	g Well San	npling:		Date:			Time:	
	Sampling N	<u>/lethod:</u>		Dedicated: ()Y ()N			Weather/Te	emp:
	Field Data			Depth to \	Water:			
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics
	Celsius	Std Units	Umhos/cm	NTU		mg/L		
			_		<u> </u>			
	<u>Parameters</u>	s Sampled	For:		Level Only			
								
Comments	:			·				
							····	
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Telephone: <u>716-366-8143</u> Fax: 716-366-8092

Email:

enviroteknix@outlook.com 302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfil	I			Sample I	Point ID:	MW-11D
Field Perso	onnel:	CS/CS		-		Sample Ma	itrix:	Groundwater
<u>Monitorir</u>	ng Well Insp			Date:	5/22/2022		Time:	19:20
	Condition of							
			d () Loose	() Damag	ed () Flush	Mount		
	Condition of							
	(X) Good () Cracked	()None () Buried				
Purge Info	ormation:		Date/Time	Started:			Riser Diame	ter:
	Da			Ended:			(2" Conv. Fa	ctor = 0.163)
	Purge Met	hod:		Dedicated	: ()Y ()N		(4" Conv. Fa	ctor = 0.653)
	Surface Me	eas. Pt.:	(X) Casing	() Riser				
	Initial H2O	Level:	46.3	Tot. Well I	Depth, ft:	88.9	One Vol. Ga	ls:
	Tot. Purgeo	d Gals:		Purged to	Dryness: ()	Y () N	(3x) Vol. Gal	ls:
	Observatio	ns:	Overall:	-	Start:		Finish:	
Comments	<u>::</u>				_		'	
Monitorir	ng Well San	onling		Date			Time:	
IVIOITICOTII	Sampling N			Date:	: ()Y ()N		Weather/Te	
	Field Data	<u>netiiou.</u> 1		Depth to V			weather/ re	:mp:
	Temp	рH	Conductivity	Turbidity	ORP	D.O.	Observations/	Charactoristics
	Celsius	Std Units	Umhos/cm	NTU		İ	Observations/	Characteristics
	Ceisius	ota offics	Omnos/cm	NIO	<u> </u>	mg/L		
	<u>Parameter</u>	s Sampled	For:		Level Only			
Comments	s:							and the state of t
				ENVIROTE	KNIX SITE/PI	ROJECT MAI	NAGER SIGNA	ATURE
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Telephone: 716-366-8143 Fax: 716-366-8092

Email:

enviroteknix@outlook.com **302 Lakeshore Drive East**

Dunkirk, New York USA 14048

Facility:	Farwell Landfill				Sample Point ID:		MW-11S		
Field Perso	nnel:	cs/cs		-		Sample Ma	atrix:	Groundwate	er
Monitorin	g Well Inst		Riser:	Date:	5/22/2022	· · · · · · · · · · · · · · · · · · ·	Time:		19:15
	() Unlocke Condition of (X) Good (of Seal:			ged () Flush	Mount			
Purge Info	ormation:		Date/Time	Started:			Riser Diame	eter:	
			Date/Time	Ended:			(2" Conv. Fa	ctor = 0.163)	
	Purge Metl	nod:		<u>Dedicated</u>	l: ()Y ()N		(4" Conv. Fa	ctor = 0.653)	
	Surface Me	as. Pt.:	(X) Casing	() Riser	•				
				Tot. Well	Depth, ft:	46.9	One Vol. Gals:		
	Tot. Purged Gals:			Purged to Dryness: () Y () N			(3x) Vol. Gals:		
	Observations: Overall:				Start:		Finish:		
Monitoria	ng Well San Sampling N Field Data			Date: Dedicated	l: ()Y ()N Water:		Time: Weather/Te	emp:	
	Temp	рH	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics	
	Celsius	Std Units	Umhos/cm	NTU		mg/L			
							. "		
	<u>Parameter</u>	s Sampled	For:		Level Only		***************************************		
Comments	:								
	- 1			ENVIROTE	EKNIX SITE/PI		NAGER SIGN	ATURE	



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Email: <u>enviroteknix@outlook.com</u>

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfil	ŀ			Sample I	Point ID:	MW-13D	
Field Perso	nnel:	cs/cs		-		Sample Ma	trix:	Groundwater	
<u>Monitorin</u>	g Well Inst			Date:	5/22/2022		Time:	18:50	
	Condition of	of Casing/F	<u>Riser:</u>						
	() Unlocke	d (X) Goo	d () Loose	() Damag	ged () Flush	Mount			
	Condition of	of Seal:							
	(X) Good() Cracked	() None () Buried					
Purge Info	rmation:		Date/Time	Started:			Riser Diame	eter:	
			Date/Time	Ended:			(2" Conv. Fa	actor = 0.163)	
	Purge Metl	<u>nod:</u>		<u>Dedicated</u>	: ()Y ()N	·	(4" Conv. Fa	actor = 0.653)	
	Surface Me	as. Pt.:	(X) Casing	() Riser	• •				
	Initial H2O	<u>Level:</u>	96.4	Tot. Well	Depth, ft:	103.9	03.9 One Vol. Gals:		
Tot. Purged Gals:				Purged to	Dryness: ()	Y () N	(<u>) N</u> (3x) Vol. Gals:		
Observations:			Overall:		Start:		Finish:		
Comments	<u>:</u>						,		
		******			·····				
Monitorin	g Well San	npling:		Date:			Time:		
,	Sampling N	<u>lethod:</u>		<u>Dedicated</u>	l: ()Y ()N		Weather/Te	emp:	
	Field Data			Depth to	Water:				
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics	
	Celsius	Std Units	Umhos/cm	NTU		mg/L			
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	<u>Parameters</u>	s Sampled	For:		Level Only				
				 					
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Comments				- ,					
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Telephone: 716-366-8143

Fax:

716-366-8092

Email:

enviroteknix@outlook.con

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfil	I			Sample I	Point ID: MW-18D		
Field Perso	onnel:	cs/cs		- 		Sample Ma	itrix:	Groundwater	
Monitorin	ng Well Ins Condition	of Casing/R		Date:	5/22/2022		Time:	11:30	
	Condition	of Seal:	d () Loose		ged () Flush M	ount			
Purge Info	ormation:		Date/Time	Started:			Riser Diam	neter: 2	
			Date/Time				(2" Conv. F	actor = 0.163)	
	Purge Met	hod:	•		i: ()Y (X)N			actor = 0.653)	
	Surface Me	eas. Pt.:	() Casing	() Riser			•	•	
	Initial H2O	Level:	11.4	Tot. Well	Depth, ft:	28.9	One Vol. 6	ials:	
	Tot. Purged Gals:				Purged to Dryness: () Y () N			als:	
	Observations: Overall:				Start:		Finish:		
Comments:							•		
			Depth Me	asurement	t Only				
Monitorin	ng Well Sar	npling:		Date:			Time:		
	Sampling N	<u>/lethod:</u>		<u>Dedicated</u>	l: ()Y ()N		Weather/Temp:		
	Field Data			Depth to	Water:				
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observation	s/Characteristics	
	Celsius	Std Units	u/S	NTU	mV	mg/L		•	
	<u>Parameter</u>	s Sampled	For:		Level Only			,	
Comments	:								
				ENVIROTE	KNIX SITE/PRO		GER SIGNA	TURE	
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Telephone: <u>716-366-8143</u>

Fax:

716-366-8092

Email:

enviroteknix@outlook.con

302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Facility: Farwell Landfill				·	Sample !	Point ID:	MW-18S	
Field Perso	onnel:	cs/cs		-		Sample Ma	itrix:	Groundwater	
Monitorin	(X) Unlock Condition	of Casing/l ced (X) Goo of Seal:			5/22/2022 ged () Flush Mo		Time:	11:35	
Purge Info			Date/Time	Started:			Riser Diam	neter: 2 Factor = 0.163)	
	Initial H2O Level: 1: Tot. Purged Gals:			Dedicated () Rised Tot. Well	-	114 8	• *	actor = 0.653)	
	Tot. Purged Gals: Observations: Overall:			_	Dryness: () Y Start:		(3x) Vol. Gals:Finish:		
Comments			Depth Me	asuremen	t Only		•		
<u>Monitorir</u>	Sampling Field Data	Method:		Date: <u>Dedicated</u> Depth to	d: ()Y ()N Water:		Time: Weather/	 Гетр:	
	Temp Celsius	pH Std Units	Conductivity u/S	Turbidity NTU	ORP mV	D.O. mg/L	Observations	s/Characteristics	
Parameters Sampled For:					Level Only				
Comments	:								
				ENVIROTI	EKNIX SITE/PRO	JECT MANA	GER SIGNA	TURE	



Telephone: <u>716-366-8143</u> Fax: <u>716-366-8092</u>

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302 Lakeshore Drive East

Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfi	II			<u>Sample</u>	Point ID:	MW-19	
Field Perso	onnel:	CS/CS		_		Sample Ma	atrix:	Groundwater	
<u>Monitorii</u>	ng Well Ins		Riser:	Date:	5/22/2022	. ·	Time:	19:30	
	() Unlocked	ed (X) Goo of Seal:		• •	aged () Flush	n Mount	Riser is beni	though.	
Purge Infe	ormation:		Date/Time	e Started:			Riser Diame	eter: 2"	
			Date/Time				-	ector = 0.163)	
	Purge Met	hod:	=		d: (X)Y ()N	·····	- '	ector = 0.653)	
	Surface Me		(X) Casing				,	,	
	Initial H2O	Level:			Depth, ft:	121.9	One Vol. Ga	ils:	
	Tot. Purged Gals:			_	Dryness: ()	Y () N	_ (3x) Vol. Gals:		
	Observations: Overall:				Start:		Finish:		
Comment	<u>s:</u>					**	•		

	!!								
Monitorii	ng Well San			Date:			Time:	 	
	Sampling N	-			d: ()Y ()N		Weather/T	emp:	
	Field Data			Depth to	Water:				
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics	
	Celsius	Std Units	u/S	NTU	mV	mg/L			
							Ì		
							<u> </u>		
	<u>Parameter</u>	s Sampled	For:		Level Only				
Comment	s:								
				ENVIROT	EKNIX SITE/P			ATURE	
						Lto M	15	· · · · · · · · · · · · · · · · · · ·	



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Facility:	Farwe	ll Landfi	II		,	Sample	e Point ID:	MW-20	
Field Perso	onnel:	cs/cs	-	-		Sample I	Matrix:	Groundwat	er
Monitori	ng Well Insp	ection:		Date:	5/22/2022		Time:		19:40
	Condition of	of Casing/	Riser:						
	() Unlocke	d (X) God	d () Loose	e () Dama	iged () Flush	Mount			
	Condition	of Seal:							
	(X) Good () Cracked	()None	() Buried		,			
Purge Info	ormation:		Date/Time	e Started:			Riser Diamo	eter: 2"	
			Date/Time					actor = 0.163)	
	Purge Metl	hod:			d: ()Y ()N		(4" Conv. Factor = 0.165)		
	Surface Me		(X) Casing	() Rise			(, ,	,	
	Initial H2O				Depth, ft:	1	.50 One Vol. G	als:	
	Tot. Purged Gals:			_	Dryness: ()				
	Observations: O			_	Start:		Finish:		
Comment	<u>s:</u>								

Monitori	ng Well San	npling:		Date:			Time:		
	Sampling N	<u>lethod:</u>		<u>Dedicate</u>	d: ()Y ()N		Weather/T	emp:	
	Field Data	1		Depth to				-	
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations	/Characteristics	
	Celsius	Std Units	Umhos/cm	NTU	mV	mg/L			
	<u>Parameters</u>	<u>Sampled</u>	For:		Level Only				
Comments	5:								
								···-	
				5NN // D C =					
				ENVIROT	EKNIX SITE/P	OJECT M	IANAGER SIGN	ATURE	



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Facility:	Farwel	l Landfil	I			Sample I	Point ID:	MW-24	
Field Perso	nnel:	cs/cs		-		Sample Ma	itrix:	Groundwater	
Monitorin	g Well Insp Condition o () Unlocke Condition o (X) Good (of Casing/F d (X) Goo of Seal:	d () Loose		5/22/2022 ed () Flush N		Time:	19:	<u>50</u>
Purge Info	ormation:		Date/Time				Riser Diame	ter: <u>2"</u> ctor = 0.163)	
	Purge Meth Surface Me		(X) Casing	Dedicated	Tubing: ()Y	<u>()N</u>		ctor = 0.653)	
	Initial H2O Level: Tot. Purged Gals: Observations: Over			Tot. Well I			54 One Vol. Gals: (3x) Vol. Gals: Finish:		
Comments	<u>:</u> ng Well Sam	npling:		Date:	-		Time:		
	Sampling M Field Data			Dedicated Depth to \	: ()Y ()N Water:	, although the stand	Weather/Te	emp:	
	Temp Celsius	pH Std Units	Conductivity u/S	Turbidity NTU	ORP mV	D.O. mg/L	Observations/	Characteristics	
Parameters Sampled For:					Level Only				_
Comments	:		***************************************						
				ENVIROTE	KNIX SITE/PR	OJECT MAN		TURE	_ _



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Facility:	Farwe	ll Landfil	I			Sample I	Point ID:	MW-25
Field Perso	nnel:	CS/CS		-		Sample Ma	itrix:	Groundwater
<u>Monitorir</u>	ng Well Insp		Riser:	Date:	5/22/2022		Time:	20:00
			d () Loose	() Damag	ged () Flush	Mount		
	Condition (X) Good (()None () Buried				
Purge Info	ormation:		Date/Time	Started:			Riser Diame	ter: <u>2"</u>
			Date/Time				. *	ctor = 0.163)
	Purge Metl			-	Tubing: ()Y	()N	(4" Conv. Fa	ctor = 0.653)
	Surface Me		(X) Casing					
	Initial H2O		16.5	Tot. Well I			One Vol. Ga	
	Tot. Purged Gals: Observations: O			Purged to	Dryness: ()	<u>Y (</u>		
_					_Start:		Finish:	
Comments	<u>:</u>							
				1 4			*1	
Monitorir	ng Well San	npling:		Date:			Time:	
	Sampling N			Dedicated: ()Y ()N			Weather/Te	emp:
	Field Data	1		Depth to \				
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics
	Celsius	Std Units	u/S	NTU	mV	mg/L		
	<u>Parameters</u>	s Sampled	For:		Level Only			
Comments	::		· · · · · · · · · · · · · · · · · · ·	 				
				ENVIROTE	KNIX SITE/PI	ROJECT MAI	NAGER SIGN	ATURE
					(() =	PHIMS	Saule:	
						7-02-02		<u> </u>



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Facility:	Farwel	ll Landfil	l			<u>Sample</u>	Point ID:	L-1	
Field Perso	nnel:	CS\CS		<u>-</u>		Sample Ma	atrix:	Leachate	
Leachate '	Tank Inspe	ction:		Date:	5/23/2022		Time:		14:30
	Condition o		liser:				=		, · · ·
			d () Loose	(X) Damag	ed()Flush N	Jount			
	Condition of								
_	(X) Good () Cracked	() None () Buried					
Comments	<u>:</u>		· . ·						
Leachate :	Sampling:			Date:	5/23/2022		Time:		14:30
	Sampling N	lethod:	Bailer	Dedicated:			- Weather/Tem	p: Pt Sun 55F	,
	Field Data			-	-				
	Temp	рН	Conductivity	Turbidity	ORP	D.O	Observations/	/Characteristics	
	Celsius	Std Units	mS	NTU		mg/L			
	9.5	7.67	3.16	119	127	2.2	Lt. Brown T	urbid	
	Parameters	Sampled	For:		Expanded Pa	rameters Se	et		
Comments	:						22		
				ENVIROTE	KNIX SITE/PR	OJECT MAN	AGER SIGNA	ATURE	
					Costh	M.Sn	un.		



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Facility:	<u>ty:</u> Farwell Landfill				Sample Point ID:		MW-14s		
Field Perso	nnel:	cs/cs				Sample Matrix:		Groundwater	
Monitorin	Mell Insp Condition o () Unlocked Condition o (X) Good (f Casing/R d (X) Good f Seal:	d () Loose	, .	5/22/2022 ed () Flush N	, , , , , , , , , , , , , , , , , , , ,	Time:		16:45
Purge Info	ormation:		Date/Time		16:45 17:00		Riser Diameter: 2"		
Purge Method: Bailer Surface Meas. Pt.: (X) Casing Initial H2O Level: 49.7			Dedicated () Riser Tot. Well D	Tubing: (X)Y	(<u>)N</u> 60.8	(2" Conv. Factor = 0.163) (4" Conv. Factor = 0.653) 60.8 One Vol. Gals: 1.8 (3x) Vol. Gals: 5.4 Finish: Clear			
	-			7.1.111.11.11.11.11.11.11.11.11.11.11.11			•		
<u>Monitorir</u>	ng Well Sam Sampling M Field Data		Bailer	Date: 5/23/2022 Dedicated: (X)Y ()N Depth to Water: 49.9			Time: Weather/Te	emp: Sun 57F	13:45
	Temp Celsius	pH Std Units	Conductivity u/S	Turbidity NTU	ORP mV	D.O. mg/L	Observations/	Characteristics	
	7.8	7.65	963	57.4	122		Clear/Lt Bro	wn	
Parameters Sampled For:					Baseline VOC	Cs .			
Comments	:								
				ENVIROTE!	(NIX SITE/PRO	OJECT MAN	AGER SIGNA	TURE	



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Facility:	Farwe	ll Landfi	II	•		Sample F	oint ID:	MW-14i	
Field Perso	nnel:	cs/cs		-		Sample Ma	trix:	Groundwate	er
<u>Monitorir</u>	ng Well Inst	pection:		Date:	5/22/2022	* .	Time:		16:50
	Condition of	of Casing/F	Riser:					·	
	() Unlocke	d (X) Goo	d () Loose	() Damag	ged () Flush I	Mount			
	Condition	of Seal:							
	(X) Good () Cracked	() None () Buried					
Purge Info	ormation:		Date/Time	Started:	16:50	l	Riser Diam	eter: 2"	
			Date/Time		17:05			actor = 0.163)	
	Purge Meti	hod:	Pump		: (X)Y ()N		_ `	actor = 0.653)	
	Surface Me			() Riser			(. 55 46.6. 5.655)		
	Initial H2O			Tot. Well I		85.1	1 One Vol. Gals: 5.6		
	Tot. Purged Gals: 17			-	Dryness: () Y		(3x) Vol. Gals: <u>16.9</u>		
	Observations: Overall:			Clear	Start:	Clear/Lt Gray	Finish:	Clear/Lt Gray	
Comments	Observations: Overall: omments:				_				
	-			······		•			· · · · · · · · · · · · · · · · · · ·
			<u>-</u>						11
<u>Monitorir</u>	ng Well San			Date:	5/23/2022		_Time:		13:30
	Sampling N	<u>/lethod:</u>	Bailer	Dedicated	:(X)Y ()N		Weather/T	emp: Sun 57F	
	Field Data			Depth to \	Water: <u>50.2</u>				
	Temp	рH	Conductivity	Turbidity	ORP	D.O.	Observations	/Characteristics	
	Celsius	Std Units	u/S	NTU	mV	mg/L			
	7.2	7.93	1127	6.3	142	4.1	Clear		
		 					<i>k</i>		
	Parameters	s Sampled	For:		Baseline VO	Cs			
								· · · · · · · · · · · · · · · · · · ·	
Comments	;:								
			· · · · · · · · · · · · · · · · · · ·	ENVIROTE	KNIX SITE/PR	OJECT MANA	AGER SIGNA	TURE	
					Part				



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Dunkirk, New York USA 14048

Facility:	Farwel	ll Landfil	1			<u>Sample</u>	Point ID:	MW-15s	
Field Perso	nnel:	CS/CS		-		Sample Ma	atrix:	Groundwate	:r
Monitorin	g Well Ins	pection:		Date:	5/22/2022		Time:		16:05
	Condition of		Riser:		,,				10.03
				() Damage	ed () Flush N	Mount			
	Condition of		(,	(/ Damag		nount			
	(X) Good (() None () Buried					
Purge Info	rmation:		Date/Time	Started:	16:05		Riser Diame	eter: 2"	
			Date/Time	Ended:	16:20			actor = 0.163)	
	Purge Meth	nod:	Pump	Dedicated:	(X)Y ()N	•	actor = 0.653)		
	Surface Me	as. Pt.:	(X) Casing	•		•	•		
	Initial H2O	Level:		Tot. Well	Pepth, ft:	50.4	4 One Vol. Gals: 5.1		
	Tot. Purgeo	l Gals:		•	Dryness: () Y		(3x) Vol. Gals: <u>15.3</u>		
	Observations: Overall:				Start:	Clear	Finish:	Clear	
Comments	<u>.</u>			-	-		=		
				,				·	
Monitorin	g Well San	npling:		Date:	5/23/2022		Time:		13:00
_	Sampling M	<u>lethod:</u>	Bailer	Dedicated:	(X)Y ()N		Weather/To	emp: <u>Sun 60F</u>	
	Field Data	1		Depth to V	Vater: 19.5				
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations/Characteristics		
	Celsius	Std Units	u/S	NTU	mV	mg/L			
	3.9	8.05	533	9.6	116		Clear		
	Parameters	Sampled	For:		Baseline VOC	Cs .			
Comments	:		Piezomete	r #15 depth	to water was	18.7 at 15:0)5.		
				ENVIROTE	KNIX SITE/PRO			ATURE	
				1	anth.	W/2 Si	71		



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Facility:	Farwel	l Landfil	I			<u>Sample</u>	Point ID:	MW-15i	
Field Perso	nnel:	CS/CS		• .		Sample Ma	atrix:	Groundwate	r
Monitorin	ng Well Insp	ection:		Date:	5/22/2022		Time:		15:05
	Condition of		liser:			· · · · · · · · · · · · · · · · · · ·			
				() Damage	ed () Flush N	/lount			
	Condition of			.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	(X) Good () Cracked	() None () Buried					
Purge Info	ormation:		Date/Time	Started:	15:05		Riser Diame	eter: 4"	
			Date/Time	Ended:	16:05		•	ctor = 0.163)	
	Purge Meth	nod:	Pump	Dedicated	Tubing: (X)Y	()N	• '	ctor = 0.653)	
	Surface Me	as. Pt.:	(X) Casing	() Riser					
	Initial H2O	<u>Level:</u>	19.8	Tot. Well [Depth, ft:	82.4	One Vol. Ga	ls: 40.9	
	Tot. Purgeo	l Gals:	123	Purged to	Dryness: () Y	(X) ⁻ N	(3x) Vol. Ga	ls: 122.6	
	Observatio	ns:	Overall:	Clear	Start:	Clear	Finish:	Clear	
Comments	<u>::</u>						<u>-</u>		
<u>Monitorir</u>	ng Well San			Date:	5/23/2022		Time:	<u></u>	13:15
	Sampling N	<u>lethod:</u>	Bailer	<u>Dedicated</u> :			Weather/Te	emp: Sun 59F	
	Field Data			Depth to V	Vater: <u>20.2</u>				
	Temp	рH	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics	
	Celsius	Std Units	u/S	NTU	mV	mg/L			
	3.3	7.91	468	2.7	118	5.3	Clear		
•						<u>L</u>	<u> </u>		
	<u>Parameters</u>	Sampled	For:		Baseline VOC	Cs			
					MS/MSD take	en here.			
									
Comments	:								
				ENVIROTE	KNIX SITE/PR	OJECT MAN	AGER SIGNA	TURE	
					(want ha	21/ Cu	h		



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<u>Facility:</u> Farwell Landfil	1			Sample I	Point ID:	MW-16s	
Field Personnel: CS/CS				Sample Ma	atrix:	Groundwate	<u>r</u>
Monitoring Well Inspection: Condition of Casing/R () Unlocked (X) Good Condition of Seal:		Date:	5/22/2022 ed () Flush M		Time:	1.1	12:45
(X) Good () Cracked	() None () Buried					
Purge Information: Date/Time Date/Time		· · · · · · · · · · · · · · · · · · ·		_Riser Diameter: <u>2"</u> (2" Conv. Factor = 0.163)			
<u>Purge Method:</u> <u>Surface Meas. Pt.:</u> Initial H2O Level:	(X) Casing		-	20.1	•	ctor = 0.653)	
Tot. Purged Gals: Observations:		Tot. Well Depth, ft: 30.1 Purged to Dryness: () Y (X) N Clear Start: Clear/Cldy			One Vol. Ga (3x) Vol. Ga Finish:	' <u></u>	
Comments:					***************************************		
Monitoring Well Sampling:		Date:	5/23/2022		Time:		12:35
Sampling Method: Field Data	Bailer	Dedicated: (X)Y ()N Depth to Water: 16.4		Weather/		emp: Sun 57F	
Temp pH Celsius Std Units	· ·	Turbidity NTU	ORP mV	D.O. mg/L	Observations/	Characteristics	
3.9 7.69	698	4.9			Clear		
Parameters Sampled	For:		Baseline VOC				
		····	Dup Y taken	here.			
Comments:							·
		ENVIROTE	(NIX SITE/PRO		AGER SIGNA	TURE	



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Facility:	Farwel	l Landfil	l			Sample I	Point ID:	MW-16i		
Field Perso	onnel:	CS/CS		•		Sample Ma	ntrix:	Groundwate	<u>r</u>	
Monitorin	Condition of the Condit	of Casing/R d (X) Good of Seal:	d () Loose		5/22/2022 ed () Flush M		Time:		13:00	
Purge Info	ormation:		Date/Time	Started:	13:00		Riser Diame	eter: 4"		
			Date/Time	Ended:				ctor = 0.163)		
	Purge Meth	<u>nod:</u>	Pump	Dedicated	Tubing: (X)Y	<u>()N</u>	(4" Conv. Fa	ctor = 0.653)		
	Surface Me	as. Pt.:	(X) Casing	() Riser						
			Tot. Well D	epth, ft:	93.5	93.5 One Vol. Gals: 50.1				
	Tot. Purged	l Gals:	150	Purged to I	Oryness: () Y	(X) N	(3x) Vol. Ga	ls: <u>150.3</u>		
	<u>Observation</u>	ns:	Overall:	Clear	Start:	Clear	Finish:	Clear		
<u>Monitorir</u>	ng Well Sam Sampling M Field Data		Bailer	Date: Dedicated: Depth to W			Time: Weather/Te	emp: Sun 57F	12:45	
	Temp	Hq	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics		
	Celsius	Std Units	u/S	NTU	mV	mg/L	0000, 100,010,		-	
	2.2						Clear			
	<u>Parameters</u>	Sampled	For:	***************************************	Baseline VOC	Cs				
Comments	:									
				ENVIROTE	(NIX SITE/PR	OJECT MAN	AGER SIGNA	TURE		



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Facility:	Farwel	l Landfil	I			Sample I	Point ID:	MW-17s	
Field Perso	onnel:	CS/CS				Sample Ma	atrix:	Groundwate	<u>r</u>
Monitorin	ng Well Insp Condition o () Unlocked Condition o (X) Good (f Casing/R d (X) Goo f Seal:	d () Loose		5/22/2022 ed () Flush N		Time:		11:50
Purge Info	ormation:		Date/Time	Started:	11:50		Riser Diame	eter: <u>2"</u>	
			Date/Time	Ended:	12:05		(2" Conv. Fa	ctor = 0.163)	
	Purge Meth	od:	Pump	Dedicated	Tubing: (X)Y	<u>()N</u>	 (4" Conv. Fa	ctor = 0.653)	
	Surface Me	as. Pt.:	(X) Casing	() Riser					
	Initial H2O	<u>Level:</u>	16.8	Tot. Well D	epth, ft:	43.1	One Vol. Ga	ls: 4.3	
	Tot. Purged	Gals:	13	Purged to I	Dryness: (X) Y	<u>() N</u>	(3x) Vol. Ga	ls: <u>12.9</u>	
	Observation	ns:	Overall:	Clear/Cldy	Start:	Clear	Finish:	Clear	
<u>Monitorir</u>	ng Well Sam Sampling M Field Data		Bailer	Date: <u>Dedicated:</u> Depth to V	5/23/2022 (X)Y ()N Vater: <u>16.6</u>		Time: Weather/Te	emp: Sun 56F	12:15
	Temp	рН	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics	
			u/S	NTU	mV	mg/L			
	3.3 Parameters	7.35		3.9	122 Baseline VOC		Clear		
							<u> </u>		
Comments	:			ENVIROTE	KNIX SITE/PR	OIFCT MAN	AGER SIGNA	TURE	
						2//5			



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Facility:	Farwel	l Landfil	I			<u>Sample</u>	Point ID:	MW-17i	
Field Perso	onnel:	cs/cs		•		Sample Ma	atrix:	Groundwate	e r
<u>Monitorii</u>	ng Well Insp	ection:		Date:	5/22/2022	 !	Time:		12:10
	Condition o	of Casing/F	<u>liser:</u>				•		
	() unlocke	d (X) Good	d () Loose	() Damag	ed () Flush N	Nount			
	Condition o	of Seal:							
	(X) Good () Cracked	() None () Buried					
Purge Info	ormation:		Date/Time		12:10		Riser Diame		
			Date/Time		12:30		• *	ctor = 0.163)	
	Purge Meth		Pump	•	Tubing: (X)Y	()N	(4" Conv. Fa	ctor = 0.653)	
	Surface Me		(X) Casing						
	Initial H2O			Tot. Well			One Vol. Ga		
	Tot. Purgeo		40	Purged to	Dryness: () \	/ (X) N	(3x) Vol. Ga	ls: 40	
Observations:		Overall:	Clear	_Start:	Clear	Finish:	Clear		
Comments	<u>:</u>							· · · · · · · · · · · · · · · · · · ·	
			·····						
Monitorii	ng Well San	npling:		Date:	5/23/2022	•	Time:		12:25
	Sampling N		Bailer				Weather/Temp: Sun		
	Field Data	<u> </u>			Water: 18.1				
	Temp	рH	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics	
	Celsius	Std Units	u/S	NTU	mV	mg/L			
	4.4	7.45		<u> </u>			Clear		
]	,]	Ì		1	Cicai		
	L						.		
	Parameters	Sampled	For:		Baseline VO	Cs			
								· · · · · · · · · · · · · · · · · · ·	
,									
Comments	: :								
									
		- 14.				· , , , , , , , , , , , , , , , , , , ,			
				ENVIROTE	KNIX SITE/PR	OJECT MAN	AGER SIGNA	ATURE	
					(Pada				



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302 Lakeshore Drive East Dunkirk, New York USA 14048

Facility:	Farwel	ll Landfil	I	·		Sample !	Point ID:	MW-21	
Field Perso	onnel:	CS/CS	·····	-		Sample Ma	atrix:	Groundwate	r
<u>Monitorii</u>	ng Well Insp Condition o	of Casing/F		Date:	5/22/2022 ed () Flush N	·	Time:	· · · · · · · · · · · · · · · · ·	17:20
	Condition of	of Seal:	() None (_	ea () riusn n	nount			
Purge Info	ormation:		Date/Time	Started:	17:20	ı	Riser Diame	eter: 2"	
			Date/Time	Ended:	17:45			actor = 0.163)	
	Purge Met	nod: Pumi	<u> </u>	Dedicated	Tubing: (X)Y	()N	-	actor = 0.653)	
	Surface Me	as. Pt.:	(X) Casing	() Riser			•	•	
				Tot. Well [epth, ft:	123	23 One Vol. Gals: 12.3		
					Dryness: () Y	·	(3x) Vol. Ga		
	Observations: Overall:			Clear	Start:	Clear	Finish:	Clear	
<u>Monitorii</u>	ng Well San Sampling M		Bailer	Date:			Time: Weather/T	emp: Sun 55F	14:05
			I		Vater: <u>47.7</u>	I	I.E.		
	Temp	рH	Conductivity	Turbidity	ORP	D.O.	Observations/	Characteristics	
	Celsius 3.9		u/s 998	NTU 1.3	mV 113	mg/L 4	Clear		
	<u>Parameters</u>	Sampled	For:		Baseline VOC	Cs		to the transfer to the second or the second	······································
Comments	5:								
				ENVIROTE	KNIX SITE/PR		AGER SIGNA	ATURE	



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Dunkirk, New York USA 14048

Facility:	Farwel	l Landfil	I			Sample I	Point ID:	MW-22	
Field Perso	onnel:	cs/cs				Sample Ma	atrix:	Groundwate	r
<u>Monitorir</u>	ng Well Insp Condition o	of Casing/R		Date:	5/22/2022	· · · · · · · · · · · · · · · · · · ·	Time:		17:20
	() Unlocke Condition o (X) Good (f Seal:			ed () Flush N	/lount			
Purge Info	ormation:		Date/Time		17:20	0 Riser Diameter: <u>2"</u>			
			Date/Time	Ended:	17:35		(2" Conv. Fa	ctor = 0.163)	
	Purge Meth		Pump		Tubing: (X)Y	<u>()N</u>	(4" Conv. Fa	ctor = 0.653)	
	Surface Me	<u>as. Pt.:</u>	(X) Casing	() Riser					
	Initial H2O			Tot. Well D			One Vol. Ga	ls: <u>7.4</u>	
	Tot. Purged	l Gals:	22	Purged to	Dryness: () Y	(X) N	(3x) Vol. Ga	ls: <u>22.1</u>	
	<u>Observation</u>	ns:	Overall:	Clear	Start:	Clear	Finish:	Clear	
<u>Comments</u> <u>Monitorir</u>	ng Well Sam Sampling M		Bailer	Date: Dedicated: Depth to V			Time: Weather/Te	emp: Sun 55F	14:15
		n Ll	G 4 1. 15	,		I	a		
	Temp Celsius	pH Std Units	Conductivity	Turbidity NTU	ORP	D.O.	Observations/	Characteristics	
	2.2		u/s 248		mV 85	mg/L 5.4	Clear		
	Parameters	Sampled	For:		Baseline VOC	Cs			
Comments	:								
				ENVIROTE	KNIX SITE/PR	OJECT MAN	AGER SIGNA	TURE	



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Facility:	Farwe	ll Landfil	I			Sample	Point ID:	MW-23
Field Perso	onnel:	cs/cs		-		Sample Ma	atrix:	Groundwater
Monitorin	ng Well Insp			Date:	5/22/2022		Time:	14:35
	Condition of							Pouring Rain!
			d () Loose	() Damag	ged () Flush I	Mount		
	Condition of							
	(X) Good () Cracked	() None () Buried				
Purge Info	ormation:		Date/Time	Started:	14:35	i	Riser Diam	eter: <u>2"</u>
			Date/Time	Ended:	15:00		(2" Conv. Fa	actor = 0.163)
	Purge Method: Pump			<u>Dedicated</u>	Tubing: (X) Y	()N	_ (4" Conv. Fa	actor = 0.653)
	Surface Meas. Pt.: (X) Casing			() Riser				
				Tot. Well	Depth, ft:	54.1	One Vol. G	als: <u>7.2</u>
	Tot. Purged Gals: 21			Purged to	Dryness: () Y	(X) N	(3x) Vol. Ga	ols: <u>21.7</u>
	Observatio	ns:	Overall:	Clear	_Start:	Clear	Finish:	Clear
<u>Monitorir</u>	ng Well San Sampling M		Bailer	-	5/23/2022 : (X)Y ()N		Time: Weather/T	12:00 emp: Sun 55F
					Water: 9.8	T		
	Temp	pH	Conductivity	Turbidity	ORP	D.O.	Observations,	/Characteristics
	Celsius 1.1	Std Units 6.85	u/s 160	NTU 1	mV	mg/L 6.1	Clear	
	Parameters	Sampled	For:		Baseline VO	Cs	· · · · · · · · · · · · · · · · · · ·	
Comments	:							
		<u> </u>		ENVIROTE	KNIX SITE/PR	OJECT MAN	AGER SIGNA	ATURE

APPENDIX D - LABORATORY ANALYTICAL REPORTS





Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-198235-1

Client Project/Site: Farwell Landfill - GW Baseline Volatiles

Sampling Event: FARWELL GW BASELINE Voas

For:

Cattaraugus County 8810 Route 242 Little Valley, New York 14755

Attn: Austin Kimes

Authorized for release by: 6/10/2022 11:36:51 AM

Ryan VanDette, Project Manager II

(716)504-9830

Ryan.VanDette@et.eurofinsus.com

..... Links

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Cattaraugus County

Project/Site: Farwell Landfill - GW Baseline Volatiles

Job ID: 480-198235-1

Job ID: 480-198235-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-198235-1

Comments

No additional comments.

Receipt

The samples were received on 5/23/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-628185 recovered outside acceptance criteria, low biased, for 4-Methyl-2-pentanone. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data are reported. The associated samples are impacted: Trip Blank (480-198235-1), DUP Y (480-198235-2), MW-14I (480-198235-3), MW-14S (480-198235-4), MW-15I (480-198235-5), MW-15S (480-198235-6), MW-16I (480-198235-7), MW-16S (480-198235-8), MW-17I (480-198235-9), MW-17S (480-198235-10), MW-21 (480-198235-11), MW-22 (480-198235-12) and MW-23 (480-198235-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Cattaraugus County

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: Trip Blank	Lab Sample ID: 480-198235-1

Analyte	Result Qualifier	RL N	IDL Unit	Dil Fac	D Method	Prep Type
Acetone	3.6 J	10	3.0 ug/L	1	8260C	Total/NA

Client Sample ID: DUP Y Lab Sample ID: 480-198235-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.4		1.0	0.38	ug/L	1	_	8260C	Total/NA
cis-1,2-Dichloroethene	0.98	J	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.53	J	1.0	0.46	ug/L	1		8260C	Total/NA
Field EH/ORP	117				millivolts	1		Field Sampling	Total/NA
pH, Field	7.69				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	3.9				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	698				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.9				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-14I

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	19		1.0	0.32	ug/L	1	_	8260C	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.65	J	1.0	0.46	ug/L	1		8260C	Total/NA
Field EH/ORP	142				millivolts	1		Field Sampling	Total/NA
pH, Field	7.93				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	7.2				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	1127				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.3				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-14S

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.91	J	1.0	0.38	ug/L	1	_	8260C	Total/NA
Acetone	4.6	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	13		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	7.8		1.0	0.81	ug/L	1		8260C	Total/NA
Field EH/ORP	122				millivolts	1		Field Sampling	Total/NA
pH, Field	7.65				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	7.8				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	963				umhos/cm	1		Field Sampling	Total/NA
Turbidity	57.4				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-15I

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.5		1.0	0.38	ug/L	1	_	8260C	Total/NA
Chloroethane	0.43	J	1.0	0.32	ug/L	1		8260C	Total/NA
Field EH/ORP	118				millivolts	1		Field Sampling	Total/NA
pH, Field	7.91				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	3.3				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	468				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.7				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Job ID: 480-198235-1

Lab Sample ID: 480-198235-3

Lab Sample ID: 480-198235-4

Lab Sample ID: 480-198235-5

Eurofins Buffalo

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-15S

Lab Sample ID: 480-198235-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0	0.38	ug/L	1	_	8260C	Total/NA
Field EH/ORP	116				millivolts	1		Field Sampling	Total/NA
pH, Field	8.05				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	3.9				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	533				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.6				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-16I

Lab Sample ID: 480-198235-7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane		1.0	0.38	ug/L	1	_	8260C	Total/NA
Chloroethane	11	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.6	1.0	0.81	ug/L	1		8260C	Total/NA
Field EH/ORP	118			millivolts	1		Field Sampling	Total/NA
pH, Field	7.85			SU	1		Field Sampling	Total/NA
Temperature, Field (C)	2.2			Degrees C	1		Field Sampling	Total/NA
Field Conductivity	501			umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.8			NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-16S

Lab Sample ID: 480-198235-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.7		1.0	0.38	ug/L	1	_	8260C	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.84	J	1.0	0.46	ug/L	1		8260C	Total/NA
Field EH/ORP	117				millivolts	1		Field Sampling	Total/NA
pH, Field	7.69				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	3.9				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	698				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.9				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-17I

Lab Sample ID: 480-198235-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field EH/ORP	113				millivolts	1	_	Field Sampling	Total/NA
pH, Field	7.45				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	4.4				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	314				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.0				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-17S

Lab Sample ID: 480-198235-10

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field EH/ORP	122				millivolts	1	_	Field Sampling	Total/NA
pH, Field	7.35				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	3.3				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	433				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.9				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 480-198235-11

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	
1,1,1-Trichloroethane	0.97 J	1.0	0.82 ug/L	1 8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

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Detection Summary

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-21 (Continued)

Lab Sample ID: 480-198235-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	27		1.0	0.38	ug/L	1	_	8260C	Total/NA
Chloroethane	9.0		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	49		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.66	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	4.0		1.0	0.46	ug/L	1		8260C	Total/NA
Field EH/ORP	113				millivolts	1		Field Sampling	Total/NA
pH, Field	7.77				SU	1		Field Sampling	Total/NA
Temperature, Field (C)	3.9				Degrees C	1		Field Sampling	Total/NA
Field Conductivity	998				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.3				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-22

Lab Sample ID: 480-198235-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method		Prep Type
1,1,1-Trichloroethane	2.0		1.0	0.82	ug/L	1	8260C		Total/NA
1,1-Dichloroethane	2.7		1.0	0.38	ug/L	1	8260C		Total/NA
Field EH/ORP	85				millivolts	1	Field Sam	npling	Total/NA
pH, Field	6.93				SU	1	Field Sam	pling	Total/NA
Temperature, Field (C)	2.2				Degrees C	1	Field Sam	npling	Total/NA
Field Conductivity	248				umhos/cm	1	Field Sam	npling	Total/NA
Turbidity	5.5				NTU	1	Field Sam	pling	Total/NA

Client Sample ID: MW-23

Lab Sample ID: 480-198235-13

Ana	lyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field	d EH/ORP	79				millivolts	1	_	Field Sampling	Total/NA
pН,	Field	6.85				SU	1		Field Sampling	Total/NA
Tem	perature, Field (C)	1.1				Degrees C	1		Field Sampling	Total/NA
Field	d Conductivity	160				umhos/cm	1		Field Sampling	Total/NA
Turb	pidity	1.0				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: Trip Blank

Date Received: 05/23/22 17:00

Vinyl acetate

Vinyl chloride

Lab Sample ID: 480-198235-1 Date Collected: 05/23/22 00:00

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac ND 1.0 0.35 1,1,1,2-Tetrachloroethane ug/L 06/01/22 01:34 1,1,1-Trichloroethane ND 1.0 0.82 ug/L 06/01/22 01:34 1,1,2,2-Tetrachloroethane ND 1.0 0.21 ug/L 06/01/22 01:34 1,1,2-Trichloroethane ND 1.0 0.23 ug/L 06/01/22 01:34 1,1-Dichloroethane ND 1.0 0.38 ug/L 06/01/22 01:34 ND 1.1-Dichloroethene 1.0 0.29 ug/L 06/01/22 01:34 1,2,3-Trichloropropane ND 1.0 0.89 ug/L 06/01/22 01:34 1,2-Dibromo-3-Chloropropane ND 1.0 0.39 06/01/22 01:34 ug/L 1,2-Dibromoethane ND 1.0 0.73 ug/L 06/01/22 01:34 ND 0.79 06/01/22 01:34 1.2-Dichlorobenzene 1.0 ug/L 1,2-Dichloroethane ND 1.0 06/01/22 01:34 0.21 ug/L 1,2-Dichloropropane ND 1.0 0.72 ug/L 06/01/22 01:34 1,4-Dichlorobenzene ND 1.0 0.84 ug/L 06/01/22 01:34 ND 2-Butanone 10 1.3 ug/L 06/01/22 01:34 2-Hexanone ND 5.0 1.2 ug/L 06/01/22 01:34 4-Methyl-2-pentanone ND 5.0 2.1 ug/L 06/01/22 01:34 3.6 10 3.0 ug/L 06/01/22 01:34 Acetone Acrylonitrile ND 5.0 0.83 ug/L 06/01/22 01:34 Benzene ND 1.0 0.41 ug/L 06/01/22 01:34 Bromochloromethane ND 1.0 0.87 ug/L 06/01/22 01:34 Bromodichloromethane ND 1.0 0.39 06/01/22 01:34 ug/L ND 1.0 0.26 06/01/22 01:34 ug/L Bromomethane ND 1.0 0.69 ug/L 06/01/22 01:34 Carbon disulfide ND 1.0 0.19 ug/L 06/01/22 01:34 Carbon tetrachloride ND 1.0 0.27 06/01/22 01:34 ug/L Chlorobenzene ND 1.0 0.75 ug/L 06/01/22 01:34 Chloroethane ND 1.0 0.32 ug/L 06/01/22 01:34 Chloroform ND 1.0 0.34 ug/L 06/01/22 01:34 Chloromethane ND 1.0 0.35 ug/L 06/01/22 01:34 cis-1,2-Dichloroethene ND 1.0 0.81 ug/L 06/01/22 01:34 cis-1,3-Dichloropropene ND 1.0 0.36 ug/L 06/01/22 01:34 Dibromochloromethane ND 0.32 ug/L 1.0 06/01/22 01:34 Dibromomethane ND 1.0 0.41 ug/L 06/01/22 01:34 Ethylbenzene NΠ 1.0 0.74 ug/L 06/01/22 01:34 Iodomethane ND 1.0 0.30 06/01/22 01:34 ug/L m,p-Xylene ND 06/01/22 01:34 2.0 0.66 ug/L Methylene Chloride ND 1.0 0.44 ug/L 06/01/22 01:34 ND 1.0 06/01/22 01:34 o-Xylene 0.76 ug/L Styrene ND 1.0 0.73 ug/L 06/01/22 01:34 ug/L Tetrachloroethene ND 1.0 0.36 06/01/22 01:34 Toluene ND 1.0 0.51 ug/L 06/01/22 01:34 trans-1,2-Dichloroethene ND 1.0 0.90 ug/L 06/01/22 01:34 trans-1,3-Dichloropropene ND 1.0 0.37 ug/L 06/01/22 01:34 trans-1,4-Dichloro-2-butene ND 5.0 0.22 ug/L 06/01/22 01:34 Trichloroethene ND 1.0 0.46 ug/L 06/01/22 01:34 Trichlorofluoromethane 06/01/22 01:34 ND 1.0 0.88 ug/L

Eurofins Buffalo

06/01/22 01:34

06/01/22 01:34

5.0

1.0

0.85 ug/L

0.90 ug/L

ND

ND

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: Trip Blank

Lab Sample ID: 480-198235-1

Date Collected: 05/23/22 00:00 Matrix: Water
Date Received: 05/23/22 17:00

Surrogate	%Recovery (Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120	_		06/01/22 01:34	1
4-Bromofluorobenzene (Surr)	108		73 - 120			06/01/22 01:34	1
Toluene-d8 (Surr)	96		80 - 120			06/01/22 01:34	1

5

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4 4

15

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: DUP Y

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198235-2 Date Collected: 05/23/22 12:35

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed ND 1.0 0.35 1,1,1,2-Tetrachloroethane ug/L 06/01/22 01:57 1,1,1-Trichloroethane ND 1.0 0.82 ug/L 06/01/22 01:57 1,1,2,2-Tetrachloroethane ND 1.0 0.21 ug/L 06/01/22 01:57 1,1,2-Trichloroethane ND 1.0 0.23 ug/L 06/01/22 01:57 1,1-Dichloroethane 4.4 1.0 0.38 ug/L 06/01/22 01:57 1.1-Dichloroethene ND 1.0 0.29 ug/L 06/01/22 01:57 1,2,3-Trichloropropane ND 1.0 0.89 ug/L 06/01/22 01:57 1,2-Dibromo-3-Chloropropane ND 1.0 0.39 06/01/22 01:57 ug/L 1,2-Dibromoethane ND 1.0 0.73 ug/L 06/01/22 01:57 1,2-Dichlorobenzene ND 0.79 06/01/22 01:57 1.0 ug/L 1,2-Dichloroethane ND 1.0 06/01/22 01:57 0.21 ug/L ND 1,2-Dichloropropane 1.0 0.72 ug/L 06/01/22 01:57 1,4-Dichlorobenzene ND 1.0 0.84 ug/L 06/01/22 01:57 ND 2-Butanone 10 1.3 ug/L 06/01/22 01:57 2-Hexanone ND 5.0 1.2 ug/L 06/01/22 01:57 4-Methyl-2-pentanone ND 5.0 2.1 ug/L 06/01/22 01:57 ND Acetone 10 3.0 ug/L 06/01/22 01:57 Acrylonitrile ND 5.0 0.83 ug/L 06/01/22 01:57 06/01/22 01:57 Benzene ND 1.0 0.41 ug/L Bromochloromethane ND 1.0 0.87 ug/L 06/01/22 01:57 Bromodichloromethane ND 0.39 06/01/22 01:57 1.0 ug/L ND 1.0 0.26 06/01/22 01:57 ug/L Bromomethane ND 1.0 0.69 ug/L 06/01/22 01:57 Carbon disulfide ND 1.0 0.19 ug/L 06/01/22 01:57 Carbon tetrachloride ND 1.0 0.27 06/01/22 01:57 ug/L Chlorobenzene ND 1.0 0.75 ug/L 06/01/22 01:57 Chloroethane ND 1.0 0.32 ug/L 06/01/22 01:57 Chloroform ND 1.0 0.34 ug/L 06/01/22 01:57 Chloromethane ND 1.0 0.35 ug/L 06/01/22 01:57 cis-1,2-Dichloroethene 0.98 1.0 0.81 ug/L 06/01/22 01:57 cis-1,3-Dichloropropene ND 1.0 0.36 ug/L 06/01/22 01:57 Dibromochloromethane ND 0.32 ug/L 1.0 06/01/22 01:57 Dibromomethane ND 1.0 0.41 ug/L 06/01/22 01:57 Ethylbenzene NΠ 1.0 0.74 ug/L 06/01/22 01:57 Iodomethane ND 1.0 0.30 06/01/22 01:57 ug/L m,p-Xylene ND 06/01/22 01:57 2.0 0.66 ug/L Methylene Chloride ND 1.0 0.44 ug/L 06/01/22 01:57 ND 1.0 o-Xylene 0.76 ug/L 06/01/22 01:57 Styrene ND 1.0 0.73 ug/L 06/01/22 01:57 ug/L Tetrachloroethene ND 1.0 0.36 06/01/22 01:57 Toluene ND 1.0 0.51 ug/L 06/01/22 01:57 trans-1,2-Dichloroethene ND 1.0 0.90 ug/L 06/01/22 01:57 trans-1,3-Dichloropropene ND 1.0 0.37 ug/L 06/01/22 01:57 trans-1,4-Dichloro-2-butene ND 5.0 0.22 ug/L 06/01/22 01:57 1.0 0.46 ug/L 06/01/22 01:57 **Trichloroethene** 0.53 Trichlorofluoromethane ND 1.0 0.88 ug/L 06/01/22 01:57 ND Vinyl acetate 5.0 0.85 ug/L 06/01/22 01:57 Vinyl chloride ND 1.0 0.90 ug/L 06/01/22 01:57

Eurofins Buffalo

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-2 **Client Sample ID: DUP Y**

Date Collected: 05/23/22 12:35 **Matrix: Water** Date Received: 05/23/22 17:00

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120	_		06/01/22 01:57	1
4-Bromofluorobenzene (Surr)	104		73 - 120			06/01/22 01:57	1
Toluene-d8 (Surr)	92		80 - 120			06/01/22 01:57	1

Analyte	Result (Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	117				millivolts			05/23/22 12:35	1
pH, Field	7.69				SU			05/23/22 12:35	1
Temperature, Field (C)	3.9				Degrees C			05/23/22 12:35	1
Field Conductivity	698				umhos/cm			05/23/22 12:35	1
Turbidity	4.9				NTU			05/23/22 12:35	1

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-14I

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198235-3 Date Collected: 05/23/22 13:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/01/22 02:20	
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/01/22 02:20	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/22 02:20	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/22 02:20	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/01/22 02:20	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/22 02:20	
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/01/22 02:20	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/22 02:20	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/22 02:20	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/22 02:20	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/01/22 02:20	
1,2-Dichloropropane	ND		1.0		ug/L			06/01/22 02:20	
1,4-Dichlorobenzene	ND		1.0		ug/L			06/01/22 02:20	
2-Butanone	ND		10		ug/L			06/01/22 02:20	
2-Hexanone	ND		5.0		ug/L			06/01/22 02:20	
4-Methyl-2-pentanone	ND		5.0		ug/L			06/01/22 02:20	
Acetone	ND		10		ug/L			06/01/22 02:20	
Acrylonitrile	ND		5.0		ug/L			06/01/22 02:20	
Benzene	ND		1.0		ug/L			06/01/22 02:20	
Bromochloromethane	ND		1.0		ug/L			06/01/22 02:20	
Bromodichloromethane	ND		1.0		ug/L			06/01/22 02:20	
Bromoform	ND		1.0		ug/L			06/01/22 02:20	
Bromomethane	ND		1.0		ug/L			06/01/22 02:20	
Carbon disulfide	ND		1.0		ug/L			06/01/22 02:20	
Carbon tetrachloride	ND		1.0		ug/L			06/01/22 02:20	
Chlorobenzene	ND		1.0		ug/L			06/01/22 02:20	
Chloroethane	19		1.0		ug/L			06/01/22 02:20	
Chloroform	ND		1.0		ug/L			06/01/22 02:20	
Chloromethane	ND		1.0		ug/L			06/01/22 02:20	
cis-1,2-Dichloroethene	10		1.0		ug/L			06/01/22 02:20	
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 02:20	
Dibromochloromethane	ND		1.0		ug/L			06/01/22 02:20	
Dibromomethane	ND		1.0		ug/L			06/01/22 02:20	
	ND		1.0		ug/L ug/L			06/01/22 02:20	
Ethylbenzene lodomethane	ND ND		1.0		ug/L ug/L			06/01/22 02:20	
m,p-Xylene	ND ND		2.0		ug/L			06/01/22 02:20	
Methylene Chloride	ND		1.0		ug/L			06/01/22 02:20	
o-Xylene	ND		1.0		ug/L			06/01/22 02:20	
Styrene	ND		1.0		ug/L			06/01/22 02:20	
Tetrachloroethene	ND		1.0		ug/L			06/01/22 02:20	
Toluene	ND		1.0		ug/L			06/01/22 02:20	
rans-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 02:20	
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 02:20	
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			06/01/22 02:20	
Trichloroethene	0.65	. .	1.0		ug/L			06/01/22 02:20	
Trichlorofluoromethane	ND		1.0		ug/L			06/01/22 02:20	
Vinyl acetate	ND		5.0	0.85 0.90	ug/L			06/01/22 02:20	

Eurofins Buffalo

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-3 **Client Sample ID: MW-14I**

Date Collected: 05/23/22 13:30 **Matrix: Water**

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87	77 - 120		06/01/22 02:20	1
4-Bromofluorobenzene (Surr)	101	73 - 120		06/01/22 02:20	1
Toluene-d8 (Surr)	92	80 - 120		06/01/22 02:20	1

Method: Field Sampling - Fiel	d Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	142				millivolts			05/23/22 13:30	1
pH, Field	7.93				SU			05/23/22 13:30	1
Temperature, Field (C)	7.2				Degrees C			05/23/22 13:30	1
Field Conductivity	1127				umhos/cm			05/23/22 13:30	1
Turbidity	6.3				NTU			05/23/22 13:30	1

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-14S Date Collected: 05/23/22 13:45

Vinyl chloride

ID: MW-14S Lab Sample ID: 480-198235-4

Matrix: Water

Method: 8260C - Volatile Organic Analyte	c Compounds by Result C		MDI	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L		riepaieu	06/01/22 02:43	1
1,1,1-Trichloroethane	ND	1.0		ug/L			06/01/22 02:43	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			06/01/22 02:43	
1,1,2-Trichloroethane	ND	1.0		ug/L			06/01/22 02:43	
1,1-Dichloroethane	0.91 J			ug/L			06/01/22 02:43	1
1,1-Dichloroethene	0.91 3 ND	1.0		ug/L			06/01/22 02:43	1
1,2,3-Trichloropropane	ND	1.0		ug/L			06/01/22 02:43	
1,2-Dibromo-3-Chloropropane	ND	1.0		ug/L			06/01/22 02:43	1
1,2-Dibromoethane	ND	1.0		ug/L			06/01/22 02:43	1
1,2-Dibronoemane	ND	1.0					06/01/22 02:43	' 1
,		1.0		ug/L				
1,2-Dichloroethane	ND			ug/L			06/01/22 02:43	1
1,2-Dichloropropane	ND	1.0		ug/L			06/01/22 02:43	
1,4-Dichlorobenzene	ND	1.0		ug/L			06/01/22 02:43	1
2-Butanone	ND	10		ug/L			06/01/22 02:43	1
2-Hexanone	ND	5.0		ug/L			06/01/22 02:43	
4-Methyl-2-pentanone	ND	5.0		ug/L			06/01/22 02:43	1
Acetone	4.6 J			ug/L			06/01/22 02:43	1
Acrylonitrile	ND	5.0		ug/L			06/01/22 02:43	1
Benzene	ND	1.0		ug/L			06/01/22 02:43	1
Bromochloromethane	ND	1.0		ug/L			06/01/22 02:43	1
Bromodichloromethane	ND	1.0	0.39	ug/L			06/01/22 02:43	1
Bromoform	ND	1.0	0.26	ug/L			06/01/22 02:43	1
Bromomethane	ND	1.0	0.69	ug/L			06/01/22 02:43	1
Carbon disulfide	ND	1.0	0.19	ug/L			06/01/22 02:43	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			06/01/22 02:43	1
Chlorobenzene	ND	1.0	0.75	ug/L			06/01/22 02:43	1
Chloroethane	13	1.0	0.32	ug/L			06/01/22 02:43	1
Chloroform	ND	1.0	0.34	ug/L			06/01/22 02:43	1
Chloromethane	ND	1.0	0.35	ug/L			06/01/22 02:43	1
cis-1,2-Dichloroethene	7.8	1.0	0.81	ug/L			06/01/22 02:43	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			06/01/22 02:43	1
Dibromochloromethane	ND	1.0	0.32	ug/L			06/01/22 02:43	1
Dibromomethane	ND	1.0	0.41	ug/L			06/01/22 02:43	1
Ethylbenzene	ND	1.0	0.74	ug/L			06/01/22 02:43	
lodomethane	ND	1.0	0.30	ug/L			06/01/22 02:43	1
m,p-Xylene	ND	2.0		ug/L			06/01/22 02:43	1
Methylene Chloride	ND	1.0	0.44	ug/L			06/01/22 02:43	1
o-Xylene	ND	1.0		ug/L			06/01/22 02:43	1
Styrene	ND	1.0		ug/L			06/01/22 02:43	1
Tetrachloroethene	ND	1.0		ug/L			06/01/22 02:43	1
Toluene	ND	1.0		ug/L			06/01/22 02:43	1
trans-1,2-Dichloroethene	ND	1.0		ug/L			06/01/22 02:43	1
trans-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 02:43	
trans-1,4-Dichloro-2-butene	ND	5.0		ug/L			06/01/22 02:43	1
Trichloroethene	ND	1.0		ug/L			06/01/22 02:43	1
Trichlorofluoromethane	ND	1.0		ug/L			06/01/22 02:43	
Vinyl acetate	ND	5.0		ug/L			06/01/22 02:43	1
Villy about	110	5.0	0.00	ag/L			00/01/22 02.40	

Eurofins Buffalo

06/01/22 02:43

1.0

0.90 ug/L

ND

3

5

7

10

12

14

15

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-4 **Client Sample ID: MW-14S**

Date Collected: 05/23/22 13:45 **Matrix: Water**

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87	77 - 120		06/01/22 02:43	1
4-Bromofluorobenzene (Surr)	103	73 - 120		06/01/22 02:43	1
Toluene-d8 (Surr)	91	80 - 120		06/01/22 02:43	1

Method: Field Sampling - Field Analyte	Result Qualifier	NONE	NONE	Unit	n	Droporod	Analyzed	Dil Fac
Analyte	Result Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	DII Fac
Field EH/ORP	122			millivolts			05/23/22 13:45	1
pH, Field	7.65			SU			05/23/22 13:45	1
Temperature, Field (C)	7.8			Degrees C			05/23/22 13:45	1
Field Conductivity	963			umhos/cm			05/23/22 13:45	1
Turbidity	57.4			NTU			05/23/22 13:45	1

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-15I

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198235-5 Date Collected: 05/23/22 13:15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/01/22 03:06	
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/01/22 03:06	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/22 03:06	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/22 03:06	
1,1-Dichloroethane	1.5		1.0	0.38	ug/L			06/01/22 03:06	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/22 03:06	
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/01/22 03:06	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/22 03:06	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/22 03:06	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/22 03:06	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/01/22 03:06	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/01/22 03:06	
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/01/22 03:06	
2-Butanone	ND		10		ug/L			06/01/22 03:06	
2-Hexanone	ND		5.0		ug/L			06/01/22 03:06	
4-Methyl-2-pentanone	ND		5.0	2.1	ug/L			06/01/22 03:06	
Acetone	ND		10		ug/L			06/01/22 03:06	
Acrylonitrile	ND		5.0		ug/L			06/01/22 03:06	
Benzene	ND		1.0		ug/L			06/01/22 03:06	
Bromochloromethane	ND		1.0	0.87				06/01/22 03:06	
Bromodichloromethane	ND		1.0		ug/L			06/01/22 03:06	
Bromoform	ND		1.0		ug/L			06/01/22 03:06	
Bromomethane	ND		1.0	0.69	_			06/01/22 03:06	
Carbon disulfide	ND		1.0		ug/L			06/01/22 03:06	
Carbon tetrachloride	ND		1.0		ug/L			06/01/22 03:06	
Chlorobenzene	ND		1.0		ug/L			06/01/22 03:06	
Chloroethane	0.43	1	1.0		ug/L			06/01/22 03:06	
Chloroform	ND		1.0		ug/L			06/01/22 03:06	
Chloromethane	ND		1.0		ug/L			06/01/22 03:06	
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 03:06	
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 03:06	
Dibromochloromethane	ND		1.0		ug/L			06/01/22 03:06	
Dibromomethane	ND		1.0		ug/L			06/01/22 03:06	
Ethylbenzene	ND		1.0		ug/L ug/L			06/01/22 03:06	
lodomethane	ND		1.0	0.30	-			06/01/22 03:06	
m,p-Xylene	ND		2.0		ug/L			06/01/22 03:06	
Methylene Chloride	ND		1.0		ug/L ug/L			06/01/22 03:06	
-									
o-Xylene	ND ND		1.0		ug/L			06/01/22 03:06	
Styrene			1.0		ug/L			06/01/22 03:06	
Tetrachloroethene	ND		1.0		ug/L			06/01/22 03:06	
Toluene	ND		1.0		ug/L			06/01/22 03:06	
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 03:06	
trans-1,3-Dichloropropene	ND	FI	1.0		ug/L			06/01/22 03:06	
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			06/01/22 03:06	
Trichloroethene	ND		1.0		ug/L			06/01/22 03:06	
Trichlorofluoromethane	ND		1.0		ug/L			06/01/22 03:06	
Vinyl acetate Vinyl chloride	ND ND		5.0 1.0		ug/L ug/L			06/01/22 03:06 06/01/22 03:06	

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-5 **Client Sample ID: MW-15I**

Date Collected: 05/23/22 13:15 Matrix: Water

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualific	er Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	77 - 120		06/01/22 03:06	1
4-Bromofluorobenzene (Surr)	102	73 - 120		06/01/22 03:06	1
Toluene-d8 (Surr)	93	80 - 120		06/01/22 03:06	1

Method: Field Sampling - Field	u Sampiing							
Analyte	Result Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	118			millivolts			05/23/22 13:15	1
pH, Field	7.91			SU			05/23/22 13:15	1
Temperature, Field (C)	3.3			Degrees C			05/23/22 13:15	1
Field Conductivity	468			umhos/cm			05/23/22 13:15	1
Turbidity	2.7			NTU			05/23/22 13:15	1

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-15S

Lab Sample ID: 480-198235-6

Matrix: Water

Date Collected: 05/23/22 13:00 Date Received: 05/23/22 17:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	1.0	0.35	ug/L			06/01/22 03:30	
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			06/01/22 03:30	,
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			06/01/22 03:30	,
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			06/01/22 03:30	
1,1-Dichloroethane	1.2	1.0	0.38	ug/L			06/01/22 03:30	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			06/01/22 03:30	
1,2,3-Trichloropropane	ND	1.0	0.89	ug/L			06/01/22 03:30	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			06/01/22 03:30	
1,2-Dibromoethane	ND	1.0	0.73	ug/L			06/01/22 03:30	
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			06/01/22 03:30	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			06/01/22 03:30	
1,2-Dichloropropane	ND	1.0	0.72	ug/L			06/01/22 03:30	
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			06/01/22 03:30	
2-Butanone	ND	10	1.3	ug/L			06/01/22 03:30	
2-Hexanone	ND	5.0	1.2	ug/L			06/01/22 03:30	
4-Methyl-2-pentanone	ND	5.0	2.1	ug/L			06/01/22 03:30	
Acetone	ND	10	3.0	ug/L			06/01/22 03:30	
Acrylonitrile	ND	5.0	0.83	ug/L			06/01/22 03:30	
Benzene	ND	1.0	0.41				06/01/22 03:30	
Bromochloromethane	ND	1.0	0.87	-			06/01/22 03:30	
Bromodichloromethane	ND	1.0	0.39	ug/L			06/01/22 03:30	
Bromoform	ND	1.0		ug/L			06/01/22 03:30	
Bromomethane	ND	1.0		ug/L			06/01/22 03:30	
Carbon disulfide	ND	1.0		ug/L			06/01/22 03:30	
Carbon tetrachloride	ND	1.0		ug/L			06/01/22 03:30	
Chlorobenzene	ND	1.0		ug/L			06/01/22 03:30	
Chloroethane	ND	1.0		ug/L			06/01/22 03:30	
Chloroform	ND	1.0		ug/L			06/01/22 03:30	
Chloromethane	ND	1.0		ug/L			06/01/22 03:30	
cis-1,2-Dichloroethene	ND	1.0		ug/L			06/01/22 03:30	
cis-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 03:30	
Dibromochloromethane	ND	1.0		ug/L			06/01/22 03:30	
Dibromomethane	ND	1.0		ug/L			06/01/22 03:30	
Ethylbenzene	ND	1.0		ug/L			06/01/22 03:30	
lodomethane	ND	1.0		ug/L			06/01/22 03:30	
m,p-Xylene	ND	2.0		ug/L			06/01/22 03:30	
Methylene Chloride	ND	1.0		ug/L			06/01/22 03:30	
o-Xylene	ND	1.0		ug/L			06/01/22 03:30	
Styrene	ND	1.0		ug/L			06/01/22 03:30	
Tetrachloroethene	ND	1.0		ug/L			06/01/22 03:30	
Toluene	ND	1.0		ug/L			06/01/22 03:30	
trans-1,2-Dichloroethene	ND	1.0		ug/L			06/01/22 03:30	
trans-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 03:30	
trans-1,4-Dichloro-2-butene	ND	5.0		ug/L			06/01/22 03:30	
Trichloroethene	ND	1.0		ug/L			06/01/22 03:30	
Trichlorofluoromethane	ND ND	1.0		ug/L			06/01/22 03:30	
Vinyl acetate	ND	5.0		ug/L			06/01/22 03:30	
Vinyl chloride	ND ND	1.0		ug/L ug/L			06/01/22 03:30	

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Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-6 **Client Sample ID: MW-15S**

Date Collected: 05/23/22 13:00 Matrix: Water

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87	77 - 120		06/01/22 03:30	1
4-Bromofluorobenzene (Surr)	105	73 _ 120		06/01/22 03:30	1
Toluene-d8 (Surr)	99	80 - 120		06/01/22 03:30	1

Method: Field Sampling - Field	d Sampling							
Analyte	Result Qualifie	er NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	116			millivolts			05/23/22 13:00	1
pH, Field	8.05			SU			05/23/22 13:00	1
Temperature, Field (C)	3.9			Degrees C			05/23/22 13:00	1
Field Conductivity	533			umhos/cm			05/23/22 13:00	1
Turbidity	9.6			NTU			05/23/22 13:00	1

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-16I

Lab Sample ID: 480-198235-7 Date Collected: 05/23/22 12:45

Matrix: Water

Method: 8260C - Volatile Organic								
Analyte	Result			Unit	<u>D</u> _	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L			06/01/22 03:53	1
1,1,1-Trichloroethane	ND	1.0		ug/L			06/01/22 03:53	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			06/01/22 03:53	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			06/01/22 03:53	1
1,1-Dichloroethane	11	1.0	0.38	ug/L			06/01/22 03:53	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			06/01/22 03:53	1
1,2,3-Trichloropropane	ND	1.0	0.89	ug/L			06/01/22 03:53	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			06/01/22 03:53	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			06/01/22 03:53	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			06/01/22 03:53	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			06/01/22 03:53	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			06/01/22 03:53	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			06/01/22 03:53	1
2-Butanone	ND	10	1.3	ug/L			06/01/22 03:53	1
2-Hexanone	ND	5.0	1.2	ug/L			06/01/22 03:53	1
4-Methyl-2-pentanone	ND	5.0	2.1	ug/L			06/01/22 03:53	1
Acetone	ND	10	3.0	ug/L			06/01/22 03:53	1
Acrylonitrile	ND	5.0	0.83	ug/L			06/01/22 03:53	1
Benzene	ND	1.0	0.41	ug/L			06/01/22 03:53	1
Bromochloromethane	ND	1.0	0.87	ug/L			06/01/22 03:53	1
Bromodichloromethane	ND	1.0	0.39	ug/L			06/01/22 03:53	1
Bromoform	ND	1.0	0.26	ug/L			06/01/22 03:53	1
Bromomethane	ND	1.0	0.69	ug/L			06/01/22 03:53	1
Carbon disulfide	ND	1.0	0.19	ug/L			06/01/22 03:53	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			06/01/22 03:53	1
Chlorobenzene	ND	1.0	0.75	ug/L			06/01/22 03:53	1
Chloroethane	11	1.0	0.32	ug/L			06/01/22 03:53	1
Chloroform	ND	1.0	0.34	ug/L			06/01/22 03:53	1
Chloromethane	ND	1.0		ug/L			06/01/22 03:53	1
cis-1,2-Dichloroethene	4.6	1.0		ug/L			06/01/22 03:53	1
cis-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 03:53	1
Dibromochloromethane	ND	1.0		ug/L			06/01/22 03:53	1
Dibromomethane	ND	1.0		ug/L			06/01/22 03:53	1
Ethylbenzene	ND	1.0		ug/L			06/01/22 03:53	1
Iodomethane	ND	1.0		ug/L			06/01/22 03:53	4
m,p-Xylene	ND	2.0		ug/L			06/01/22 03:53	,
Methylene Chloride	ND	1.0		ug/L			06/01/22 03:53	1
o-Xylene	ND	1.0		ug/L			06/01/22 03:53	1
Styrene	ND	1.0		ug/L			06/01/22 03:53	1
Tetrachloroethene	ND	1.0		ug/L			06/01/22 03:53	1
Toluene	ND	1.0		ug/L			06/01/22 03:53	1
trans-1,2-Dichloroethene	ND	1.0		ug/L			06/01/22 03:53	1
trans-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 03:53	1
trans-1,4-Dichloro-2-butene	ND ND	5.0		ug/L ug/L			06/01/22 03:53	1
Trichloroethene	ND ND	1.0		ug/L ug/L			06/01/22 03:53	1
Trichlorofluoromethane	ND ND	1.0		ug/L			06/01/22 03:53	1
Vinyl acetate Vinyl chloride	ND ND	5.0 1.0		ug/L ug/L			06/01/22 03:53 06/01/22 03:53	1

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-7 **Client Sample ID: MW-16I**

Date Collected: 05/23/22 12:45 Matrix: Water

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualif	ier Limits	Prepared Analyz	ed Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	77 - 120	06/01/22	03:53 1
4-Bromofluorobenzene (Surr)	101	73 - 120	06/01/22	03:53 1
Toluene-d8 (Surr)	94	80 - 120	06/01/22	03:53 1

Method: Field Sampling - Field	d Sampling								
Analyte	Result (Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	118				millivolts			05/23/22 12:45	1
pH, Field	7.85				SU			05/23/22 12:45	1
Temperature, Field (C)	2.2				Degrees C			05/23/22 12:45	1
Field Conductivity	501				umhos/cm			05/23/22 12:45	1
Turbidity	5.8				NTU			05/23/22 12:45	1

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-16S

Lab Sample ID: 480-198235-8

Matrix: Water

Date Collected: 05/23/22 12:35 Date Received: 05/23/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/01/22 04:16	
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/01/22 04:16	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/22 04:16	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/22 04:16	
1,1-Dichloroethane	4.7		1.0	0.38	ug/L			06/01/22 04:16	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/22 04:16	
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/01/22 04:16	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/22 04:16	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/22 04:16	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/22 04:16	
1,2-Dichloroethane	ND		1.0	0.21				06/01/22 04:16	
1,2-Dichloropropane	ND		1.0	0.72				06/01/22 04:16	
1,4-Dichlorobenzene	ND		1.0		ug/L			06/01/22 04:16	
2-Butanone	ND		10		ug/L			06/01/22 04:16	
2-Hexanone	ND		5.0		ug/L			06/01/22 04:16	
4-Methyl-2-pentanone	ND		5.0		ug/L			06/01/22 04:16	
Acetone	ND		10		ug/L			06/01/22 04:16	
Acrylonitrile	ND		5.0		ug/L			06/01/22 04:16	
Benzene	ND		1.0		ug/L			06/01/22 04:16	
Bromochloromethane	ND		1.0		ug/L			06/01/22 04:16	
Bromodichloromethane	ND		1.0		ug/L			06/01/22 04:16	
Bromoform	ND		1.0		ug/L ug/L			06/01/22 04:16	
Bromomethane	ND		1.0		ug/L ug/L			06/01/22 04:16	
Carbon disulfide	ND ND		1.0					06/01/22 04:16	
Carbon tetrachloride	ND ND				ug/L ug/L			06/01/22 04:16	
			1.0						
Chlorobenzene	ND		1.0		ug/L			06/01/22 04:16	
Chloroethane	ND		1.0		ug/L			06/01/22 04:16	
Chloroform	ND		1.0		ug/L			06/01/22 04:16	
Chloromethane	ND		1.0		ug/L			06/01/22 04:16	
cis-1,2-Dichloroethene	1.2		1.0		ug/L			06/01/22 04:16	
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 04:16	
Dibromochloromethane	ND		1.0		ug/L			06/01/22 04:16	
Dibromomethane	ND		1.0		ug/L			06/01/22 04:16	
Ethylbenzene	ND		1.0		ug/L			06/01/22 04:16	
lodomethane	ND		1.0		ug/L			06/01/22 04:16	
m,p-Xylene	ND		2.0		ug/L			06/01/22 04:16	
Methylene Chloride	ND		1.0		ug/L			06/01/22 04:16	
o-Xylene	ND		1.0		ug/L			06/01/22 04:16	
Styrene	ND		1.0		ug/L			06/01/22 04:16	
Tetrachloroethene	ND		1.0	0.36	ug/L			06/01/22 04:16	
Toluene	ND		1.0	0.51	ug/L			06/01/22 04:16	
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 04:16	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/01/22 04:16	
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			06/01/22 04:16	
Trichloroethene	0.84	J	1.0	0.46	ug/L			06/01/22 04:16	
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/01/22 04:16	
Vinyl acetate	ND		5.0	0.85	ug/L			06/01/22 04:16	
Vinyl chloride	ND		1.0	0.90	ug/L			06/01/22 04:16	

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Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-8 **Client Sample ID: MW-16S**

Date Collected: 05/23/22 12:35 Matrix: Water

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualifier	Limits	Prepared Ar	alyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	77 - 120	06/01	1/22 04:16	1
4-Bromofluorobenzene (Surr)	100	73 - 120	06/07	/22 04:16	1
Toluene-d8 (Surr)	93	80 - 120	06/07	1/22 04:16	1

Analyte	Result Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	117			millivolts			05/23/22 12:35	1
pH, Field	7.69			SU			05/23/22 12:35	1
Temperature, Field (C)	3.9			Degrees C			05/23/22 12:35	1
Field Conductivity	698			umhos/cm			05/23/22 12:35	1
Turbidity	4.9			NTU			05/23/22 12:35	1

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-17I

Lab Sample ID: 480-198235-9

Matrix: Water

Date Collected: 05/23/22 12:25 Date Received: 05/23/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/01/22 04:39	
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/01/22 04:39	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/22 04:39	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/22 04:39	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/01/22 04:39	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/22 04:39	
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/01/22 04:39	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/22 04:39	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/22 04:39	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/22 04:39	
1,2-Dichloroethane	ND		1.0	0.21				06/01/22 04:39	
1,2-Dichloropropane	ND		1.0	0.72				06/01/22 04:39	
1,4-Dichlorobenzene	ND		1.0		ug/L			06/01/22 04:39	
2-Butanone	ND		10		ug/L			06/01/22 04:39	
2-Hexanone	ND		5.0		ug/L			06/01/22 04:39	
4-Methyl-2-pentanone	ND		5.0		ug/L			06/01/22 04:39	
Acetone	ND		10		ug/L			06/01/22 04:39	
Acrylonitrile	ND		5.0		ug/L			06/01/22 04:39	
Benzene	ND		1.0		ug/L			06/01/22 04:39	
Bromochloromethane	ND		1.0		ug/L ug/L			06/01/22 04:39	
Bromodichloromethane	ND		1.0		ug/L ug/L			06/01/22 04:39	
Bromoform	ND		1.0		ug/L ug/L			06/01/22 04:39	
Bromomethane	ND		1.0		ug/L			06/01/22 04:39	
Carbon disulfide	ND		1.0		ug/L			06/01/22 04:39	
Carbon tetrachloride	ND		1.0		ug/L			06/01/22 04:39	
Chlorobenzene	ND		1.0		ug/L			06/01/22 04:39	
Chloroethane	ND		1.0		ug/L			06/01/22 04:39	
Chloroform	ND		1.0		ug/L			06/01/22 04:39	
Chloromethane	ND		1.0		ug/L			06/01/22 04:39	
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 04:39	
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 04:39	
Dibromochloromethane	ND		1.0		ug/L			06/01/22 04:39	
Dibromomethane	ND		1.0		ug/L			06/01/22 04:39	
Ethylbenzene	ND		1.0		ug/L			06/01/22 04:39	
Iodomethane	ND		1.0		ug/L			06/01/22 04:39	
m,p-Xylene	ND		2.0		ug/L			06/01/22 04:39	
Methylene Chloride	ND		1.0	0.44	ug/L			06/01/22 04:39	
o-Xylene	ND		1.0	0.76	ug/L			06/01/22 04:39	
Styrene	ND		1.0		ug/L			06/01/22 04:39	
Tetrachloroethene	ND		1.0		ug/L			06/01/22 04:39	
Toluene	ND		1.0	0.51	ug/L			06/01/22 04:39	
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 04:39	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/01/22 04:39	
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			06/01/22 04:39	
Trichloroethene	ND		1.0	0.46	ug/L			06/01/22 04:39	
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/01/22 04:39	
Vinyl acetate	ND		5.0	0.85	ug/L			06/01/22 04:39	
Vinyl chloride	ND		1.0	0.90	ug/L			06/01/22 04:39	

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Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Lab Sample ID: 480-198235-9 **Client Sample ID: MW-17I**

Date Collected: 05/23/22 12:25 Matrix: Water

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualif	ïer Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	77 - 120		6/01/22 04:39	1
4-Bromofluorobenzene (Surr)	109	73 - 120	06	6/01/22 04:39	1
Toluene-d8 (Surr)	94	80 - 120	06	6/01/22 04:39	1

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	113				millivolts			05/23/22 12:25	1
pH, Field	7.45				SU			05/23/22 12:25	1
Temperature, Field (C)	4.4				Degrees C			05/23/22 12:25	1
Field Conductivity	314				umhos/cm			05/23/22 12:25	1
Turbidity	6.0				NTU			05/23/22 12:25	1

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-17S

Lab Sample ID: 480-198235-10

Matrix: Water

Date Collected: 05/23/22 12:15 Date Received: 05/23/22 17:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND ND	1.0	0.35	ug/L			06/01/22 05:03	
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			06/01/22 05:03	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			06/01/22 05:03	
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			06/01/22 05:03	
1,1-Dichloroethane	ND	1.0	0.38	ug/L			06/01/22 05:03	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			06/01/22 05:03	
1,2,3-Trichloropropane	ND	1.0	0.89	ug/L			06/01/22 05:03	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			06/01/22 05:03	
1,2-Dibromoethane	ND	1.0	0.73	ug/L			06/01/22 05:03	
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			06/01/22 05:03	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			06/01/22 05:03	
1,2-Dichloropropane	ND	1.0	0.72	ug/L			06/01/22 05:03	
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			06/01/22 05:03	
2-Butanone	ND	10	1.3	ug/L			06/01/22 05:03	
2-Hexanone	ND	5.0	1.2	ug/L			06/01/22 05:03	
4-Methyl-2-pentanone	ND	5.0	2.1	ug/L			06/01/22 05:03	
Acetone	ND	10	3.0				06/01/22 05:03	
Acrylonitrile	ND	5.0	0.83	ug/L			06/01/22 05:03	
Benzene	ND	1.0	0.41	ug/L			06/01/22 05:03	
Bromochloromethane	ND	1.0	0.87	-			06/01/22 05:03	
Bromodichloromethane	ND	1.0	0.39	ug/L			06/01/22 05:03	
Bromoform	ND	1.0		ug/L			06/01/22 05:03	
Bromomethane	ND	1.0	0.69	_			06/01/22 05:03	
Carbon disulfide	ND	1.0	0.19	ug/L			06/01/22 05:03	
Carbon tetrachloride	ND	1.0	0.27	ug/L			06/01/22 05:03	
Chlorobenzene	ND	1.0	0.75	ug/L			06/01/22 05:03	
Chloroethane	ND	1.0		ug/L			06/01/22 05:03	
Chloroform	ND	1.0	0.34	ug/L			06/01/22 05:03	
Chloromethane	ND	1.0		ug/L			06/01/22 05:03	
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			06/01/22 05:03	
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			06/01/22 05:03	
Dibromochloromethane	ND	1.0		ug/L			06/01/22 05:03	
Dibromomethane	ND	1.0	0.41	ug/L			06/01/22 05:03	
Ethylbenzene	ND	1.0	0.74	ug/L			06/01/22 05:03	
lodomethane	ND	1.0		ug/L			06/01/22 05:03	
m,p-Xylene	ND	2.0	0.66	ug/L			06/01/22 05:03	
Methylene Chloride	ND	1.0		ug/L			06/01/22 05:03	
o-Xylene	ND	1.0		ug/L			06/01/22 05:03	
Styrene	ND	1.0		ug/L			06/01/22 05:03	
Tetrachloroethene	ND	1.0		ug/L			06/01/22 05:03	
Toluene	ND	1.0		ug/L			06/01/22 05:03	
trans-1,2-Dichloroethene	ND	1.0		ug/L			06/01/22 05:03	
trans-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 05:03	
trans-1,4-Dichloro-2-butene	ND	5.0		ug/L			06/01/22 05:03	
Trichloroethene	ND	1.0		ug/L			06/01/22 05:03	
Trichlorofluoromethane	ND	1.0		ug/L			06/01/22 05:03	
Vinyl acetate	ND	5.0		ug/L			06/01/22 05:03	
Vinyl chloride	ND	1.0		ug/L			06/01/22 05:03	

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Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-17S

Lab Sample ID: 480-198235-10

Matrix: Water

Date Collected: 05/23/22 12:15 Date Received: 05/23/22 17:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		06/01/22 05:03	1
4-Bromofluorobenzene (Surr)	97		73 - 120		06/01/22 05:03	1
Toluene-d8 (Surr)	96		80 - 120		06/01/22 05:03	1

Method: Field Sampling - Field	d Sampling							
Analyte	Result Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	122			millivolts			05/23/22 12:15	1
pH, Field	7.35			SU			05/23/22 12:15	1
Temperature, Field (C)	3.3			Degrees C			05/23/22 12:15	1
Field Conductivity	433			umhos/cm			05/23/22 12:15	1
Turbidity	3.9			NTU			05/23/22 12:15	1

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-21

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198235-11 Date Collected: 05/23/22 14:05

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/01/22 05:26	
1,1,1-Trichloroethane	0.97	J	1.0	0.82	ug/L			06/01/22 05:26	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/22 05:26	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/22 05:26	
1,1-Dichloroethane	27		1.0	0.38	ug/L			06/01/22 05:26	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/22 05:26	
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/01/22 05:26	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/22 05:26	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/22 05:26	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/22 05:26	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/01/22 05:26	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/01/22 05:26	
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/01/22 05:26	
2-Butanone	ND		10	1.3	ug/L			06/01/22 05:26	
2-Hexanone	ND		5.0		ug/L			06/01/22 05:26	
4-Methyl-2-pentanone	ND		5.0	2.1				06/01/22 05:26	
Acetone	ND		10		ug/L			06/01/22 05:26	
Acrylonitrile	ND		5.0		ug/L			06/01/22 05:26	
Benzene	ND		1.0	0.41				06/01/22 05:26	
Bromochloromethane	ND		1.0	0.87	•			06/01/22 05:26	
Bromodichloromethane	ND		1.0	0.39	•			06/01/22 05:26	
Bromoform	ND		1.0		ug/L			06/01/22 05:26	
Bromomethane	ND		1.0	0.69				06/01/22 05:26	
Carbon disulfide	ND		1.0	0.19	-			06/01/22 05:26	
Carbon tetrachloride	ND		1.0		ug/L			06/01/22 05:26	
Chlorobenzene	ND		1.0		ug/L			06/01/22 05:26	
Chloroethane	9.0		1.0		ug/L			06/01/22 05:26	
Chloroform	ND		1.0		ug/L			06/01/22 05:26	
Chloromethane	ND		1.0		ug/L			06/01/22 05:26	
cis-1,2-Dichloroethene	49		1.0	0.81	-			06/01/22 05:26	
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 05:26	
Dibromochloromethane	ND		1.0		ug/L			06/01/22 05:26	
Dibromomethane	ND		1.0		ug/L			06/01/22 05:26	
Ethylbenzene	ND		1.0	0.74	ug/L			06/01/22 05:26	
Iodomethane	ND		1.0		ug/L			06/01/22 05:26	
m,p-Xylene	ND		2.0		ug/L			06/01/22 05:26	
Methylene Chloride	ND		1.0		ug/L			06/01/22 05:26	
o-Xylene	ND		1.0		ug/L			06/01/22 05:26	
Styrene	ND		1.0		ug/L			06/01/22 05:26	
Tetrachloroethene	0.66		1.0		ug/L			06/01/22 05:26	
Toluene	ND	3	1.0		ug/L			06/01/22 05:26	
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 05:26	
trans-1,3-Dichloropropene	ND ND		1.0		ug/L			06/01/22 05:26	
trans-1,4-Dichloro-2-butene	ND ND		5.0		ug/L ug/L			06/01/22 05:26	
			1.0		ug/L ug/L			06/01/22 05:26	
Trichloroethene Trichlorofluoromethane	4.0 ND								
	ND		1.0		ug/L			06/01/22 05:26	
Vinyl acetate Vinyl chloride	ND ND		5.0 1.0		ug/L ug/L			06/01/22 05:26 06/01/22 05:26	

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Date Collected: 05/23/22 14:05

Date Received: 05/23/22 17:00

Client Sample ID: MW-21

Lab Sample ID: 480-198235-11

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120	-		06/01/22 05:26	1
4-Bromofluorobenzene (Surr)	106		73 - 120			06/01/22 05:26	1
Toluene-d8 (Surr)	92		80 - 120			06/01/22 05:26	1

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Method: Field Sampling - Field Analyte	d Sampling Result Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	113			millivolts		· ·	05/23/22 14:05	1
pH, Field	7.77			SU			05/23/22 14:05	1
Temperature, Field (C)	3.9			Degrees C			05/23/22 14:05	1
Field Conductivity	998			umhos/cm			05/23/22 14:05	1
Turbidity	1.3			NTU			05/23/22 14:05	1

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Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-22

Lab Sample ID: 480-198235-12 Date Collected: 05/23/22 14:15

Matrix: Water

Method: 8260C - Volatile Organic								
Analyte	Result	Qualifier RL		Unit	<u>D</u> _	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	0.35	ug/L			06/01/22 05:49	1
1,1,1-Trichloroethane	2.0	1.0	0.82	ug/L			06/01/22 05:49	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			06/01/22 05:49	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			06/01/22 05:49	1
1,1-Dichloroethane	2.7	1.0	0.38	ug/L			06/01/22 05:49	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			06/01/22 05:49	1
1,2,3-Trichloropropane	ND	1.0	0.89	ug/L			06/01/22 05:49	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			06/01/22 05:49	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			06/01/22 05:49	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			06/01/22 05:49	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			06/01/22 05:49	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			06/01/22 05:49	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			06/01/22 05:49	1
2-Butanone	ND	10	1.3	ug/L			06/01/22 05:49	1
2-Hexanone	ND	5.0		ug/L			06/01/22 05:49	1
4-Methyl-2-pentanone	ND	5.0	2.1	ug/L			06/01/22 05:49	1
Acetone	ND	10		ug/L			06/01/22 05:49	1
Acrylonitrile	ND	5.0		ug/L			06/01/22 05:49	1
Benzene	ND	1.0		ug/L			06/01/22 05:49	
Bromochloromethane	ND	1.0		ug/L			06/01/22 05:49	1
Bromodichloromethane	ND	1.0		ug/L			06/01/22 05:49	1
Bromoform	ND	1.0		ug/L			06/01/22 05:49	1
Bromomethane	ND	1.0		ug/L			06/01/22 05:49	1
Carbon disulfide	ND	1.0		ug/L			06/01/22 05:49	1
Carbon tetrachloride	ND	1.0		ug/L			06/01/22 05:49	1
Chlorobenzene	ND	1.0		ug/L			06/01/22 05:49	1
Chloroethane	ND	1.0		ug/L			06/01/22 05:49	1
Chloroform	ND	1.0		ug/L			06/01/22 05:49	
Chloromethane	ND	1.0		ug/L			06/01/22 05:49	1
cis-1,2-Dichloroethene	ND	1.0		ug/L			06/01/22 05:49	1
cis-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 05:49	
Dibromochloromethane	ND	1.0		ug/L			06/01/22 05:49	1
Dibromomethane	ND			-			06/01/22 05:49	1
		1.0		ug/L				
Ethylbenzene	ND	1.0		ug/L			06/01/22 05:49	
lodomethane	ND	1.0		ug/L			06/01/22 05:49	
m,p-Xylene	ND	2.0		ug/L			06/01/22 05:49	
Methylene Chloride	ND	1.0		ug/L			06/01/22 05:49	1
o-Xylene	ND	1.0		ug/L			06/01/22 05:49	1
Styrene	ND	1.0		ug/L			06/01/22 05:49	1
Tetrachloroethene	ND	1.0		ug/L			06/01/22 05:49	1
Toluene	ND	1.0		ug/L			06/01/22 05:49	1
trans-1,2-Dichloroethene	ND	1.0		ug/L			06/01/22 05:49	1
trans-1,3-Dichloropropene	ND	1.0		ug/L			06/01/22 05:49	1
trans-1,4-Dichloro-2-butene	ND	5.0		ug/L			06/01/22 05:49	1
Trichloroethene	ND	1.0		ug/L			06/01/22 05:49	1
Trichlorofluoromethane	ND	1.0		ug/L			06/01/22 05:49	1
Vinyl acetate	ND	5.0	0.85	ug/L			06/01/22 05:49	1
Vinyl chloride	ND	1.0	0.90	ug/L			06/01/22 05:49	1

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Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-22

Lab Sample ID: 480-198235-12

Matrix: Water

Date Collected: 05/23/22 14:15 Date Received: 05/23/22 17:00

S	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1	,2-Dichloroethane-d4 (Surr)	91		77 - 120	_		06/01/22 05:49	1
4	-Bromofluorobenzene (Surr)	103		73 - 120			06/01/22 05:49	1
7	Toluene-d8 (Surr)	96		80 - 120			06/01/22 05:49	1

Method: Field Sampling - Field	d Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	85				millivolts			05/23/22 14:15	1
pH, Field	6.93				SU			05/23/22 14:15	1
Temperature, Field (C)	2.2				Degrees C			05/23/22 14:15	1
Field Conductivity	248				umhos/cm			05/23/22 14:15	1
Turbidity	5.5				NTU			05/23/22 14:15	1

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Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-23

Lab Sample ID: 480-198235-13

Matrix: Water

Date Received: 05/23/22 17:00	Date Collected: 05/23/22 12:00	
	Date Received: 05/23/22 17:00	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/01/22 06:12	
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/01/22 06:12	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/22 06:12	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/22 06:12	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/01/22 06:12	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/22 06:12	
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/01/22 06:12	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/22 06:12	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/22 06:12	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/22 06:12	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/01/22 06:12	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/01/22 06:12	
1,4-Dichlorobenzene	ND		1.0		ug/L			06/01/22 06:12	
2-Butanone	ND		10		ug/L			06/01/22 06:12	
2-Hexanone	ND		5.0		ug/L			06/01/22 06:12	
4-Methyl-2-pentanone	ND		5.0		ug/L			06/01/22 06:12	
Acetone	ND		10		ug/L			06/01/22 06:12	
Acrylonitrile	ND		5.0	0.83	•			06/01/22 06:12	
Benzene	ND		1.0		ug/L			06/01/22 06:12	
Bromochloromethane	ND		1.0	0.41	-			06/01/22 06:12	
Bromodichloromethane	ND ND		1.0	0.39				06/01/22 06:12	
Bromoform	ND							06/01/22 06:12	
			1.0	0.26					
Bromomethane	ND		1.0	0.69				06/01/22 06:12	
Carbon disulfide	ND		1.0		ug/L			06/01/22 06:12	
Carbon tetrachloride	ND		1.0	0.27				06/01/22 06:12	
Chlorobenzene	ND		1.0	0.75				06/01/22 06:12	
Chloroethane	ND		1.0	0.32				06/01/22 06:12	
Chloroform	ND		1.0	0.34				06/01/22 06:12	
Chloromethane	ND		1.0	0.35				06/01/22 06:12	
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 06:12	
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 06:12	
Dibromochloromethane	ND		1.0	0.32	ug/L			06/01/22 06:12	
Dibromomethane	ND		1.0	0.41	ug/L			06/01/22 06:12	
Ethylbenzene	ND		1.0		ug/L			06/01/22 06:12	
lodomethane	ND		1.0	0.30	ug/L			06/01/22 06:12	
m,p-Xylene	ND		2.0	0.66	ug/L			06/01/22 06:12	
Methylene Chloride	ND		1.0	0.44	ug/L			06/01/22 06:12	
o-Xylene	ND		1.0	0.76	ug/L			06/01/22 06:12	
Styrene	ND		1.0	0.73	ug/L			06/01/22 06:12	
Tetrachloroethene	ND		1.0	0.36	ug/L			06/01/22 06:12	
Toluene	ND		1.0	0.51	ug/L			06/01/22 06:12	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/01/22 06:12	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/01/22 06:12	
rans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			06/01/22 06:12	
Trichloroethene	ND		1.0	0.46	ug/L			06/01/22 06:12	
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/01/22 06:12	
Vinyl acetate	ND		5.0	0.85	_			06/01/22 06:12	
Vinyl chloride	ND		1.0		ug/L			06/01/22 06:12	

Eurofins Buffalo

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14

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-23 Lab Sample ID: 480-198235-13

Date Collected: 05/23/22 12:00 **Matrix: Water**

Date Received: 05/23/22 17:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	77 - 120		06/01/22 06:12	1
4-Bromofluorobenzene (Surr)	102	73 - 120		06/01/22 06:12	1
Toluene-d8 (Surr)	91	80 - 120		06/01/22 06:12	1

Method: Field Sampling - Field	d Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	79				millivolts			05/23/22 12:00	1
pH, Field	6.85				SU			05/23/22 12:00	1
Temperature, Field (C)	1.1				Degrees C			05/23/22 12:00	1
Field Conductivity	160				umhos/cm			05/23/22 12:00	1
Turbidity	1.0				NTU			05/23/22 12:00	1

Surrogate Summary

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Surroga	te Recovery (Acceptance Limits)
		DCA	BFB	TOL	
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	
480-198235-1	Trip Blank	91	108	96	
480-198235-2	DUP Y	91	104	92	
480-198235-3	MW-14I	87	101	92	
480-198235-4	MW-14S	87	103	91	
480-198235-5	MW-15I	92	102	93	
480-198235-5 MS	MW-15I	92	106	97	
480-198235-5 MSD	MW-15I	93	101	95	
480-198235-6	MW-15S	87	105	99	
480-198235-7	MW-16I	92	101	94	
480-198235-8	MW-16S	98	100	93	
480-198235-9	MW-17I	96	109	94	
480-198235-10	MW-17S	94	97	96	
480-198235-11	MW-21	89	106	92	
480-198235-12	MW-22	91	103	96	
480-198235-13	MW-23	92	102	91	
LCS 480-628185/6	Lab Control Sample	91	101	92	
MB 480-628185/8	Method Blank	87	103	96	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Eurofins Buffalo

6/10/2022

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-628185/8

Matrix: Water

Client Sample ID: Method Blank
Prep Type: Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/01/22 00:25	
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/01/22 00:25	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/22 00:25	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/22 00:25	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/01/22 00:25	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/22 00:25	
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/01/22 00:25	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/22 00:25	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/22 00:25	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/22 00:25	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/01/22 00:25	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/01/22 00:25	
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/01/22 00:25	
2-Butanone	ND		10	1.3	ug/L			06/01/22 00:25	
2-Hexanone	ND		5.0	1.2	ug/L			06/01/22 00:25	
4-Methyl-2-pentanone	ND		5.0	2.1	ug/L			06/01/22 00:25	
Acetone	ND		10	3.0	ug/L			06/01/22 00:25	
Acrylonitrile	ND		5.0	0.83	ug/L			06/01/22 00:25	
Benzene	ND		1.0	0.41	ug/L			06/01/22 00:25	
Bromochloromethane	ND		1.0	0.87	ug/L			06/01/22 00:25	
Bromodichloromethane	ND		1.0	0.39	ug/L			06/01/22 00:25	
Bromoform	ND		1.0		ug/L			06/01/22 00:25	
Bromomethane	ND		1.0	0.69	ug/L			06/01/22 00:25	
Carbon disulfide	ND		1.0		ug/L			06/01/22 00:25	
Carbon tetrachloride	ND		1.0	0.27				06/01/22 00:25	
Chlorobenzene	ND		1.0	0.75				06/01/22 00:25	
Chloroethane	ND		1.0	0.32				06/01/22 00:25	
Chloroform	ND		1.0	0.34				06/01/22 00:25	
Chloromethane	ND		1.0		ug/L			06/01/22 00:25	
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/01/22 00:25	
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/01/22 00:25	
Dibromochloromethane	ND		1.0	0.32	_			06/01/22 00:25	
Dibromomethane	ND		1.0		ug/L			06/01/22 00:25	
Ethylbenzene	ND		1.0		ug/L			06/01/22 00:25	
Iodomethane	ND		1.0		ug/L			06/01/22 00:25	
m,p-Xylene	ND		2.0	0.66	-			06/01/22 00:25	
Methylene Chloride	ND		1.0	0.44				06/01/22 00:25	
o-Xylene	ND		1.0	0.76				06/01/22 00:25	
Styrene	ND		1.0	0.73	-			06/01/22 00:25	
Tetrachloroethene	ND		1.0	0.36				06/01/22 00:25	
Toluene	ND		1.0	0.51				06/01/22 00:25	
trans-1,2-Dichloroethene	ND		1.0		ug/L ug/L			06/01/22 00:25	
trans-1,3-Dichloropropene	ND		1.0	0.37				06/01/22 00:25	
trans-1,4-Dichloro-2-butene	ND ND		5.0	0.37				06/01/22 00:25	
Trichloroethene	ND ND		1.0					06/01/22 00:25	
Trichlorofluoromethane				0.46					
	ND ND		1.0	0.88				06/01/22 00:25	
Vinyl acetate Vinyl chloride	ND ND		5.0 1.0	0.85	ug/L ug/L			06/01/22 00:25 06/01/22 00:25	

80 - 120

Client: Cattaraugus County

Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

96

Lab Sample ID: MB 480-628185/8

Matrix: Water

Surrogate

Analysis Batch: 628185

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Client Sample ID: Method Blank Prep Type: Total/NA

06/01/22 00:25

 MB
 MB

 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 87
 77 - 120
 06/01/22 00:25
 1

 103
 73 - 120
 06/01/22 00:25
 1

Lab Sample ID: LCS 480-628185/6

Matrix: Water

o-Xylene

Styrene

Toluene-d8 (Surr)

Analysis Batch: 628185

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Analysis Batom 525 100						
Analyte	Spike Added	LCS LC Result Qu		D %Rec	%Rec Limits	
1,1,1,2-Tetrachloroethane		23.8	ug/L	<u>B</u>	80 ₋ 120	
1,1,1-Trichloroethane	25.0	26.7	ug/L	107	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	19.5	ug/L	78	76 ₋ 120	
1,1,2-Trichloroethane	25.0	21.2	ug/L ug/L	85	76 - 120	
1.1-Dichloroethane	25.0	22.8	ug/L	91	70 - 122 77 - 120	
1.1-Dichloroethene	25.0 25.0	22.6	_	90	77 - 120 66 - 127	
<u> </u>		21.5	ug/L		68 - 122	
1,2,3-Trichloropropane	25.0		ug/L	86		
1,2-Dibromo-3-Chloropropane	25.0	20.3	ug/L	81	56 - 134	
1,2-Dibromoethane	25.0	23.8	ug/L	95	77 - 120	
1,2-Dichlorobenzene	25.0	23.2	ug/L 	93	80 - 124	
1,2-Dichloroethane	25.0	24.5	ug/L	98	75 - 120	
1,2-Dichloropropane	25.0	22.9	ug/L	92	76 - 120	
1,4-Dichlorobenzene	25.0	23.8	ug/L	95	80 - 120	
2-Butanone	125	123	ug/L	98	57 - 140	
2-Hexanone	125	109	ug/L	87	65 - 127	
4-Methyl-2-pentanone	125	91.4	ug/L	73	71 ₋ 125	
Acetone	125	156	ug/L	125	56 - 142	
Acrylonitrile	250	206	ug/L	83	63 - 125	
Benzene	25.0	23.7	ug/L	95	71 - 124	
Bromochloromethane	25.0	27.3	ug/L	109	72 - 130	
Bromodichloromethane	25.0	26.1	ug/L	104	80 - 122	
Bromoform	25.0	20.8	ug/L	83	61 - 132	
Bromomethane	25.0	26.5	ug/L	106	55 - 144	
Carbon disulfide	25.0	20.5	ug/L	82	59 - 134	
Carbon tetrachloride	25.0	25.7	ug/L	103	72 - 134	
Chlorobenzene	25.0	22.4	ug/L	90	80 - 120	
Chloroethane	25.0	21.6	ug/L	86	69 - 136	
Chloroform	25.0	25.2	ug/L	101	73 _ 127	
Chloromethane	25.0	20.9	ug/L	83	68 - 124	
cis-1,2-Dichloroethene	25.0	24.1	ug/L	96	74 - 124	
cis-1,3-Dichloropropene	25.0	24.8	ug/L	99	74 - 124	
Dibromochloromethane	25.0	24.4	ug/L	97	75 - 125	
Dibromomethane	25.0	25.6	ug/L	102	76 - 127	
Ethylbenzene	25.0	22.0	ug/L	88	77 - 123	
Iodomethane	25.0	25.3	ug/L	101	78 - 123	
m,p-Xylene	25.0	23.7	ug/L	95	76 - 122	
Methylene Chloride	25.0	23.2	ug/L	93	75 - 124	
montylone enlined	25.0	20.2	ug/L	30	10-12-	

Eurofins Buffalo

76 - 122

80 - 120

22.1

21.4

ug/L

ug/L

25.0

25.0

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15

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-628185/6

Matrix: Water

Analysis Batch: 628185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Tetrachloroethene	25.0	22.3		ug/L		89	74 - 122	
Toluene	25.0	21.6		ug/L		86	80 - 122	
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127	
trans-1,3-Dichloropropene	25.0	21.8		ug/L		87	80 - 120	
trans-1,4-Dichloro-2-butene	25.0	13.7		ug/L		55	41 - 131	
Trichloroethene	25.0	25.6		ug/L		102	74 - 123	
Trichlorofluoromethane	25.0	26.1		ug/L		104	62 - 150	
Vinyl acetate	50.0	47.0		ug/L		94	50 - 144	
Vinyl chloride	25.0	21.5		ua/L		86	65 - 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	92		80 ₋ 120

Lab Sample ID: 480-198235-5 MS

Matrix: Water

Analysis Batch: 628185

Client Sample ID: MW-15I	
Prep Type: Total/NA	

	Sample S	sample Spike	MS	MS				%Rec
Analyte	Result C	Qualifier Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	ND	25.0	27.3		ug/L		109	80 - 120
1,1,1-Trichloroethane	ND	25.0	30.7		ug/L		123	73 - 126
1,1,2,2-Tetrachloroethane	ND	25.0	23.2		ug/L		93	76 - 120
1,1,2-Trichloroethane	ND	25.0	24.3		ug/L		97	76 - 122
1,1-Dichloroethane	1.5	25.0	25.9		ug/L		98	77 - 120
1,1-Dichloroethene	ND	25.0	25.6		ug/L		103	66 - 127
1,2,3-Trichloropropane	ND	25.0	23.6		ug/L		94	68 - 122
1,2-Dibromo-3-Chloropropane	ND	25.0	25.6		ug/L		102	56 - 134
1,2-Dibromoethane	ND	25.0	26.4		ug/L		106	77 - 120
1,2-Dichlorobenzene	ND	25.0	27.1		ug/L		108	80 - 124
1,2-Dichloroethane	ND	25.0	26.2		ug/L		105	75 - 120
1,2-Dichloropropane	ND	25.0	24.6		ug/L		98	76 - 120
I,4-Dichlorobenzene	ND	25.0	24.9		ug/L		100	78 - 124
2-Butanone	ND	125	141		ug/L		112	57 - 140
2-Hexanone	ND	125	132		ug/L		105	65 - 127
1-Methyl-2-pentanone	ND	125	110		ug/L		88	71 - 125
Acetone	ND	125	174		ug/L		139	56 - 142
Acrylonitrile	ND	250	226		ug/L		90	63 - 125
Benzene	ND	25.0	24.9		ug/L		100	71 - 124
Bromochloromethane	ND	25.0	29.5		ug/L		118	72 - 130
Bromodichloromethane	ND	25.0	26.9		ug/L		107	80 - 122
Bromoform	ND	25.0	24.2		ug/L		97	61 - 132
Bromomethane	ND	25.0	22.9		ug/L		92	55 - 144
Carbon disulfide	ND	25.0	22.4		ug/L		90	59 - 134
Carbon tetrachloride	ND	25.0	29.9		ug/L		120	72 - 134
Chlorobenzene	ND	25.0	25.2		ug/L		101	80 - 120
Chloroethane	0.43 J	25.0	22.1		ug/L		87	69 - 136
Chloroform	ND	25.0	27.8		ug/L		111	73 - 127

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-198235-5 MS

Matrix: Water

Analysis Batch: 628185

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloromethane	ND		25.0	21.2		ug/L		85	68 - 124	
cis-1,2-Dichloroethene	ND		25.0	27.1		ug/L		109	74 - 124	
cis-1,3-Dichloropropene	ND		25.0	21.5		ug/L		86	74 - 124	
Dibromochloromethane	ND		25.0	26.1		ug/L		104	75 - 125	
Dibromomethane	ND		25.0	27.5		ug/L		110	76 - 127	
Ethylbenzene	ND		25.0	25.0		ug/L		100	77 - 123	
Iodomethane	ND		25.0	27.5		ug/L		110	78 - 123	
m,p-Xylene	ND		25.0	26.1		ug/L		104	76 - 122	
Methylene Chloride	ND		25.0	26.0		ug/L		104	75 - 124	
o-Xylene	ND		25.0	24.8		ug/L		99	76 - 122	
Styrene	ND		25.0	23.0		ug/L		92	80 - 120	
Tetrachloroethene	ND		25.0	25.8		ug/L		103	74 - 122	
Toluene	ND		25.0	24.8		ug/L		99	80 - 122	
trans-1,2-Dichloroethene	ND		25.0	24.2		ug/L		97	73 - 127	
trans-1,3-Dichloropropene	ND	F1	25.0	19.8	F1	ug/L		79	80 - 120	

25.0

25.0

25.0

50.0

25.0

10.3

27.9

25.0

29.2

22.4

ug/L

ug/L

ug/L

ug/L

ug/L

MS MS

ND

ND

ND

ND

ND

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92	77 - 120
4-Bromofluorobenzene (Surr)	106	73 - 120
Toluene-d8 (Surr)	97	80 - 120

Lab Sample ID: 480-198235-5 MSD

Matrix: Water

Analysis Batch: 628185

trans-1,4-Dichloro-2-butene

Trichlorofluoromethane

Trichloroethene

Vinyl acetate

Vinyl chloride

Analysis Batch: 628185	0	01-	0	MOD	MOD				0/ D		DDD
	•	Sample	Spike		MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	ND		25.0	28.3		ug/L		113	80 - 120	3	20
1,1,1-Trichloroethane	ND		25.0	33.0	F1	ug/L		132	73 - 126	7	15
1,1,2,2-Tetrachloroethane	ND		25.0	21.6		ug/L		87	76 - 120	7	15
1,1,2-Trichloroethane	ND		25.0	24.0		ug/L		96	76 - 122	1	15
1,1-Dichloroethane	1.5		25.0	27.6		ug/L		105	77 - 120	6	20
1,1-Dichloroethene	ND		25.0	26.3		ug/L		105	66 - 127	3	16
1,2,3-Trichloropropane	ND		25.0	23.6		ug/L		94	68 - 122	0	14
1,2-Dibromo-3-Chloropropane	ND		25.0	22.4		ug/L		90	56 - 134	13	15
1,2-Dibromoethane	ND		25.0	26.6		ug/L		107	77 - 120	1	15
1,2-Dichlorobenzene	ND		25.0	25.9		ug/L		104	80 - 124	4	20
1,2-Dichloroethane	ND		25.0	27.2		ug/L		109	75 - 120	4	20
1,2-Dichloropropane	ND		25.0	25.9		ug/L		104	76 - 120	5	20
1,4-Dichlorobenzene	ND		25.0	26.0		ug/L		104	78 - 124	4	20
2-Butanone	ND		125	151		ug/L		121	57 - 140	7	20
2-Hexanone	ND		125	141		ug/L		113	65 - 127	7	15
4-Methyl-2-pentanone	ND		125	116		ug/L		93	71 - 125	5	35
Acetone	ND		125	173		ug/L		138	56 - 142	1	15

Prep Type: Total/NA

Client Sample ID: MW-15I

41 - 131

74 - 123

62 - 150

50 - 144

65 - 133

Client Sample ID: MW-15I

Prep Type: Total/NA

41

112

100

58

MSD MSD

Client: Cattaraugus County Job ID: 480-198235-1

Spike

Project/Site: Farwell Landfill - GW Baseline Volatiles

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Sample Sample

Lab Sample ID: 480-198235-5 MSD

Matrix: Water

Methylene Chloride

Tetrachloroethene

Trichloroethene

Vinyl acetate

Vinyl chloride

trans-1,2-Dichloroethene trans-1,3-Dichloropropene

Trichlorofluoromethane

trans-1,4-Dichloro-2-butene

o-Xylene

Styrene

Toluene

Analysis Batch: 628185

Client Sample ID: MW-15I

%Rec

100

99

97

102

99

106

79

44

118

114

60

100

75 - 124

76 - 122

80 - 120

74 - 122

80 - 122

73 - 127

80 - 120

41 - 131

74 - 123

62 _ 150

50 - 144

65 - 133

Prep Type: Total/NA

Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acrylonitrile	ND ND	250	239		ug/L		96	63 - 125	6	20
Benzene	ND	25.0	27.0		ug/L		108	71 - 124	8	13
Bromochloromethane	ND	25.0	30.3		ug/L		121	72 - 130	3	15
Bromodichloromethane	ND	25.0	27.9		ug/L		111	80 - 122	4	15
Bromoform	ND	25.0	24.4		ug/L		98	61 - 132	1	15
Bromomethane	ND	25.0	25.0		ug/L		100	55 - 144	9	15
Carbon disulfide	ND	25.0	23.0		ug/L		92	59 - 134	2	15
Carbon tetrachloride	ND	25.0	30.7		ug/L		123	72 - 134	2	15
Chlorobenzene	ND	25.0	24.9		ug/L		100	80 - 120	1	25
Chloroethane	0.43 J	25.0	24.6		ug/L		97	69 - 136	11	15
Chloroform	ND	25.0	28.3		ug/L		113	73 - 127	2	20
Chloromethane	ND	25.0	22.8		ug/L		91	68 - 124	7	15
cis-1,2-Dichloroethene	ND	25.0	28.6		ug/L		114	74 - 124	5	15
cis-1,3-Dichloropropene	ND	25.0	22.5		ug/L		90	74 - 124	5	15
Dibromochloromethane	ND	25.0	26.1		ug/L		104	75 - 125	0	15
Dibromomethane	ND	25.0	29.8		ug/L		119	76 - 127	8	15
Ethylbenzene	ND	25.0	24.9		ug/L		100	77 - 123	0	15
Iodomethane	ND	25.0	28.4		ug/L		114	78 - 123	3	20
m,p-Xylene	ND	25.0	26.1		ug/L		105	76 - 122	0	16

25.0

25.0

25.0

25.0

25.0

25.0

25.0

25.0

25.0

25.0

50.0

25.0

25.0

24.8

24.3

25.5

24.8

26.5

11.0

29.5

28.4

30.1

25.0

19.6 F1

ug/L

MSD MSD

ND

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93	77 - 120
4-Bromofluorobenzene (Surr)	101	73 - 120
Toluene-d8 (Surr)	95	80 - 120

Eurofins Buffalo

RPD

15

16

20

20

15

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QC Association Summary

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

GC/MS VOA

Analysis Batch: 628185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198235-1	Trip Blank	Total/NA	Water	8260C	
480-198235-2	DUP Y	Total/NA	Water	8260C	
480-198235-3	MW-14I	Total/NA	Water	8260C	
480-198235-4	MW-14S	Total/NA	Water	8260C	
480-198235-5	MW-15I	Total/NA	Water	8260C	
480-198235-6	MW-15S	Total/NA	Water	8260C	
480-198235-7	MW-16I	Total/NA	Water	8260C	
480-198235-8	MW-16S	Total/NA	Water	8260C	
480-198235-9	MW-17I	Total/NA	Water	8260C	
480-198235-10	MW-17S	Total/NA	Water	8260C	
480-198235-11	MW-21	Total/NA	Water	8260C	
480-198235-12	MW-22	Total/NA	Water	8260C	
480-198235-13	MW-23	Total/NA	Water	8260C	
MB 480-628185/8	Method Blank	Total/NA	Water	8260C	
LCS 480-628185/6	Lab Control Sample	Total/NA	Water	8260C	
480-198235-5 MS	MW-15I	Total/NA	Water	8260C	
480-198235-5 MSD	MW-15I	Total/NA	Water	8260C	

Field Service / Mobile Lab

Analysis Batch: 628351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
480-198235-2	DUP Y	Total/NA	Water	Field Sampling	
480-198235-3	MW-14I	Total/NA	Water	Field Sampling	
480-198235-4	MW-14S	Total/NA	Water	Field Sampling	
480-198235-5	MW-15I	Total/NA	Water	Field Sampling	
480-198235-6	MW-15S	Total/NA	Water	Field Sampling	
480-198235-7	MW-16I	Total/NA	Water	Field Sampling	
480-198235-8	MW-16S	Total/NA	Water	Field Sampling	
480-198235-9	MW-17I	Total/NA	Water	Field Sampling	
480-198235-10	MW-17S	Total/NA	Water	Field Sampling	
480-198235-11	MW-21	Total/NA	Water	Field Sampling	
480-198235-12	MW-22	Total/NA	Water	Field Sampling	
480-198235-13	MW-23	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: Trip Blank

Lab Sample ID: 480-198235-1 Date Collected: 05/23/22 00:00

Matrix: Water

Date Received: 05/23/22 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 01:34	CR	TAL BUF

Client Sample ID: DUP Y Lab Sample ID: 480-198235-2

Date Collected: 05/23/22 12:35 **Matrix: Water**

Date Received: 05/23/22 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 01:57	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 12:35	FLD	TAL BUF

Client Sample ID: MW-14I Lab Sample ID: 480-198235-3

Date Collected: 05/23/22 13:30 **Matrix: Water**

Date Received: 05/23/22 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 02:20	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 13:30	FLD	TAL BUF

Lab Sample ID: 480-198235-4 Client Sample ID: MW-14S

Date Collected: 05/23/22 13:45 **Matrix: Water**

Date Received: 05/23/22 17:00

		Batch	Batch		Dilution	Batch	Prepared		
ı	Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
-	Total/NA	Analysis	8260C		1	628185	06/01/22 02:43	CR	TAL BUF
-	Γotal/NA	Analysis	Field Sampling		1	628351	05/23/22 13:45	FLD	TAL BUF

Client Sample ID: MW-15I Lab Sample ID: 480-198235-5

Date Collected: 05/23/22 13:15 **Matrix: Water**

Date Received: 05/23/22 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 03:06	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 13:15	FLD	TAL BUF

Client Sample ID: MW-15S Lab Sample ID: 480-198235-6

Date Collected: 05/23/22 13:00 **Matrix: Water**

Date Received: 05/23/22 17:00

	Batch	tch Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 03:30	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 13:00	FLD	TAL BUF

Client: Cattaraugus County

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-16I

Date Collected: 05/23/22 12:45 Date Received: 05/23/22 17:00 Lab Sample ID: 480-198235-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 03:53	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 12:45	FLD	TAL BUF

Client Sample ID: MW-16S

Date Collected: 05/23/22 12:35

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198235	-8
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 04:16	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 12:35	FLD	TAL BUF

Client Sample ID: MW-17I

Date Collected: 05/23/22 12:25

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198235-9

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 04:39	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 12:25	FLD	TAL BUF

Client Sample ID: MW-17S

Date Collected: 05/23/22 12:15

Date Received: 05/23/22 17:00

Lab Sample	ID: 480-	198235-10
Lab Callible	ID. TOU-	130200-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 05:03	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 12:15	FLD	TAL BUF

Client Sample ID: MW-21

Date Collected: 05/23/22 14:05

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198	3235-11
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628185	06/01/22 05:26	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 14:05	FLD	TAL BUF

Client Sample ID: MW-22

Date Collected: 05/23/22 14:15

Date Received: 05/23/22 17:00

Lab Samı	ole ID:	480-1	98235-	12
Lab Calli	JIC ID.	TUU- I	JUE 00-	-

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			628185	06/01/22 05:49	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 14:15	FLD	TAL BUF

Lab Chronicle

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Client Sample ID: MW-23 Lab Sample ID: 480-198235-13

Matrix: Water

Date Collected: 05/23/22 12:00 Date Received: 05/23/22 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			628185	06/01/22 06:12	CR	TAL BUF
Total/NA	Analysis	Field Sampling		1	628351	05/23/22 12:00	FLD	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Cattaraugus County Job ID: 480-198235-1

Project/Site: Farwell Landfill - GW Baseline Volatiles

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	rogram	Identification Number	Expiration Date
New York	N	ELAP	10026	03-31-23
the agency does not of	fer certification.	,	ed by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
Field Sampling		Water	Field Conductivity	
			E:-I-I ELUODD	
Field Sampling		Water	Field EH/ORP	
Field Sampling Field Sampling		Water Water	pH, Field	

Method Summary

Client: Cattaraugus County

Project/Site: Farwell Landfill - GW Baseline Volatiles

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Job ID: 480-198235-1

Sample Summary

Client: Cattaraugus County

480-198235-13

Project/Site: Farwell Landfill - GW Baseline Volatiles

MW-23

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198235-1	Trip Blank	Water	05/23/22 00:00	05/23/22 17:00
480-198235-2	DUP Y	Water	05/23/22 12:35	05/23/22 17:00
480-198235-3	MW-14I	Water	05/23/22 13:30	05/23/22 17:00
480-198235-4	MW-14S	Water	05/23/22 13:45	05/23/22 17:00
480-198235-5	MW-15I	Water	05/23/22 13:15	05/23/22 17:00
480-198235-6	MW-15S	Water	05/23/22 13:00	05/23/22 17:00
480-198235-7	MW-16I	Water	05/23/22 12:45	05/23/22 17:00
180-198235-8	MW-16S	Water	05/23/22 12:35	05/23/22 17:00
480-198235-9	MW-17I	Water	05/23/22 12:25	05/23/22 17:00
480-198235-10	MW-17S	Water	05/23/22 12:15	05/23/22 17:00
480-198235-11	MW-21	Water	05/23/22 14:05	05/23/22 17:00
480-198235-12	MW-22	Water	05/23/22 14:15	05/23/22 17:00

Water

05/23/22 12:00

05/23/22 17:00

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Job ID: 480-198235-1

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Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	,									Allenca
Cloud Information	Sampler.	14/410		Lab Pl	Lab PM: VanDette, Rvan T		Carrier Tracking No(s)	ng No(s):	COC No 480-173652-2691.1	-
Client Contact	Phone:			E-Mail.	VarDotto	oce or suggested to	State of Origin.		Page:	
Linda McAndrew			OISMA	Ryar	. vanDeneg	Ryan. VanDette@et.euroinsus.com			Job #	
Cattaraugus County						Analysis	ysis Requested			
Address: 8810 Route 242	Due Date Requested:								õ	W. Heyong
Ciry: Little Valley	TAT Requested (days):	ıys):							B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: NY, 14755	Compliance Project:	A Yes	∆ No		S.					P - Na204S Q - Na2SO3
Phone	Po # Purchase Order not	not requir			4				70	S - H2SO4 T - TSP Dodecahyd
Emait Ibmcandrew@cattco.org	WO#				(on	4.2			I - Ice J - Di Water	U - Acetone V - MCAA
Project Name Cattaraugus County/ Event Desc: FARWELL GW BASELINE Vo. 48003171	Project # 0. 48003171				10 90	огио			L-EDA	v - pri 4-5 Z - other (specify)
Site: New York	SSOW#:				Y) del	רכב וופנ			of cor	
	G	Sample	Sample Type (C=comp,	Matrix (wwater, Sesolid, Owysteroid,	betefili Filtered Fertom MSM TeldSampling	260B - (MOD)			otal Number	Coccial Instructions (Notes
Sample Identification	Sample Date		Preserva	Preservation Code:	4 X	8 4				ancholismon and a second and a
Trip Blank				Water					11/4	HCI
DUP Y	5/23/22	1.235	6	Water	X	K				
MW- 14I	-	1330	į.	Water	<i>λ</i> .	X				
MW- 14S		1345		Water	X	×				
MW-15I		1315		Water	X	×				
MW-15S		1300		Water	X.	Х				
MW-16I		江水		Water	X	×		480-15	480-198235 Chain of Custody	dy
MW-16S		1235		Water	۲	×			6	
MW-171		1215		Water	עי	X			MAS	
MW-17S		1215	/	Water	×	У				
MW-21	7	SOHI	*	Water	X	×			7	
ant	Poison B Unknown		Radiological		Sample	le Disposal (A fee Return To Client	essed if	samples are re	tained longer than 1 r. Archive For	nonth) Months
i, III, IV, Ol					Special	Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:			Time		Method	Method of Shipment		
Reinquished by MR Reinquished by.	Date/Time			Company	\ .	Received by Received by	of on Clast	Date/Time: S	(23/22 [-	Sompany
Reinquished by:	Date/Time:			Company	Recei	Received by		Date/Time:		Company
Custody Seals Intact Custody Seal No.		000				Solar Temperature(e) One of Other Remarks	and Other Remarks		1	

	Sampler		Lab PM:		Camer Tracking No(s)	o(s):	
Client Information	Min	N.	VanDette, Ryan T	. Ryan T			480-173652-2691.2
Client Contact Linda McAndrew	Phone:		E-Mail Ryan Var	E-Mail: Ryan.VanDette@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2	of 2
Company: Cattaraugus County		PWSID		An	Analysis Requested	# qor	
Address. 8810 Route 242	Due Date Requested:			N.		Preserva	
City. Little Valley	TAT Requested (days):					A - HCL B - NaOH C - Zn Acetate	M · Hexane N · None etate O · AsNaO2
State, Ztp: NY, 14755	Compliance Project: A Yes	∆ No	T	8.		D - Nitro	
Phone	PO#: Purchase Order not requir		(6	nətəms		G - Amchi H - Ascort	
Email lbmcandrew@cattco.org	WO#:			ne9 ble			
Project Name Cattaraugus County/ Event Desc: FARWELL GW BASELINE Vol 48003171	Project #: Vo. 48003171			PA Fie		K - EDTA	
Site New York	\$SOW#			(dom)		of con	
	- 07		Matrix (Wewster, Seroid, Commercial of Littered	MISM (morid gnildms2ble r (dOM) - 808		nedmuM listo	
Sample Identification	Sample Date Time	G=grab) BT=Tingue, A=A Preservation Code:		K			Special Instructions/Note:
MW-22	5/23/22 1415	9	Water	X			10 8 c. 161.
MW-23	-	-	Water	X		200	
15, MS	1315		Water	×			
Si_wsp	J 1315	7	Water	×		~	
						A (8)	
7 27 77 77 77 77							
Possible Hazard Identification Non-Hazard Flammable Skin Irritant F	Poison B Unknown	Radiological	<u>,, </u>	ample Disposal (A n	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Mor	nples are retained longer	r than 1 month) Months
sted: I, II, III, IV, Other			0)	Special Instructions/QC Requirements	Requirements:		
Empty Kit Relinquished by:	Date:		Time	I I	Method of Shipment	npment	
Relinquished by () () ()	Date/Time	රී	Company	Received by:	كا	Date/Time:	Company
Relinquished by	Date/Time.	රී	Company	Received by:	,	Date/Time:	Company
Relinquished by	Date/Time:	8	Company	Received by:		Date/Time:	Company



Telephone: 718-386-8143 Fax: 716-366-8092

enviroteknix@outlook.com

302 Lakeshore Drive East Dunkirk, New York USA 14048

LANDFILL MONITORING FIELD LOG SHEET

Facility:	Farwe	ell Landf	iil	22		Sample	Point ID:	MW-14i	<u> </u>
Field Pers	onnel:	<u>cs/cs</u>		-		Sample Ma	atrix:	Groundwate	er
Monitori	<u>Condition</u>	of Casing/ ed (X) Goo of Seal:			5/22/202 ged () Flush		_Time:		16:50
Purge info	Purge Met Surface Me Initial H2O Tot. Purges Observatio	hod; bas, Pt.; Level: 1 Gals:	Date/Time Date/Time Pump (X) Casing 50.5	e Started: e Ended: Dedicated: () Riser		85.1	Riser Diame (2" Conv. Far (4" Conv. Far Done Vol. Gar (3x) Vol. Gar Finish:	ctor = 0.163) ctor = 0.653)	
Monitorir	ng Well San Sampling N		Bailer		5/23/2022 : (X)Y ()N Vater: <u>50,2</u>		Time: Weather/Te	mp: Sun 57F	13:30
	Temp Ceislus	pH Std Units	Conductivity	Turbidity	ORP	D.Q.	Observations/C	haracteristics	
	7.2	7.93	u/s 1127	6.3	mV 142	mg/L 4.1	Clear		
,	Parameters	Sampled (For:		Baseline VOC	is .			
Comments									
9				ENVIROTE	(NIX SITE/PRO		GER SIGNATU	RE	\equiv

Environmental Field Service Company

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LANDFILL MONITORING FIELD LOG SHEET

Facility:	Farwe	ll Landfi	11			Sample	Point ID:	MW-14s	3
Field Pers	onnel:	CS/CS		-1		Sample M	atrix:	Groundwate	er
Monitori	ng Well Ins Condition		Ricor:	Date:	5/22/2022	2	Tîme:		16:45
	() Unlocke	ed (X) Goo of Seal:	d () Loose	•	ged () Flush I	Mount			
	(X) Good () Cracked	() None () Buried					
Purge Inf	ormation:		Date/Time		16:45		Riser Diame		
	Purze Meti		Bailer		17:00 Tubing: (X)Y			ctor = 0.163) ctor = 0.653)	
	Surface Me Initial H2O			() Riser			(* CO110.1 a	0.053)	
	Tot. Purged			Tot. Well I	<u>Depth, ft:</u> <u>Dryness: (X) \</u>		One Vol. Gal		
Comments	Observatio		Overall:	Clear	Start:	Clear	(3x) Vol. Gal Finish:	s: 5.4 Clear	
	g Well Sam			_				•	
VIOINCOIN	Sampling M		Bailer	Date: Dedicated:	5/23/2022 (X)V /)N		Time: Weather/Te	man Com Rep	13:45
	Field Data				Vater: 49.9		AAGGEUGE/ 16	mp: 5un 5/F	
	ı •	pH Std Units	U	Turbidity	ORP	D.O.	Observations/C	harecteristics	
	7.8		u/s 963	NTU 57.4	mV 122	mg/L 3.3	Clear/Lt Brov	vn	
	<u>Parameters</u>	Sampled I	<u>For:</u>		Baseline VOC	's			
			9						-
omments									
omments.				ENVIROTE	CNIX SITE/PRO	DIECT MAN	AGED CIGNAT	1100	

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LANDFILL MONITORING FIELD LOG SHEET

<u>Facility</u>	: Farwe	eli Landf	in	ı		Sample	Point ID:	MW-15	
Field Pen	sonnei:	CS/CS		_		Sample N	Matrix:	Groundwate	er
Monitor	() Unlock Condition	of Casing/ ed (X) Goo of Seal:			5/22/202 ged () Flush		_Time:		15:05
Purge In	formation:		Date/Time		15:09	5	Riser Diame	eter: 4"	
			Date/Time	Ended:	16:05	5		ctor = 0.163)	
	Purge Met	hod:	Pump	Dedicated	Tubing: (X)Y	()N		ctor = 0.163)	
	Surface Me		(X) Casing	() Riser		1415	(* COIII, 12	ctoi - 0.033)	
	<u>Initial H20</u>	Level:		Tot. Well		82.4	One Vol. Ga	le: 40 9	
	Tot. Purge	d Gals:			Dryness: () \		(3x) Vol. Ga		
	Observations: Overall:			Clear	Start:	Clear	Finish:	Clear	
Comment	<u>'5:</u>						- 7	91041	
<u>Monitori</u>	ng Well San Sampling N		Bailer [*]	Date: Dedicated: Depth to V	5/23/2022 :(X)Y ()N Vater: 20.2	!	Time: Weather/Te	mp: Sun 59F	13:15
	Temp	рH	Conductivity	Turbidity	ORP	D.O.	Observations/0	haracteristics	
	Celsius	Std Units	u/S	NTU	m∀	mg/L			\neg
	3.3	7.91	468	2.7	118		Clear		
	<u>Parameters</u>	Sampled	For:		Baseline VOC				
Comment	i:								
				ENVIROTE	NIX SITE/PRO	DJECT MAN	AGER SIGNAT	TURE	
			1	7	ageth	ul cu	n		



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Facility:	Farwe	ell Landf		•		Sample	Point ID:	MW-15	5
Field Pers	onnel:	cs/cs		_		Sample M	latrix:	Groundwat	er
<u>Monitori</u>	Condition (of Casing/ ed (X) Goo of Seal:			5/22/202 ged () Flush (Time:		16:05
<u>Purge infe</u>	ormation: Purse Met	hod:	Date/Time	Ended:	16:05 16:20			ctor = 0.163)	
	Surface Meas. Pt.: Initial H2O Level: Tot. Purged Gals: Observations:		(X) Casing () Riser 19.2 Tot. Well Depth, ft: 16 Purged to Dryness: () Y (X) N			50.4 (X):N Clear			
	g Well San Sampling M		Bailer	Date: Dedicated	5/23/2022 (X)Y ()N		Time: Weather/Te	mp: Sun 60F	13:00
	Field Data Temp	рН	Conductivity	Depth to V	Vater: 19.5	D.O.	Observations/C		_
	Ceisius 3.9	Std Units 8.05	u/s 533	NTU 9.6	mV 116	mg/L	Clear	ilet erretikrick	
	Parameters	Sampled	For:		Baseline VOC	's			
Comments:			Plezometer	#15 depth	to water was	18.7 at 15:0	5.		
-			-		NIX SITE/PRO		AGER SIGNAT	URE	_

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7 10-000-0032

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Dunkirk, New York USA 14048

Facility:	Farwe	ll Landfi	lf .			Sample	Point ID:	MW-16	
ield Perso	onnel:	CS/CS	4 1	-		Sample Ma	atrix: Groundwate		er
<u>Monitorir</u>	Condition (() Unlocke Condition ((X) Good (of Casing/I ed (X) Goo of Seal:	d () Loose		5/22/2022 ed () Flush I		Time:		13:00
Purge Info	Purge Meti Surface Me Initial H2O Tot. Purged Observatio	as. Pt.: Level: Gals:	16.8	Ended: <u>Dedicated</u> (') Riser <u>Tot. Well (</u>	13:00 13:55 Tubing: (X)Y Depth. ft: Dryness: () Y Start:	(_ <u>)N</u> 93.5		ctor = 0.163) ctor = 0.653)	
	g Well Sam Sampling M		Baller	Date: Dedicated: Depth to V			Time: Weather/Te	mp: Sun 57F	12:45
	Temp	рH	Conductivity	Turbidity	ORP TOTAL	D.Q.	Observations/0	haracteristics	
	Celsius 2.2	Std Units 7.85	u/s 501	5.8	mV 118	mg/L 6.2	Clear		
	<u>Parameters</u>	Sampled	For:		Baseline VOC	ès .			_
Comments									_
				ENVIROTE	NIX SITE/PRO	DJECT MAN	AGER SIGNAT	TURE	$\overline{}$

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<u>Facility:</u> F	arwe	ll Landfi	II			Sample	Point ID:	MW-16:	5
Field Personnel:	ł	CS/CS		4 1		Sample M	Sample Matrix:		er
Conc () U Conc	ionitoring Well Inspection: Condition of Casing/Riser: () Unlocked (X) Good () Loose Condition of Seal: (X) Good () Cracked () None (5/22/2022 ed () Flush !		_Time:		12:45	
(X) G	iood () Cracked	() None () Buried					
<u>Surfa</u> Initia	e Meti	as. Pt.: Level:	15.9	Ended: Dedicated () Riser Tot. Well [12:45 12:52 : (X)Y ()N Depth, ft: Dryness; () Y	30.1		ctor = 0.163) ctor = 0.653) is: 2.3	
Obse Comments:	<u>rvatio</u>	ns:	Overall:	Clear	Start:	Clear/Cldy	Finish:	Clear/Cldy	
Monitoring We Same	iing M	npling: lethod:	Baller	Date: Dedicated: Depth to V	5/23/2022 (X)Y ()N Vater: 16.4		Time: Weather/Te	emp: Sun 57F	12:35
Temp	- 1	pH		Turbidity	ORP	D.O.	Observations/0	Characteristics	
Cersiu	3.9	Std Units 7.69	u/s 698	NTU 4.9	mV 117	mg/L 4.9	Clear		
	neters	Sampled I	For:		Baseline VOC Dup Y taken i				
Comments:									_
-					CNIX SITE/PRO		AGER SIGNA	FURE	

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LANDFILL MONITORING FIELD LOG SHEET

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Facility:	Farwe	ll Landfi	II	5		Sample	Point ID:	MW-17	
Field Perso	mnel:	cs/cs		=3		Sample M	atrix:	Groundwat	er
<u>Monitorii</u>	Condition () unlocke	of Casing/I		Date:	5/22/2022 ged () Flush f		_Time;	·	12:10
		-	() None () Buried					
Purge Info	ormation:		Date/Time		12:10		Riser Diame	rter: <u>2"</u> ctor = 0.163)	
	Purge Meti Surface Me Initial H2O Tot. Purged	as. Pt.: Level:	18.1	() Riser Tot. Well	Tubing: (X)Y	<u>()N</u> 99.8	•	ctor = 0.653)	
Comments	Observatio	ns:	Overali:	Clear	Start:	Clear	Finish:	Clear	
-	g Well Sam Sampling M Field Data		Baller		5/23/2022 : (X)Y ()N Vater: 18,1		Time: Weather/Te	mp: Sun 56F	12:25
	-	pH Std Units	Conductivity u/S	Turbidity NTU	ORP	D.O.	Observations/0	Characteristics	
	4.4	7.45	314		mV 113	mg/L 5.1	Clear		
	Parameters	Sampled	For:		Baseline VOC	ùs .			
omments:									
				ENVIROTE	KNIX SITE/PR	DJECT MAN	AGER SIGNA	TURE	



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Facility:			•		Sample	Point ID:	MW-17s		
Field Perso	onnel:	CS/CS				Sample M	atrix:	Groundwater	
Monitori	Condition (() Unlocker Condition ((X) Good (of Casing/i ed (X) Goo of Seal:	d () Loose		5/22/2022 red () Flush !		Time:		11:50
Purge Information: Purge Method: Surface Meas. Pt.: Initial H2O Level: Tot. Purged Gals: Observations: Comments:		Pump (X) Casing 16.8	Dedicated Tubing: (X)Y ()Ng () Riser 8 Tot. Well Depth, ft: 3 Purged to Dryness: (X) Y ()		()N 43.1				
Monitorin	g Well San Sampling IV Field Data		Bailer	Date: Dedicated: Depth to V	5/23/2022 :(X)Y ()N Vater: 16.6		Time: Weather/Te	mp: Sun 56F	12:15
	Temp Celsius	pH Std Units	Conductivity u/S	Turbidity NTU	ORP mV	D.O. mg/L	Observations/C	haracteristics	
	3.3	7.35	433	3.9	122		Clear		
8	<u>Parameters</u>	Sampled	For:		Baseline VOC	Ès .		· · · · · · · · · · · · · · · · · · ·	
Comments	3			ENVIROTEI	(NIX SITE/PRO		AGER SIGNAT	TURE	=
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LANDFILL MONITORING FIELD LOG SHEET

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	Farwe	II Landfi	!!!			Samp	le Point ID:	MW-21
ield Pers	onnel:	CS/CS		-		Sample	Matrix:	Groundwater
<u>flonitori</u>	ng Well Ins		Riser:	Date:	5/22/2022	2	Time:	17:20
	() Unlocke	ed (X) Goo of Seal:	od () Loose		ged () Flush I	Mount		
	(X) Good () Cracked	() None () Burled				
urge I nf	ormation:		Date/Time		17:20		Riser Diame	
	Purze Meti		2	<u>Dedicated</u>	17:45 Tubing: (X)Y			ctor = 0.163) ctor = 0.653)
	Surface Me Initial H2O			() Riser Tot. Well I			23 One Vol. Ga	ls: 12.3
	Tot. Purged Observatio				Dryness: () Y Start:	(X)N Clear	(3x) Vol. Ga	
	Da.							
mment				<u> </u>				
	ng Well San	pling:		Date:	5/23/2022		Time:	14:05
	3		Bailer	Dedicated	: (X)Y ()N			14:05 mp: Sun 55F
	Ng Well Sam Sampling M Field Data Temp	lethod: pH	Conductivity	Dedicated Depth to V Turbidity	(X)Y ()N Vater: 47.7	D.O.		mp: Sun 55F
	Ng Well Sam Sampling M Field Data Temp	lethod: pH	Conductivity	Dedicated Depth to V Turbidity NTU	(X)Y ()N Vater: <u>47.7</u> ORP	D.O. mg/L	Weather/Te	mp: Sun 55F
	Sampling N Field Data Temp Celsius 3.9	ethod: pH Std Units 7,77	Conductivity u/S 998	Dedicated Depth to V Turbidity NTU	: (X)Y ()N Vater: <u>47.7</u> ORP	D.O. mg/L	Observations/0	mp: Sun 55F
	Sampling M Field Data Temp Celsius	ethod: pH Std Units 7,77	Conductivity u/S 998	Dedicated Depth to V Turbidity NTU	: (X)Y ()N Vater: <u>47.7</u> ORP	D.O. mg/L	Observations/0	mp: Sun 55F
onitori	Sampling M Field Data Temp Celsius 3.9	ethod: pH Std Units 7,77	Conductivity u/S 998	Dedicated Depth to V Turbidity NTU	(X)Y ()N Vater: <u>47.7</u> ORP mV	D.O. mg/L	Observations/0	mp: Sun 55F
	Sampling M Field Data Temp Celsius 3.9	ethod: pH Std Units 7,77	Conductivity u/S 998	Dedicated Depth to V Turbidity NTU	(X)Y ()N Vater: <u>47.7</u> ORP mV	D.O. mg/L	Observations/0	mp: Sun 55F

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LANDFILL MONITORING FIELD LOG SHEET

Facility:	Farwe	li Landfil	I	17		Sample	Point ID:	MW-22	
Field Perso	onnel:	<u>cs/cs</u>		<u>(</u>)		Sample Matrix:		Groundwater	
<u>Monitorir</u>	Condition of the Condit	of Casing/F d (X) Goo of Seal:	d () Loose		5/22/2022 ed () Flush N		Time:		17:20
Purge Info	ormation:) Cracked	Date/Time	•	17:20		Riser Diame	ter: 2"	
	-		Date/Time		17:35		(2" Conv. Fa	ctor = 0.163)	
			(X) Casing	() Riser	Tubing: (X)Y		(4" Conv. Fa		
	Initial H2O Tot. Purged			Tot. Well D	<u>Depth, ft:</u> Dryness: () Y		One Vol. Gal (3x) Vol. Gal		
Comments	Observation	<u>ns:</u>	Overall:	Clear	Start:	Clear	Finish:	Clear	=
<u>Monitorin</u>	g Well Sam			Date:	5/23/2022		Time:	1115	14:15
8	Sampling M Field Data	lethod:	Bailer	<u>Dedicated:</u> Depth to V			Weather/Te	mp: Sun 55F	
	Temp Celsius	pH Std Units	Conductivity u/S	Turbidity NTU	ORP	D,O. mg/l.	Observations/0	haracteristics	
	2.2		248	5.5	85		Clear		
,	Parameters	Sampled	For:		Baseline VOC	is .			
Comments	:								
8				FNVIPATE	(NIX SITE/PRO	NIECT MAN	AGED EIGNA	MIDE	
			Ī	LITTINOTE	The state of the s	JY S	AGER SIGNA	UKE	

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Facility:	ty: Farweli Landfili					Sample	Point ID:	MW-23	
Fleid Perso	onnel:	CS/CS		-		Sample M	atrix:	Groundwate	er
Monitorin	Meli ins Condition () Unlocke Condition ((X) Good (of Casing/F ed (X) Goo of Seal:	d () Loose		5/22/2022 ged () Flush I		_Time:	Pouring Rain	14:35
Purge info	Purge Met Surface Me Initial H2O Tot. Purge Observatio	eas. Pt.; Level: i Gais:		Ended: Dedicated () Riser Tot. Well		(_)N 54.1	*	ector = 0.163) ector = 0.653)	
	g Well San Sampling N		Baller		5/23/2022 : (X)Y ()N Water: 9.8		Time: Weather/Te	emp: Sun 55F	12:00
	Temp Celsius	pH Std Units	Conductivity u/S	Turbidity NTU	ORP mV	D.O. mg/L	Observations/0	Characteristics	
	1.1	6.85	160	1	79	6.1	Clear		
	<u>Parameters</u>	Sampled	For:		Baseline VOC	Ìs			
Comments:	Ā								
3			1	ENVIROTE	KNIX SITE/PRO	DJECT MAN	AGER SIGNA	TURE	\equiv

Login Sample Receipt Checklist

Client: Cattaraugus County

Job Number: 480-198235-1

SDG Number:

Login Number: 198235 List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

oroatori rougor, priurizi		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ETEX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-198237-1

Client Project/Site: Farwell Landfill - Leachate Expanded Sampling Event: Farwell Leachate Expanded Monitoring

For:

Cattaraugus County 8810 Route 242 Little Valley, New York 14755

Attn: Austin Kimes

Authorized for release by: 6/10/2022 4:00:58 PM

Ryan VanDette, Project Manager II (716)504-9830

Ryan.VanDette@et.eurofinsus.com

..... Links

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Qualifiers

	IS		

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
-----------	-----------------------

В Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier **Qualifier Description**

Compound was found in the blank and sample.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier **Qualifier Description**

В Compound was found in the blank and sample.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
b	Result Detected in the Unseeded Control blank (USB).
В	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present **PQL** Practical Quantitation Limit

Eurofins Buffalo

Page 3 of 51 6/10/2022

Definitions/Glossary

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Job ID: 480-198237-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-198237-1

Comments

No additional comments.

Receipt

The samples were received on 5/23/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-628019 recovered above the upper control limit for Acrolein, Vinyl acetate and Ethyl methacrylate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: L-1 (480-198237-1) and Trip Blank (480-198237-2).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-628019 recovered outside control limits for the following analytes: Acrolein and Ethyl methacrylate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: L-1 (480-198237-1) and Trip Blank (480-198237-2).

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: L-1 (480-198237-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8151A: Surrogate recovery for the following sample was outside the upper control limit due to matrix interference: L-1 (480-198237-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): L-1 (480-198237-1). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 1/2 dilution, which maintained the purple color during digestion.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method SM 2120B: The following samples were filtered prior to analysis, therefore the analytical results are being report as "True Color": L-1 (480-198237-1) and (480-198237-Q-1 DU)

Method SM 4500 S2 F: The following sample had insufficient amount of the matrix spike added to allow for recovery to be calculated: L-1 (MS)(480-198237-N-1 MS). The LCS was compliant.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

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Job ID: 480-198237-1

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Case Narrative

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Job ID: 480-198237-1

Job ID: 480-198237-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

Method 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-627564.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1 Lab Sample ID: 480-198237-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
1,1-Dichloroethane	2.9	J	4.0	1.5	ug/L	4	8260C	Total/NA
Benzene	1.9	J	4.0	1.6	ug/L	4	8260C	Total/NA
Chloroethane	3.4	J	4.0	1.3	ug/L	4	8260C	Total/NA
Ethylbenzene	5.5		4.0	3.0	ug/L	4	8260C	Total/NA
m-Xylene & p-Xylene	9.3		8.0	2.6	ug/L	4	8260C	Total/NA
Xylenes, Total	9.3		8.0	2.6	ug/L	4	8260C	Total/NA
1,4-Dichlorobenzene	1.6	J	10	0.46	ug/L	1	8270D	Total/NA
2,4-Dimethylphenol	0.75	J	5.0	0.50	ug/L	1	8270D	Total/NA
Diethyl phthalate	0.37	J	5.0	0.22	ug/L	1	8270D	Total/NA
Di-n-butyl phthalate	13	В	5.0	0.31	ug/L	1	8270D	Total/NA
Naphthalene	1.9	J	5.0	0.76	ug/L	1	8270D	Total/NA
N-Nitrosodi-n-butylamine	4.2	J	10	0.60	ug/L	1	8270D	Total/NA
4,4'-DDT	0.025	J	0.050	0.011	ug/L	1	8081B	Total/NA
Endosulfan I	0.11		0.050	0.011	ug/L	1	8081B	Total/NA
Endrin aldehyde	0.027	JB	0.050	0.016	ug/L	1	8081B	Total/NA
Methoxychlor	0.021	J	0.050	0.014	ug/L	1	8081B	Total/NA
Arsenic	0.010		0.010	0.0056	mg/L	1	6010C	Total/NA
Barium	0.41		0.0020	0.00070	mg/L	1	6010C	Total/NA
Boron	1.6		0.020	0.0040	mg/L	1	6010C	Total/NA
Cadmium	0.00055	J	0.0010	0.00050	mg/L	1	6010C	Total/NA
Calcium	125		0.50	0.10	mg/L	1	6010C	Total/NA
Chromium	0.0017	J	0.0040	0.0010	mg/L	1	6010C	Total/NA
Cobalt	0.0025	J	0.0040	0.00063	mg/L	1	6010C	Total/NA
Iron	10.5		0.050	0.019	mg/L	1	6010C	Total/NA
Magnesium	52.7		0.20	0.043	mg/L	1	6010C	Total/NA
Manganese	0.96		0.0030	0.00040	mg/L	1	6010C	Total/NA
Nickel	0.012		0.010	0.0013	mg/L	1	6010C	Total/NA
Potassium	79.4		0.50	0.10	mg/L	1	6010C	Total/NA
Sodium	305		1.0	0.32	mg/L	1	6010C	Total/NA
Zinc	0.0026	JB	0.010	0.0015	mg/L	1	6010C	Total/NA
Lead	0.00028	J	0.0010	0.00017	mg/L	1	6020A	Total/NA
Calcium and Magnesium Hardness	529		0.50	0.10	mg/L	1	SM 2340B	Total/NA
Bromide	4.9		2.0	0.73	mg/L	10	300.0	Total/NA
Chloride	324		5.0	2.8	mg/L	10	300.0	Total/NA
Sulfate	13.2	J	20.0	3.5	mg/L	10	300.0	Total/NA
Alkalinity, Total	1150	В	200	80.0	mg/L	20	310.2	Total/NA
Ammonia as N	89.5		1.0		mg/L as N	50	350.1	Total/NA
Total Kjeldahl Nitrogen	102		10.0		mg/L as N	50	351.2	Total/NA
Nitrate	0.021	J	0.050	0.020	mg/L as N	1	353.2	Total/NA
Chemical Oxygen Demand	226		20.0		mg/L	2	410.4	Total/NA
Total Organic Carbon	58.9	В	1.0		mg/L	1	9060A	Total/NA
Color	25.0		5.00	5.00	_	1	SM 2120B	Total/NA
Filterable Residue (180 C)	1350		20.0	8.0	mg/L		SM 2540C	Total/NA
Biochemical Oxygen Demand	23.0	b	12.0	12.0	mg/L	1	SM 5210B	Total/NA
Field EH/ORP	127			0	millivolts	1	Field Sampling	Total/NA
pH, Field	7.67				SU		Field Sampling	Total/NA
Temperature, Field (C)	9.5				Degrees C	1	Field Sampling	Total/NA
Turbidity, Field	119				NTU	1	Field Sampling	Total/NA
Specific Conductance, Field	3160				umhos/cm		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Job ID: 480-198237-1

Detection Summary

Client: Cattaraugus County

Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: Trip Blank

Lab Sample ID: 480-198237-2

No Detections.

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Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1

Styrene

Tetrachloroethene

Lab Sample ID: 480-198237-1 Date Collected: 05/23/22 14:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.4	ug/L			05/28/22 04:42	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			05/28/22 04:42	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			05/28/22 04:42	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			05/28/22 04:42	4
1,1-Dichloroethane	2.9	J	4.0	1.5	ug/L			05/28/22 04:42	4
1,1-Dichloroethene	ND		4.0		ug/L			05/28/22 04:42	4
1,2,3-Trichloropropane	ND		4.0		ug/L			05/28/22 04:42	4
1,1-Dichloropropene	ND		4.0		ug/L			05/28/22 04:42	4
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			05/28/22 04:42	4
1,2-Dibromoethane (EDB)	ND		4.0		ug/L			05/28/22 04:42	4
1,2-Dichloroethane	ND		4.0		ug/L			05/28/22 04:42	4
1,2-Dichloropropane	ND		4.0		ug/L			05/28/22 04:42	4
2-Hexanone	ND		20		ug/L			05/28/22 04:42	4
2-Butanone (MEK)	ND		40		ug/L			05/28/22 04:42	4
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			05/28/22 04:42	4
Acetone (WIBIT)	ND		40		ug/L			05/28/22 04:42	4
Acetonitrile	ND		160		_			05/28/22 04:42	4
1,2-Dichloroethene, Total	ND ND		8.0		ug/L			05/28/22 04:42	4
		*.			ug/L				
Acrolein	ND	~ +	80		ug/L			05/28/22 04:42	4
Acrylonitrile	ND		20		ug/L			05/28/22 04:42	4
Allyl chloride	ND		4.0		ug/L			05/28/22 04:42	4
Benzene	1.9	J	4.0		ug/L			05/28/22 04:42	4
Bromodichloromethane	ND		4.0		ug/L			05/28/22 04:42	4
1,3-Dichloropropane	ND		4.0		ug/L			05/28/22 04:42	4
Bromoform	ND		4.0		ug/L			05/28/22 04:42	4
Bromomethane	ND		4.0	2.8	ug/L			05/28/22 04:42	4
Carbon disulfide	ND		4.0	0.76	ug/L			05/28/22 04:42	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			05/28/22 04:42	4
2,2-Dichloropropane	ND		4.0	1.6	ug/L			05/28/22 04:42	4
Chlorobenzene	ND		4.0	3.0	ug/L			05/28/22 04:42	4
Chlorodibromomethane	ND		4.0	1.3	ug/L			05/28/22 04:42	4
Chloroethane	3.4	J	4.0	1.3	ug/L			05/28/22 04:42	4
Chloroform	ND		4.0	1.4	ug/L			05/28/22 04:42	4
Chloromethane	ND		4.0	1.4	ug/L			05/28/22 04:42	4
Chloroprene	ND		4.0	2.0	ug/L			05/28/22 04:42	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			05/28/22 04:42	4
Dibromomethane	ND		4.0	1.6	ug/L			05/28/22 04:42	4
Dichlorodifluoromethane	ND		4.0		ug/L			05/28/22 04:42	4
Ethyl methacrylate	ND	*+	4.0		ug/L			05/28/22 04:42	4
Ethylbenzene	5.5		4.0	3.0	ug/L			05/28/22 04:42	4
lodomethane	ND		4.0		ug/L			05/28/22 04:42	4
Methacrylonitrile	ND		20		ug/L			05/28/22 04:42	4
Methyl methacrylate	ND		4.0		ug/L			05/28/22 04:42	4
Methylene Chloride	ND		4.0		ug/L			05/28/22 04:42	4
m-Xylene & p-Xylene	9.3		8.0		ug/L			05/28/22 04:42	4
o-Xylene	ND		4.0		ug/L			05/28/22 04:42	4
Propionitrile	ND		4.0		ug/L			05/28/22 04:42	4
- Topioriiuiie	IND		40	23	ug/L			00/20/22 04.42	4

Eurofins Buffalo

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4.0

4.0

2.9 ug/L

1.4 ug/L

ND

ND

05/28/22 04:42

05/28/22 04:42

Client: Cattaraugus County

Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1

Date Collected: 05/23/22 14:30 Date Received: 05/23/22 17:00 Lab Sample ID: 480-198237-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	MD		4.0	2.0	ug/L			05/28/22 04:42	4
Bromochloromethane	ND		4.0	3.5	ug/L			05/28/22 04:42	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			05/28/22 04:42	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			05/28/22 04:42	4
trans-1,4-Dichloro-2-butene	ND		20	0.88	ug/L			05/28/22 04:42	4
Trichloroethene	ND		4.0	1.8	ug/L			05/28/22 04:42	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			05/28/22 04:42	4
Vinyl acetate	ND		20	3.4	ug/L			05/28/22 04:42	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			05/28/22 04:42	4
Vinyl chloride	ND		4.0	3.6	ug/L			05/28/22 04:42	4
Isobutanol	ND		160	19	ug/L			05/28/22 04:42	4
Xylenes, Total	9.3		8.0	2.6	ug/L			05/28/22 04:42	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120			-		05/28/22 04:42	4
Toluene-d8 (Surr)	95		80 - 120					05/28/22 04:42	4
4-Bromofluorobenzene (Surr)	93		73 - 120					05/28/22 04:42	4

Analyte	Result Qua	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND ND	5.0	0.58	ug/L		05/24/22 15:35	05/25/22 16:58	1
1,2,4-Trichlorobenzene	ND	10	0.44	ug/L		05/24/22 15:35	05/25/22 16:58	1
1,2-Dichlorobenzene	ND	10	0.40	ug/L		05/24/22 15:35	05/25/22 16:58	1
1,3-Dichlorobenzene	ND	10	0.48	ug/L		05/24/22 15:35	05/25/22 16:58	1
1,3-Dinitrobenzene	ND	20	0.82	ug/L		05/24/22 15:35	05/25/22 16:58	1
1,4-Dichlorobenzene	1.6 J	10	0.46	ug/L		05/24/22 15:35	05/25/22 16:58	1
1,4-Naphthoquinone	ND	10	0.24	ug/L		05/24/22 15:35	05/25/22 16:58	1
1-Naphthylamine	ND	10	1.3	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,3,4,6-Tetrachlorophenol	ND	5.0	0.32	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,4,5-Trichlorophenol	ND	5.0	0.48	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,4,6-Trichlorophenol	ND	5.0	0.61	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,4-Dichlorophenol	ND	5.0	0.51	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,4-Dimethylphenol	0.75 J	5.0	0.50	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,4-Dinitrophenol	ND	10	2.2	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,4-Dinitrotoluene	ND	5.0	0.45	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,6-Dichlorophenol	ND	10	0.46	ug/L		05/24/22 15:35	05/25/22 16:58	1
2,6-Dinitrotoluene	ND	5.0	0.40	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Acetylaminofluorene	ND	10	2.3	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Chloronaphthalene	ND	5.0	0.46	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Chlorophenol	ND	5.0	0.53	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Methylnaphthalene	ND	5.0	0.60	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Methylphenol	ND	5.0	0.40	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Naphthylamine	ND	10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Nitroaniline	ND	10	0.42	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Nitrophenol	ND	5.0	0.48	ug/L		05/24/22 15:35	05/25/22 16:58	1
2-Toluidine	ND	10	1.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
3,3'-Dichlorobenzidine	ND	5.0	0.40	ug/L		05/24/22 15:35	05/25/22 16:58	1
3,3'-Dimethylbenzidine	ND	40	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
3-Methylcholanthrene	ND	10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
3-Methylphenol	ND	10	0.40	ug/L		05/24/22 15:35	05/25/22 16:58	1

Eurofins Buffalo

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Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1

Isophorone

Date Received: 05/23/22 17:00

Lab Sample ID: 480-198237-1 Date Collected: 05/23/22 14:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		10	0.48	ug/L		05/24/22 15:35	05/25/22 16:58	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/24/22 15:35	05/25/22 16:58	1
4-Aminobiphenyl	ND		10	0.81	ug/L		05/24/22 15:35	05/25/22 16:58	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/24/22 15:35	05/25/22 16:58	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/24/22 15:35	05/25/22 16:58	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/24/22 15:35	05/25/22 16:58	1
4-Methylphenol	ND		10		ug/L		05/24/22 15:35	05/25/22 16:58	
4-Nitroaniline	ND		10	0.25	ug/L		05/24/22 15:35	05/25/22 16:58	1
4-Nitrophenol	ND		10	1.5	ug/L		05/24/22 15:35	05/25/22 16:58	
7,12-Dimethylbenz[a]anthracene	ND		10		ug/L		05/24/22 15:35	05/25/22 16:58	
Acenaphthene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Acenaphthylene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	,
Acetophenone	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Anthracene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Benzo[a]anthracene	ND		5.0	0.26			05/24/22 15:35	05/25/22 16:58	1
Benzo[a]pyrene	ND		5.0	0.47			05/24/22 15:35	05/25/22 16:58	
Benzo[b]fluoranthene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Benzo[g,h,i]perylene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	
Benzo[k]fluoranthene	ND ND		20		ug/L ug/L		05/24/22 15:35	05/25/22 16:58	
Benzyl alcohol									1
bis (2-chloroisopropyl) ether	ND		5.0	0.52			05/24/22 15:35	05/25/22 16:58	
Bis(2-chloroethoxy)methane	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Bis(2-chloroethyl)ether	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Bis(2-ethylhexyl) phthalate	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Butyl benzyl phthalate	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Chlorobenzilate	ND		20		ug/L		05/24/22 15:35	05/25/22 16:58	,
Chrysene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	
Diallate	ND		10		ug/L		05/24/22 15:35	05/25/22 16:58	•
Dibenz[a,h]anthracene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Dibenzofuran	ND		5.0	0.51	ug/L		05/24/22 15:35	05/25/22 16:58	1
Diethyl phthalate	0.37	J	5.0	0.22	ug/L		05/24/22 15:35	05/25/22 16:58	1
Dimethoate	ND		10	0.54	ug/L		05/24/22 15:35	05/25/22 16:58	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/24/22 15:35	05/25/22 16:58	1
Di-n-butyl phthalate	13	В	5.0	0.31	ug/L		05/24/22 15:35	05/25/22 16:58	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/24/22 15:35	05/25/22 16:58	1
Diphenylamine	ND		10	0.82	ug/L		05/24/22 15:35	05/25/22 16:58	1
Disulfoton	ND		10	0.42	ug/L		05/24/22 15:35	05/25/22 16:58	1
Ethyl methanesulfonate	ND		10	0.39	ug/L		05/24/22 15:35	05/25/22 16:58	1
Famphur	ND		40	1.9	ug/L		05/24/22 15:35	05/25/22 16:58	1
Fluoranthene	ND		5.0	0.40	ug/L		05/24/22 15:35	05/25/22 16:58	1
Fluorene	ND		5.0	0.36	ug/L		05/24/22 15:35	05/25/22 16:58	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/24/22 15:35	05/25/22 16:58	•
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/24/22 15:35	05/25/22 16:58	
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/24/22 15:35	05/25/22 16:58	
Hexachloroethane	ND		5.0	0.59	ug/L		05/24/22 15:35	05/25/22 16:58	
Hexachloropropene	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 16:58	1
Isodrin	ND		10		ug/L		05/24/22 15:35	05/25/22 16:58	1
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6/10/2022

05/25/22 16:58

05/24/22 15:35

5.0

0.43 ug/L

ND

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1

Lab Sample ID: 480-198237-1 Date Collected: 05/23/22 14:30

Matrix: Water

Date Received: 05/23/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	ND		10	0.58	ug/L		05/24/22 15:35	05/25/22 16:58	1
Kepone	ND		50	1.8	ug/L		05/24/22 15:35	05/25/22 16:58	1
Methapyrilene	ND		50	1.8	ug/L		05/24/22 15:35	05/25/22 16:58	1
Methyl methanesulfonate	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
Naphthalene	1.9	J	5.0	0.76	ug/L		05/24/22 15:35	05/25/22 16:58	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitro-o-toluidine	ND		10	0.66	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosodiethylamine	ND		10	0.36	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosodi-n-butylamine	4.2	J	10	0.60	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosomethylethylamine	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosopiperidine	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
N-Nitrosopyrrolidine	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
O,O,O-Triethyl phosphorothioate	ND		10	0.43	ug/L		05/24/22 15:35	05/25/22 16:58	1
Parathion ethyl	ND		10	0.64	ug/L		05/24/22 15:35	05/25/22 16:58	1
Parathion-methyl	ND		10	0.37	ug/L		05/24/22 15:35	05/25/22 16:58	1
p-Chloroaniline	ND		5.0	0.59	ug/L		05/24/22 15:35	05/25/22 16:58	1
p-Dimethylamino azobenzene	ND		10	0.75	ug/L		05/24/22 15:35	05/25/22 16:58	1
Pentachlorobenzene	ND		10	0.53	ug/L		05/24/22 15:35	05/25/22 16:58	1
Pentachloronitrobenzene	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
Pentachlorophenol	ND		10	2.2	ug/L		05/24/22 15:35	05/25/22 16:58	1
Phenacetin	ND		10	0.61	ug/L		05/24/22 15:35	05/25/22 16:58	1
Phenanthrene	ND		5.0	0.44	ug/L		05/24/22 15:35	05/25/22 16:58	1
Phenol	ND		5.0	0.39	ug/L		05/24/22 15:35	05/25/22 16:58	1
Phorate	ND		10	0.50	ug/L		05/24/22 15:35	05/25/22 16:58	1
p-Phenylene diamine	ND		800	200	ug/L		05/24/22 15:35	05/25/22 16:58	1
Pronamide	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
Pyrene	ND		5.0	0.34	ug/L		05/24/22 15:35	05/25/22 16:58	1
Safrole	ND		10	0.46	ug/L		05/24/22 15:35	05/25/22 16:58	1
sym-Trinitrobenzene	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 16:58	1
Thionazin	ND		10	0.38	ug/L		05/24/22 15:35	05/25/22 16:58	1

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	Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
	2,4,6-Tribromophenol	101		41 - 120	05/24	/22 15:35	05/25/22 16:58	1
	2-Fluorobiphenyl	85		48 - 120	05/24	/22 15:35	05/25/22 16:58	1
	2-Fluorophenol	66		35 - 120	05/24	/22 15:35	05/25/22 16:58	1
	Nitrobenzene-d5	77		46 - 120	05/24	/22 15:35	05/25/22 16:58	1
	Phenol-d5	50		22 - 120	05/24	/22 15:35	05/25/22 16:58	1
	p-Terphenyl-d14	68		60 - 148	05/24.	/22 15:35	05/25/22 16:58	1

Method: 8081B - Organochlorine Pesticides (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		05/25/22 09:02	05/26/22 11:33	1
4,4'-DDE	ND		0.050	0.012	ug/L		05/25/22 09:02	05/26/22 11:33	1
4,4'-DDT	0.025	J	0.050	0.011	ug/L		05/25/22 09:02	05/26/22 11:33	1
Aldrin	ND		0.050	0.0081	ug/L		05/25/22 09:02	05/26/22 11:33	1
alpha-BHC	ND		0.050	0.0077	ug/L		05/25/22 09:02	05/26/22 11:33	1
beta-BHC	ND		0.050	0.025	ug/L		05/25/22 09:02	05/26/22 11:33	1

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Client: Cattaraugus County

Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1

2,4-Dichlorophenylacetic acid

Date Collected: 05/23/22 14:30 Date Received: 05/23/22 17:00 Lab Sample ID: 480-198237-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane	ND		0.50	0.29	ug/L		05/25/22 09:02	05/26/22 11:33	1
delta-BHC	ND		0.050	0.010	ug/L		05/25/22 09:02	05/26/22 11:33	1
Dieldrin	ND		0.050	0.0098	ug/L		05/25/22 09:02	05/26/22 11:33	1
Endosulfan I	0.11		0.050	0.011	ug/L		05/25/22 09:02	05/26/22 11:33	1
Endosulfan II	ND		0.050	0.012	ug/L		05/25/22 09:02	05/26/22 11:33	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		05/25/22 09:02	05/26/22 11:33	1
Endrin	ND		0.050	0.014	ug/L		05/25/22 09:02	05/26/22 11:33	1
Endrin aldehyde	0.027	J B	0.050	0.016	ug/L		05/25/22 09:02	05/26/22 11:33	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		05/25/22 09:02	05/26/22 11:33	1
Heptachlor	ND		0.050	0.0085	ug/L		05/25/22 09:02	05/26/22 11:33	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		05/25/22 09:02	05/26/22 11:33	1
Methoxychlor	0.021	J	0.050	0.014	ug/L		05/25/22 09:02	05/26/22 11:33	1
Toxaphene	ND		0.50	0.12	ug/L		05/25/22 09:02	05/26/22 11:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		20 - 120				05/25/22 09:02	05/26/22 11:33	1
DCB Decachlorobiphenyl	35		20 - 120				05/25/22 09:02	05/26/22 11:33	1
Tetrachloro-m-xylene	101		44 - 120				05/25/22 09:02	05/26/22 11:33	1
Tetrachloro-m-xylene	50		44 - 120				05/25/22 09:02	05/26/22 11:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.57	0.20	ug/L		05/25/22 08:46	05/26/22 00:13	1
Aroclor 1221	ND		0.57	0.20	ug/L		05/25/22 08:46	05/26/22 00:13	1
Aroclor 1232	ND		0.57	0.20	ug/L		05/25/22 08:46	05/26/22 00:13	1
Aroclor 1242	ND		0.57	0.20	ug/L		05/25/22 08:46	05/26/22 00:13	1
Aroclor 1248	ND		0.57	0.20	ug/L		05/25/22 08:46	05/26/22 00:13	1
Aroclor 1254	ND		0.57	0.28	ug/L		05/25/22 08:46	05/26/22 00:13	1
Aroclor 1260	ND		0.57	0.28	ug/L		05/25/22 08:46	05/26/22 00:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	32	19 - 120	05/25/22 08:46	05/26/22 00:13	1
DCB Decachlorobiphenyl	35	19 - 120	05/25/22 08:46	05/26/22 00:13	1
Tetrachloro-m-xylene	57	39 - 121	05/25/22 08:46	05/26/22 00:13	1
Tetrachloro-m-xylene	56	39 - 121	05/25/22 08:46	05/26/22 00:13	1

Method: 8151A - Herbicide	es (GC)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND ND	0.49	0.067	ug/L		05/25/22 10:55	05/27/22 20:13	1
2,4-D	ND	0.49	0.17	ug/L		05/25/22 10:55	05/27/22 20:13	1
Dinoseb	ND	0.49	0.13	ug/L		05/25/22 10:55	05/27/22 20:13	1
Silvex (2,4,5-TP)	ND	0.49	0.049	ug/L		05/25/22 10:55	05/27/22 20:13	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac

2,4-Dichlorophenylacetic acid	98		48 - 132				05/25/22 10:55	05/27/22 20:13	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/26/22 09:50	05/27/22 17:47	1
Antimony	ND		0.020	0.0068	mg/L		05/26/22 09:50	05/27/22 17:47	1

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Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: L-1

Lab Sample ID: 480-198237-1 **Matrix: Water**

Date Collected: 05/23/22 14:30 Date Received: 05/23/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fac
Arsenic	0.010		0.010	0.0056	mg/L		05/26/22 09:50	05/27/22 17:47	1
Barium	0.41		0.0020	0.00070	mg/L		05/26/22 09:50	05/27/22 17:47	1
Beryllium	ND		0.0020	0.00030	mg/L		05/26/22 09:50	05/27/22 17:47	1
Boron	1.6		0.020	0.0040	mg/L		05/26/22 09:50	05/27/22 17:47	1
Cadmium	0.00055	J	0.0010	0.00050	mg/L		05/26/22 09:50	05/27/22 17:47	1
Calcium	125		0.50	0.10	mg/L		05/26/22 09:50	05/27/22 17:47	1
Chromium	0.0017	J	0.0040	0.0010	mg/L		05/26/22 09:50	05/27/22 17:47	1
Cobalt	0.0025	J	0.0040	0.00063	mg/L		05/26/22 09:50	05/27/22 17:47	1
Copper	ND		0.010	0.0016	mg/L		05/26/22 09:50	05/27/22 17:47	1
Iron	10.5		0.050	0.019	mg/L		05/26/22 09:50	05/27/22 17:47	1
Magnesium	52.7		0.20	0.043	mg/L		05/26/22 09:50	05/27/22 17:47	1
Manganese	0.96		0.0030	0.00040	mg/L		05/26/22 09:50	05/27/22 17:47	1
Nickel	0.012		0.010	0.0013	mg/L		05/26/22 09:50	05/27/22 17:47	1
Potassium	79.4		0.50	0.10	mg/L		05/26/22 09:50	05/27/22 17:47	1
Selenium	ND		0.015	0.0087	mg/L		05/26/22 09:50	05/27/22 17:47	1
Silver	ND		0.0030	0.0017			05/26/22 09:50	05/27/22 17:47	1
Sodium	305		1.0	0.32	mg/L		05/26/22 09:50	05/27/22 17:47	1
Tin	ND		0.010	0.0051	=		05/26/22 09:50	05/27/22 17:47	1
Vanadium	ND		0.0050	0.0015			05/26/22 09:50	05/27/22 17:47	1
Zinc	0.0026	JB	0.010	0.0015	mg/L		05/26/22 09:50	05/27/22 17:47	1
•					-				
Method: 6020A - Metals (ICP/M	IS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	0.00028	J	0.0010	0.00017	mg/L		05/26/22 09:34	05/26/22 16:41	1
Lead	0.00020	3	0.00.0	0.00011	•				
Lead Thallium	ND	•	0.20	0.019	ug/L		05/26/22 09:34	05/26/22 16:41	1
Thallium -	ND				ug/L		05/26/22 09:34	05/26/22 16:41	1
Thallium Method: 7470A - Mercury (CVA	ND		0.20	0.019					
Thallium Method: 7470A - Mercury (CVA Analyte	ND Result	Qualifier	0.20	0.019 MDL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Thallium -	ND		0.20	0.019	Unit	_ <u>D</u>			
Thallium Method: 7470A - Mercury (CVA Analyte Mercury	ND Result ND	Qualifier	0.20 RL 0.00040	0.019 MDL	Unit	_ <u>D</u>	Prepared	Analyzed	
Thallium : Method: 7470A - Mercury (CVA Analyte Mercury : Method: SM 2340B - Total Hard	ND Result ND Inches (as CaCO3	Qualifier	0.20 RL 0.00040	0.019 MDL 0.000086	Unit mg/L		Prepared 05/25/22 10:57	Analyzed 05/25/22 15:59	Dil Fac
Thallium Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte	ND Result ND diness (as CaCO3 Result	Qualifier	0.20 RL 0.00040	0.019 MDL 0.000086	Unit mg/L	_ <u>D</u>	Prepared	Analyzed 05/25/22 15:59 Analyzed	Dil Fac Dil Fac
Thallium Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium	ND Result ND Inches (as CaCO3	Qualifier	0.20 RL 0.00040	0.019 MDL 0.000086	Unit mg/L		Prepared 05/25/22 10:57	Analyzed 05/25/22 15:59	Dil Fac
Thallium Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium	ND Result ND diness (as CaCO3 Result	Qualifier	0.20 RL 0.00040	0.019 MDL 0.000086	Unit mg/L		Prepared 05/25/22 10:57	Analyzed 05/25/22 15:59 Analyzed	Dil Fac Dil Fac
Thallium Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness	ND Result ND diness (as CaCO3 Result	Qualifier	0.20 RL 0.00040	0.019 MDL 0.000086	Unit mg/L		Prepared 05/25/22 10:57	Analyzed 05/25/22 15:59 Analyzed	Dil Fac Dil Fac
Thallium Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness	ND Result ND dness (as CaCO3 Result 529	Qualifier	0.20 RL 0.00040	0.019 MDL 0.000086 MDL 0.10	Unit mg/L		Prepared 05/25/22 10:57	Analyzed 05/25/22 15:59 Analyzed	Dil Fac Dil Fac
Thallium Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry	ND Result ND dness (as CaCO3 Result 529	Qualifier b) by calcula Qualifier	0.20 RL 0.00040 ation RL 0.50	0.019 MDL 0.000086 MDL 0.10	Unit mg/L Unit mg/L	<u>D</u>	Prepared 05/25/22 10:57 Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54	Dil Fac Dil Fac
Thallium Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte	ND Result ND Result 529 Result	Qualifier b) by calcula Qualifier	0.20 RL 0.00040 RL 0.50	0.019 MDL 0.000086 MDL 0.10	Unit mg/L Unit mg/L Unit	<u>D</u>	Prepared 05/25/22 10:57 Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed	Dil Fac Dil Fac Dil Fac
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide	Result ND Result ND Result S29 Result 4.9	Qualifier by calcula Qualifier Qualifier	0.20 RL 0.00040	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8	Unit mg/L Unit mg/L Unit mg/L	<u>D</u>	Prepared 05/25/22 10:57 Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44	Dil Fac Dil Fac 1 Dil Fac 1
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride	Result ND Result ND Result S29 Result 4.9 324	Qualifier by calcula Qualifier Qualifier	0.20 RL 0.00040 O.50 RL O.50 RL 2.0 5.0	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5	Unit mg/L Unit mg/L Unit mg/L mg/L	<u>D</u>	Prepared 05/25/22 10:57 Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44	Dil Fac 1 Dil Fac 1 Dil Fac 10 10
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate	Result ND Result ND Result 1529 Result 4.9 324 13.2	Qualifier by calcula Qualifier Qualifier	0.20 RL 0.00040 RL 0.50 RL 2.0 5.0 20.0	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0	Unit mg/L Unit mg/L Unit mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 05/25/22 10:57 Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44	Dil Fac 1 Dil Fac 10 10 10
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total	Result 529 Result 4.9 324 13.2 1150	Qualifier by calcula Qualifier Qualifier	0.20 RL 0.00040 RL 0.50 RL 2.0 5.0 20.0	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45	Unit mg/L Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 05/25/22 10:57 Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48	Dil Fac 1 Dil Fac 10 10 10 20
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total Ammonia as N	Result 529 Result 4.9 324 13.2 1150 89.5	Qualifier b) by calcular Qualifier Qualifier J B	0.20 RL 0.00040 RL 0.50 RL 2.0 5.0 20.0 200 1.0	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45 9.4	Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 05/25/22 10:57 Prepared Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48 05/25/22 09:39	Dil Fac 1 Dil Fac 10 10 20 50
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total Ammonia as N Total Kjeldahl Nitrogen	Result 529 Result 4.9 324 1150 89.5 102	Qualifier b) by calcular Qualifier Qualifier J B	RL 0.00040 RL 0.50 RL 2.0 5.0 20.0 200 1.0 10.0	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45 9.4 0.020	Unit mg/L Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L s N mg/L as N	<u>D</u>	Prepared 05/25/22 10:57 Prepared Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48 05/25/22 09:39 06/06/22 09:40	Dil Fac 1 Dil Fac 10 10 10 20 50 50
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total Ammonia as N Total Kjeldahl Nitrogen Nitrate	Result 529 Result 4.9 324 13.2 1150 89.5 102 0.021	Qualifier b) by calcular Qualifier Qualifier J B	RL 0.00040 RL 0.50 RL 2.0 5.0 20.0 200 1.0 10.0 0.050	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45 9.4 0.020	Unit mg/L Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L mg/L as N mg/L as N mg/L as N mg/L as N	<u>D</u>	Prepared 05/25/22 10:57 Prepared Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48 05/25/22 09:39 06/06/22 09:40 05/24/22 19:41	Dil Fac 1 Dil Fac 10 10 10 20 50 50 1
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total Ammonia as N Total Kjeldahl Nitrogen Nitrate Chemical Oxygen Demand	Result 529 Result 4.9 324 13.2 1150 89.5 102 0.021 226	Qualifier b) by calcular Qualifier Qualifier J B	RL 0.00040 RL 0.50 RL 2.0 5.0 20.0 200 1.0 10.0 0.050 20.0	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45 9.4 0.020 10.0	Unit mg/L Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L as N mg/L as N mg/L as N mg/L as N	<u>D</u>	Prepared 05/25/22 10:57 Prepared Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48 05/25/22 09:39 06/06/22 09:40 05/24/22 19:41 05/26/22 19:00	Dil Fac 1 Dil Fac 10 10 10 20 50 1 2
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total Ammonia as N Total Kjeldahl Nitrogen Nitrate Chemical Oxygen Demand Total Recoverable Phenolics	Result ND Ciness (as CaCO3 Result 529 Result 4.9 324 13.2 1150 89.5 102 0.021 226 ND	Qualifier b) by calcular Qualifier Qualifier J B	RL 0.00040 RL 0.50 RL 2.0 5.0 20.0 200 1.0 10.0 0.050 20.0 0.0050	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45 9.4 0.020 10.0 0.0035	Unit mg/L Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L as N <u>D</u>	Prepared 05/25/22 10:57 Prepared Prepared	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48 05/25/22 09:39 06/06/22 09:40 05/24/22 19:41 05/26/22 19:00 05/27/22 11:05	Dil Fac 1 Dil Fac 10 10 10 20 50 50 1 2 1	
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total Ammonia as N Total Kjeldahl Nitrogen Nitrate Chemical Oxygen Demand Total Recoverable Phenolics Chromium, hexavalent Cyanide, Total	Result ND Cliness (as CaCO3 Result 529 Result 13.2 1150 89.5 102 0.021 226 ND ND ND ND	Qualifier by calcular Qualifier Qualifier J B	RL 0.00040 RL 0.50 RL 2.0 5.0 20.0 200 1.0 10.0 0.050 20.0 0.0050 0.010	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45 9.4 0.020 10.0 0.0035 0.0050 0.0050	Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L mg/L as N	<u>D</u>	Prepared 05/25/22 10:57 Prepared Prepared 06/04/22 09:00	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 12:54 06/02/22 07:44 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48 05/25/22 09:39 06/06/22 09:40 05/24/22 19:41 05/26/22 19:00 05/27/22 11:05 05/24/22 11:15 06/01/22 08:47	Dil Fac 1 Dil Fac 10 10 10 20 50 1 2 1 1
Method: 7470A - Mercury (CVA Analyte Mercury Method: SM 2340B - Total Hard Analyte Calcium and Magnesium Hardness General Chemistry Analyte Bromide Chloride Sulfate Alkalinity, Total Ammonia as N Total Kjeldahl Nitrogen Nitrate Chemical Oxygen Demand Total Recoverable Phenolics Chromium, hexavalent	Result ND Cliness (as CaCO3 Result 529 Result 13.2 1150 89.5 102 0.021 226 ND ND ND	Qualifier by calcular Qualifier Qualifier J B	RL 0.00040 RL 0.50 RL 2.0 5.0 20.0 200 1.0 10.0 0.050 20.0 0.0050 0.010 0.010	0.019 MDL 0.000086 MDL 0.10 MDL 0.73 2.8 3.5 80.0 0.45 9.4 0.020 10.0 0.0035 0.0050 0.0050 0.43	Unit mg/L Unit mg/L Unit mg/L mg/L mg/L mg/L mg/L as N <u>D</u>	Prepared 05/25/22 10:57 Prepared Prepared 06/04/22 09:00	Analyzed 05/25/22 15:59 Analyzed 06/02/22 12:54 Analyzed 06/02/22 12:54 06/02/22 07:44 06/02/22 07:44 05/31/22 12:48 05/25/22 09:39 06/06/22 09:40 05/24/22 19:41 05/26/22 19:00 05/27/22 11:05 05/24/22 11:15	Dil Fac 1 Dil Fac 10 10 20 50 1 2 1 1 1	

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Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1 Lab Sample ID: 480-198237-1

Matrix: Water

Date Collected: 05/23/22 14:30 Date Received: 05/23/22 17:00

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
23.0	b	12.0	12.0	mg/L			05/24/22 18:03	1
Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
25.0		5.00	5.00	Color Units			05/25/22 08:00	1
Result	Qualifier	NONE	NONE	Unit	_ D	Prepared	Analyzed	Dil Fac
	Ovelifier	NONE	NONE	11-14	_	Duamanad	Amalumad	Dil Faa
127				millivolts			05/23/22 14:30	1
7.67				SU			05/23/22 14:30	1
9.5				Degrees C			05/23/22 14:30	1
119				NTU			05/23/22 14:30	1
3160				umhos/cm			05/23/22 14:30	1
	23.0 Result 25.0 apling Result 127 7.67 9.5	Result Qualifier 127 7.67 9.5 119	23.0 b 12.0 Result Qualifier RL 25.0 5.00 ppling Result Qualifier NONE 127 7.67 9.5 119	23.0 b 12.0 12.0 Result Qualifier RL RL 25.0 5.00 5.00 Ipling Result Qualifier NONE NONE 127 7.67 9.5 119	23.0 b 12.0 12.0 mg/L Result Qualifier RL RL Unit 25.0 5.00 5.00 Color Units Ipling Result Qualifier NONE NONE Unit 127 millivolts 7.67 SU 9.5 Degrees C 119 NTU	23.0 b 12.0 mg/L mg/L	23.0 b 12.0 12.0 mg/L	23.0 b 12.0 12.0 mg/L 05/24/22 18:03 Result Qualifier RL RL Unit D Prepared Analyzed 25.0 5.00 5.00 Color Units D Prepared Analyzed O5/25/22 08:00 Ipling Result Qualifier NONE NONE Unit D Prepared Analyzed

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: Trip Blank

Lab Sample ID: 480-198237-2

Date Collected: 05/23/22 00:00 **Matrix: Water** Date Received: 05/23/22 17:00

nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			05/28/22 05:05	
,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/28/22 05:05	
,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/28/22 05:05	
,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/28/22 05:05	
,1-Dichloroethane	ND		1.0	0.38	ug/L			05/28/22 05:05	
,1-Dichloroethene	ND		1.0	0.29	ug/L			05/28/22 05:05	
,2,3-Trichloropropane	ND		1.0	0.89	ug/L			05/28/22 05:05	
,1-Dichloropropene	ND		1.0	0.72	ug/L			05/28/22 05:05	
,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/28/22 05:05	
,2-Dibromoethane (EDB)	ND		1.0	0.73	ug/L			05/28/22 05:05	
,2-Dichloroethane	ND		1.0	0.21	ug/L			05/28/22 05:05	
,2-Dichloropropane	ND		1.0	0.72	ug/L			05/28/22 05:05	
-Hexanone	ND		5.0	1.2	ug/L			05/28/22 05:05	
-Butanone (MEK)	ND		10		ug/L			05/28/22 05:05	
-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/28/22 05:05	
acetone	ND		10		ug/L			05/28/22 05:05	
cetonitrile	ND		40		ug/L			05/28/22 05:05	
,2-Dichloroethene, Total	ND		2.0		ug/L			05/28/22 05:05	
Acrolein	ND	*+	20	0.91				05/28/22 05:05	
crylonitrile	ND		5.0	0.83				05/28/22 05:05	
Allyl chloride	ND		1.0	0.44				05/28/22 05:05	
Benzene	ND		1.0		ug/L			05/28/22 05:05	
Bromodichloromethane	ND		1.0	0.39	_			05/28/22 05:05	
,3-Dichloropropane	ND		1.0		ug/L ug/L			05/28/22 05:05	
Bromoform	ND		1.0		ug/L ug/L			05/28/22 05:05	
Bromomethane	ND		1.0		ug/L ug/L			05/28/22 05:05	
Carbon disulfide	ND ND		1.0		_			05/28/22 05:05	
					ug/L				
Carbon tetrachloride	ND		1.0	0.27				05/28/22 05:05	
,2-Dichloropropane	ND		1.0	0.40	_			05/28/22 05:05	
Chlorobenzene	ND		1.0		ug/L			05/28/22 05:05	
Chlorodibromomethane	ND		1.0		ug/L			05/28/22 05:05	
Chloroethane	ND		1.0		ug/L			05/28/22 05:05	
Chloroform	ND		1.0		ug/L			05/28/22 05:05	
Chloromethane	ND		1.0		ug/L			05/28/22 05:05	
Chloroprene	ND		1.0		ug/L			05/28/22 05:05	
is-1,3-Dichloropropene	ND		1.0	0.36				05/28/22 05:05	
Dibromomethane	ND		1.0	0.41				05/28/22 05:05	
Dichlorodifluoromethane	ND		1.0	0.68	_			05/28/22 05:05	
thyl methacrylate	ND	*+	1.0	0.59				05/28/22 05:05	
thylbenzene	ND		1.0	0.74				05/28/22 05:05	
odomethane	ND		1.0	0.30				05/28/22 05:05	
Methacrylonitrile	ND		5.0	0.69				05/28/22 05:05	
lethyl methacrylate	ND		1.0	0.61				05/28/22 05:05	
lethylene Chloride	ND		1.0	0.44	ug/L			05/28/22 05:05	
n-Xylene & p-Xylene	ND		2.0	0.66				05/28/22 05:05	
-Xylene	ND		1.0	0.76	ug/L			05/28/22 05:05	
Propionitrile	ND		10	5.8	ug/L			05/28/22 05:05	
Styrene	ND		1.0	0.73	ug/L			05/28/22 05:05	

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6/10/2022

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: Trip Blank

Date Received: 05/23/22 17:00

4-Bromofluorobenzene (Surr)

Lab Sample ID: 480-198237-2 Date Collected: 05/23/22 00:00

Matrix: Water

05/28/22 05:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.51	ug/L			05/28/22 05:05	1
Bromochloromethane	ND		1.0	0.87	ug/L			05/28/22 05:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/28/22 05:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/28/22 05:05	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			05/28/22 05:05	1
Trichloroethene	ND		1.0	0.46	ug/L			05/28/22 05:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/28/22 05:05	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/28/22 05:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/28/22 05:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/28/22 05:05	1
Isobutanol	ND		40	4.8	ug/L			05/28/22 05:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/28/22 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					05/28/22 05:05	1
Toluene-d8 (Surr)	96		80 - 120					05/28/22 05:05	1

73 - 120

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sui
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-198237-1	L-1	104	95	93
480-198237-2	Trip Blank	105	96	93
LCS 480-628019/6	Lab Control Sample	101	101	99
MB 480-628019/8	Method Blank	107	99	93
Surrogate Legend				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco	very (Accept	ance Limits)
		ТВР	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-198237-1	L-1	101	85	66	77	50	68
LCS 480-627445/2-A	Lab Control Sample	92	81	63	77	51	104
MB 480-627445/1-A	Method Blank	67	94	67	84	51	107
Surrogate Legend							

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHd14 = p-Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water Prep Type: Total/NA

				Percent Su	rogate Rec
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-198237-1	L-1	59	35	101	50
LCS 480-627511/2-A	Lab Control Sample	39	50	74	60
LCSD 480-627511/3-A	Lab Control Sample Dup	30	35	58	75
MB 480-627511/1-A	Method Blank	50	54	91	73

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water Prep Type: Total/NA

=				Percent Sui	rrogate Reco
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(19-120)	(19-120)	(39-121)	(39-121)
480-198237-1	L-1	32	35	57	56
LCS 480-627510/2-A	Lab Control Sample	33	37	53	56
MB 480-627510/1-A	Method Blank	35	40	54	62

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6/10/2022

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Surrogate Summary

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Accep
		DCPAA1	DCPAA2	
Lab Sample ID	Client Sample ID	(48-132)	(48-132)	
480-198237-1	L-1	802 S1+	98	
LCS 480-627564/2-A	Lab Control Sample	106	82	
LCSD 480-627564/3-A	Lab Control Sample Dup	101	74	
MB 480-627564/1-A	Method Blank	91	84	
Surrogate Legend				
DCPAA = 2,4-Dichloroph	nenylacetic acid			

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Job ID: 480-198237-1

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Client: Cattaraugus County

Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-628019/8

Matrix: Water

Client Sample ID: Method Blank
Prep Type: Total/NA

Matrix: Water								Prep Type: To		
Analysis Batch: 628019	•••	•••								
Analyte		MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/28/22 02:00	1	
1,1,1-Trichloroethane	ND		1.0		ug/L			05/28/22 02:00		
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/28/22 02:00	1	
1,1,2-Trichloroethane	ND		1.0		ug/L			05/28/22 02:00	1	
1,1-Dichloroethane	ND		1.0	0.38				05/28/22 02:00		
1,1-Dichloroethene	ND		1.0		_			05/28/22 02:00	,	
1,2,3-Trichloropropane	ND		1.0		ug/L			05/28/22 02:00	,	
1,1-Dichloropropene	ND		1.0		ug/L			05/28/22 02:00		
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/28/22 02:00		
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			05/28/22 02:00	,	
1,2-Dichloroethane	ND		1.0		ug/L			05/28/22 02:00	,	
1,2-Dichloropropane	ND		1.0		ug/L			05/28/22 02:00	,	
2-Hexanone	ND		5.0		ug/L			05/28/22 02:00	1	
2-Butanone (MEK)	ND		10		ug/L			05/28/22 02:00	,	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/28/22 02:00	,	
Acetone	ND		10		ug/L			05/28/22 02:00	,	
Acetonie	ND ND		40		ug/L			05/28/22 02:00	,	
1,2-Dichloroethene, Total	ND ND		2.0					05/28/22 02:00	,	
					ug/L ug/L					
Acrolein	ND		20		•			05/28/22 02:00		
Acrylonitrile	ND		5.0	0.83	-			05/28/22 02:00		
Allyl chloride	ND		1.0		ug/L			05/28/22 02:00		
Benzene	ND		1.0		ug/L			05/28/22 02:00		
Bromodichloromethane	ND		1.0		ug/L			05/28/22 02:00	•	
1,3-Dichloropropane	ND		1.0	0.75				05/28/22 02:00		
Bromoform	ND		1.0		ug/L			05/28/22 02:00	,	
Bromomethane	ND		1.0		ug/L			05/28/22 02:00	,	
Carbon disulfide	ND		1.0		ug/L			05/28/22 02:00		
Carbon tetrachloride	ND		1.0		ug/L			05/28/22 02:00	,	
2,2-Dichloropropane	ND		1.0		ug/L			05/28/22 02:00	,	
Chlorobenzene	ND		1.0		ug/L			05/28/22 02:00		
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/28/22 02:00	•	
Chloroethane	ND		1.0	0.32	ug/L			05/28/22 02:00	•	
Chloroform	ND		1.0	0.34	ug/L			05/28/22 02:00		
Chloromethane	ND		1.0		ug/L			05/28/22 02:00	,	
Chloroprene	ND		1.0	0.49	ug/L			05/28/22 02:00	,	
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/28/22 02:00		
Dibromomethane	ND		1.0	0.41	ug/L			05/28/22 02:00	•	
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/28/22 02:00	,	
Ethyl methacrylate	ND		1.0	0.59	ug/L			05/28/22 02:00	1	
Ethylbenzene	ND		1.0	0.74	ug/L			05/28/22 02:00	•	
lodomethane	ND		1.0	0.30	ug/L			05/28/22 02:00	•	
Methacrylonitrile	ND		5.0	0.69	ug/L			05/28/22 02:00		
Methyl methacrylate	ND		1.0	0.61	ug/L			05/28/22 02:00		
Methylene Chloride	ND		1.0	0.44	ug/L			05/28/22 02:00		
m-Xylene & p-Xylene	ND		2.0		ug/L			05/28/22 02:00		
o-Xylene	ND		1.0		ug/L			05/28/22 02:00		
Propionitrile	ND		10		ug/L			05/28/22 02:00	,	
Styrene	ND		1.0		ug/L			05/28/22 02:00	1	

Eurofins Buffalo

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-628019/8

Matrix: Water

Analysis Batch: 628019

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 480-198237-1

MB MB Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed ND 1.0 05/28/22 02:00 Tetrachloroethene 0.36 ug/L Toluene ND 1.0 0.51 ug/L 05/28/22 02:00 ND Bromochloromethane 1.0 0.87 ug/L 05/28/22 02:00 trans-1,2-Dichloroethene ND 1.0 0.90 ug/L 05/28/22 02:00 ND 1.0 0.37 ug/L 05/28/22 02:00 trans-1,3-Dichloropropene trans-1,4-Dichloro-2-butene ND 5.0 0.22 ug/L 05/28/22 02:00 Trichloroethene ND 0.46 ug/L 05/28/22 02:00 1.0 Trichlorofluoromethane ND 1.0 0.88 ug/L 05/28/22 02:00 Vinyl acetate ND 5.0 0.85 ug/L 05/28/22 02:00 cis-1,2-Dichloroethene ND 1.0 0.81 ug/L 05/28/22 02:00 ND Vinyl chloride 1.0 0.90 ug/L 05/28/22 02:00 Isobutanol ND 40 05/28/22 02:00 4.8 ug/L Xylenes, Total ND 2.0 05/28/22 02:00 0.66 ug/L

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		05/28/22 02:00	1
Toluene-d8 (Surr)	99		80 - 120		05/28/22 02:00	1
4-Bromofluorobenzene (Surr)	93		73 - 120		05/28/22 02:00	1

Lab Sample ID: LCS 480-628019/6

Matrix: Water

Analysis Batch: 628019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	80 - 120
1,1,1-Trichloroethane	25.0	23.2		ug/L		93	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	76 - 120
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	24.2		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	21.3		ug/L		85	66 - 127
1,2,3-Trichloropropane	25.0	24.4		ug/L		97	68 - 122
1,1-Dichloropropene	25.0	24.9		ug/L		100	72 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	56 - 134
1,2-Dibromoethane (EDB)	25.0	25.2		ug/L		101	77 - 120
1,2-Dichloroethane	25.0	24.4		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
2-Hexanone	125	145		ug/L		116	65 - 127
2-Butanone (MEK)	125	145		ug/L		116	57 - 140
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		110	71 - 125
Acetone	125	127		ug/L		102	56 - 142
Acrolein	125	256	*+	ug/L		205	52 - 143
Acrylonitrile	250	266		ug/L		106	63 - 125
Allyl chloride	25.0	22.6		ug/L		90	60 - 140
Benzene	25.0	24.0		ug/L		96	71 - 124
Bromodichloromethane	25.0	23.9		ug/L		96	80 - 122
1,3-Dichloropropane	25.0	26.1		ug/L		104	75 - 120
Bromoform	25.0	25.8		ug/L		103	61 - 132
Bromomethane	25.0	20.1		ug/L		81	55 - 144

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Job ID: 480-198237-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-628019/6

Matrix: Water

Analysis Batch: 628019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch. 020010	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Carbon disulfide	25.0	21.5		ug/L		86	59 - 134
Carbon tetrachloride	25.0	23.5		ug/L		94	72 - 134
2,2-Dichloropropane	25.0	24.1		ug/L		97	63 - 136
Chlorobenzene	25.0	23.8		ug/L		95	80 - 120
Chlorodibromomethane	25.0	25.7		ug/L		103	75 - 125
Chloroethane	25.0	22.2		ug/L		89	69 _ 136
Chloroform	25.0	22.8		ug/L		91	73 - 127
Chloromethane	25.0	22.7		ug/L		91	68 - 124
cis-1,3-Dichloropropene	25.0	26.4		ug/L		105	74 - 124
Dibromomethane	25.0	24.5		ug/L		98	76 - 127
Dichlorodifluoromethane	25.0	20.6		ug/L		82	59 - 135
Ethyl methacrylate	25.0	31.5	*+	ug/L		126	74 - 120
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
lodomethane	25.0	21.0		ug/L		84	78 - 123
Methylene Chloride	25.0	22.9		ug/L		92	75 - 124
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	76 - 122
o-Xylene	25.0	24.1		ug/L		96	76 - 122
Styrene	25.0	24.9		ug/L		100	80 - 120
Tetrachloroethene	25.0	22.9		ug/L		91	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
Bromochloromethane	25.0	23.6		ug/L		94	72 _ 130
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	80 - 120
trans-1,4-Dichloro-2-butene	25.0	18.7		ug/L		75	41 _ 131
Trichloroethene	25.0	23.1		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	21.5		ug/L		86	62 _ 150
Vinyl acetate	50.0	67.5		ug/L		135	50 - 144
cis-1,2-Dichloroethene	25.0	23.1		ug/L		92	74 - 124
Vinyl chloride	25.0	20.7		ug/L		83	65 _ 133
Isobutanol	625	908		ug/L		145	51 - 150

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
1,2-Dichloroethane-d4 (Surr)	101	77 - 120
Toluene-d8 (Surr)	101	80 - 120
4-Bromofluorobenzene (Surr)	99	73 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-627445/1-A

Matrix: Water

Analysis Batch: 627554

Client Sample ID: Method Blank
Prep Type: Total/NA
Pren Batch: 627445

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.58	ug/L		05/24/22 15:35	05/25/22 13:17	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		05/24/22 15:35	05/25/22 13:17	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		05/24/22 15:35	05/25/22 13:17	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		05/24/22 15:35	05/25/22 13:17	1
1,3-Dinitrobenzene	ND		20	0.82	ug/L		05/24/22 15:35	05/25/22 13:17	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		05/24/22 15:35	05/25/22 13:17	1

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Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Job ID: 480-198237-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-627445/1-A

Matrix: Water

Analysis Batch: 627554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627445

Result Qualifier ND	RL		Unit	D	Prepared	Analyzed	Dil Fac
ND					05/04/00 45 05	05/05/00 40 47	
	10		ug/L		05/24/22 15:35	05/25/22 13:17	
ND	10		ug/L		05/24/22 15:35	05/25/22 13:17	
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			-				
			-				,
							,
							•
	5.0				05/24/22 15:35	05/25/22 13:17	•
ND	10				05/24/22 15:35	05/25/22 13:17	
ND	5.0	0.46	ug/L		05/24/22 15:35	05/25/22 13:17	1
ND	5.0	0.53	ug/L		05/24/22 15:35	05/25/22 13:17	1
ND	5.0	0.60	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	5.0	0.40	ug/L		05/24/22 15:35	05/25/22 13:17	•
ND	10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	10	0.42	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	5.0	0.48	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	10	1.5	ug/L		05/24/22 15:35	05/25/22 13:17	,
ND	5.0	0.40	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	40	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	10	0.40			05/24/22 15:35	05/25/22 13:17	
ND	10	0.48	ug/L		05/24/22 15:35	05/25/22 13:17	
ND	10		-		05/24/22 15:35	05/25/22 13:17	
ND	10		-		05/24/22 15:35	05/25/22 13:17	
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ND	5.0				05/24/22 15:35	05/25/22 13:17	
ND	5.0				05/24/22 15:35	05/25/22 13:17	•
ND	5.0	0.40	ug/L		05/24/22 15:35	05/25/22 13:17	,
ND	5.0	2.2	ug/L		05/24/22 15:35	05/25/22 13:17	•
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND 5.0 ND 5.0 ND 5.0 ND 10 ND 10 ND 10 ND 5.0 ND 5.0 ND 5.0 ND 5.0 ND 5.0 ND 5.0 ND 10 ND 5.0 ND	ND 5.0 0.48 ND 5.0 0.61 ND 5.0 0.51 ND 5.0 0.50 ND 10 2.2 ND 5.0 0.45 ND 10 0.46 ND 5.0 0.46 ND 5.0 0.40 ND 10 2.3 ND 5.0 0.46 ND 5.0 0.46 ND 5.0 0.46 ND 5.0 0.46 ND 5.0 0.40 ND 5.0 0.60 ND 5.0 0.40 ND 10 2.5 ND 10 10 2.5 ND 10 1.5 ND 5.0 0.40 ND 5.0 0.40 ND 5.0 0.40 ND 5.0 0.40 ND 10 0.42 ND 10 1.5 ND 10 0.42 ND 10 0.42 ND 5.0 0.40 ND 10 0.45 ND 10 0.50 ND 10 0.55 ND 10 0.40 ND 10 0.45 ND 10 0.40 ND 10 0.45 ND 10 0.45 ND 10 0.40 ND 10 0.48 ND 10 0.48 ND 10 0.48 ND 10 0.48 ND 10 0.48 ND 10 0.50 ND 10 0.81 ND 5.0 0.45 ND 5.0 0.45 ND 5.0 0.35 ND 10 0.36 ND 10 0.62 ND 5.0 0.35 ND 10 0.62 ND 5.0 0.38 ND 5.0 0.38 ND 5.0 0.38 ND 5.0 0.34 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35 ND 5.0 0.35	ND 5.0 0.48 ug/L ND 5.0 0.61 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05/25/22 13:17 ND 5.0 0.46 ug/L 05/24/22 15:35 05/25/22 13:17 ND 5.0 0.53 ug/L 05/24/22 15:35 05/25/22 13:17 ND 5.0 0.60 ug/L 05/24/22 15:35 05/25/22 13:17 ND 5.0 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.42 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.42 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.42 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.40 ug/L 05/24/22 15:35 05/25/22 13:17 ND 10 0.50 ug/L 05/24/22 15:35 05/25/22 13:17 ND

Eurofins Buffalo

6/10/2022

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Job ID: 480-198237-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-627445/1-A

Matrix: Water

Phenanthrene

Analysis Batch: 627554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627445

Analysis Batch: 627554	мр	мр						Prep Batch: 627445		
Analyte		MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chlorobenzilate	ND		20	0.67	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Chrysene	ND		5.0	0.33	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Diallate	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Dibenz[a,h]anthracene	ND		5.0	0.42	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Dibenzofuran	ND		5.0	0.51	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Diethyl phthalate	ND		5.0	0.22	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Dimethoate	ND		10	0.54	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Di-n-butyl phthalate	1.02		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Di-n-octyl phthalate	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Diphenylamine	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Disulfoton	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Ethyl methanesulfonate	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Famphur	ND		40		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Fluoranthene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Fluorene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Hexachlorobenzene	ND		5.0	0.51	_		05/24/22 15:35	05/25/22 13:17	1	
Hexachlorobutadiene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	· · · · · · · · 1	
Hexachlorocyclopentadiene	ND		5.0	0.59	_		05/24/22 15:35	05/25/22 13:17	1	
Hexachloroethane	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Hexachloropropene	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17		
			5.0		_					
Indeno[1,2,3-cd]pyrene	ND ND				ug/L		05/24/22 15:35	05/25/22 13:17	1	
Isodrin			10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Isophorone	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Isosafrole	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Kepone	ND		50		ug/L		05/24/22 15:35	05/25/22 13:17		
Methapyrilene	ND		50		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Methyl methanesulfonate	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
Naphthalene	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17		
Nitrobenzene	ND		5.0	0.29	•		05/24/22 15:35	05/25/22 13:17	1	
N-Nitro-o-toluidine	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosodiethylamine	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosodimethylamine	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosodi-n-butylamine	ND		10		ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosodi-n-propylamine	ND		5.0		ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosomethylethylamine	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosopiperidine	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	1	
N-Nitrosopyrrolidine	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	1	
O,O,O-Triethyl phosphorothioate	ND		10	0.43	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Parathion ethyl	ND		10	0.64	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Parathion-methyl	ND		10	0.37	ug/L		05/24/22 15:35	05/25/22 13:17	1	
p-Chloroaniline	ND		5.0	0.59	ug/L		05/24/22 15:35	05/25/22 13:17	1	
p-Dimethylamino azobenzene	ND		10	0.75	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Pentachlorobenzene	ND		10	0.53	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Pentachloronitrobenzene	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Pentachlorophenol	ND		10	2.2	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Phenacetin	ND		10	0.61	ug/L		05/24/22 15:35	05/25/22 13:17	1	
Dhananthrana	ND		F 0	0.44	/1		05/04/00 45:05	05/05/00 40:47	4	

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05/25/22 13:17

5.0

0.44 ug/L

05/24/22 15:35

ND

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Job ID: 480-198237-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-627445/1-A

Lab Sample ID: LCS 480-627445/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 627554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627445

ı		IND	1410							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Phenol	ND		5.0	0.39	ug/L		05/24/22 15:35	05/25/22 13:17	1
	Phorate	ND		10	0.50	ug/L		05/24/22 15:35	05/25/22 13:17	1
	p-Phenylene diamine	ND		800	200	ug/L		05/24/22 15:35	05/25/22 13:17	1
	Pronamide	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	1
	Pyrene	ND		5.0	0.34	ug/L		05/24/22 15:35	05/25/22 13:17	1
	Safrole	ND		10	0.46	ug/L		05/24/22 15:35	05/25/22 13:17	1
	sym-Trinitrobenzene	ND		10	2.5	ug/L		05/24/22 15:35	05/25/22 13:17	1
	Thionazin	ND		10	0.38	ug/L		05/24/22 15:35	05/25/22 13:17	1
ı										

мв мв

MB MB

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		41 - 120	05/24/22 15:35	05/25/22 13:17	1
2-Fluorobiphenyl	94		48 - 120	05/24/22 15:35	05/25/22 13:17	1
2-Fluorophenol	67		35 - 120	05/24/22 15:35	05/25/22 13:17	1
Nitrobenzene-d5	84		46 - 120	05/24/22 15:35	05/25/22 13:17	1
Phenol-d5	51		22 - 120	05/24/22 15:35	05/25/22 13:17	1
p-Terphenyl-d14	107		60 - 148	05/24/22 15:35	05/25/22 13:17	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627445

Analysis Batch: 627554 Spike LCS LCS %Rec

Analyte	Added	Result Qualif	ier Unit	D %Rec	Limits	
1,2,4,5-Tetrachlorobenzene	32.0	23.1	ug/L	72	53 - 120	
1,2,4-Trichlorobenzene	32.0	21.7	ug/L	68	40 - 120	
1,2-Dichlorobenzene	32.0	20.9	ug/L	65	49 - 120	
1,3-Dichlorobenzene	32.0	19.2	ug/L	60	50 - 120	
1,3-Dinitrobenzene	32.0	30.6	ug/L	96	68 - 131	
1,4-Dichlorobenzene	32.0	19.9	ug/L	62	51 - 120	
2,3,4,6-Tetrachlorophenol	32.0	31.6	ug/L	99	63 - 120	
2,4,5-Trichlorophenol	32.0	30.6	ug/L	96	65 - 126	
2,4,6-Trichlorophenol	32.0	28.8	ug/L	90	64 - 120	
2,4-Dichlorophenol	32.0	27.5	ug/L	86	63 _ 120	
2,4-Dimethylphenol	32.0	27.5	ug/L	86	47 - 120	
2,4-Dinitrophenol	64.0	62.5	ug/L	98	31 - 137	
2,4-Dinitrotoluene	32.0	32.4	ug/L	101	69 - 120	
2,6-Dichlorophenol	32.0	27.7	ug/L	86	62 - 120	
2,6-Dinitrotoluene	32.0	30.8	ug/L	96	68 - 120	
2-Chloronaphthalene	32.0	25.5	ug/L	80	58 - 120	
2-Chlorophenol	32.0	25.8	ug/L	81	48 - 120	
2-Methylnaphthalene	32.0	21.8	ug/L	68	59 - 120	
2-Methylphenol	32.0	26.0	ug/L	81	39 - 120	
2-Nitroaniline	32.0	29.6	ug/L	92	54 - 127	
2-Nitrophenol	32.0	26.7	ug/L	83	52 - 125	
3,3'-Dichlorobenzidine	64.0	54.1	ug/L	85	49 - 135	
3-Nitroaniline	32.0	27.6	ug/L	86	51 - 120	
4,6-Dinitro-2-methylphenol	64.0	67.4	ug/L	105	46 - 136	
4-Bromophenyl phenyl ether	32.0	30.0	ug/L	94	65 _ 120	
4-Chloro-3-methylphenol	32.0	28.9	ug/L	90	61 - 123	

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Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Job ID: 480-198237-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-627445/2-A

Matrix: Water

Surrogate

2,4,6-Tribromophenol

Analysis Batch: 627554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627445

Anaka	Spike		LCS	D 0/5	%Rec	
Analyte	Added		Qualifier Unit	D %Rec	Limits	
4-Chlorophenyl phenyl ether	32.0	29.5	ug/L	92	62 - 120	
4-Methylphenol	32.0	25.8	ug/L	81	29 - 131	
4-Nitroaniline	32.0	31.8	ug/L	99	65 - 120	
4-Nitrophenol	64.0	45.8	ug/L	72	45 _ 120	
Acenaphthene	32.0	28.5	ug/L	89	60 - 120	
Acenaphthylene	32.0	26.9	ug/L	84	63 - 120	
Acetophenone	32.0	26.6	ug/L	83	45 - 120	
Anthracene	32.0	30.8	ug/L	96	67 - 120	
Benzo[a]anthracene	32.0	32.1	ug/L	100	70 - 121	
Benzo[a]pyrene	32.0	28.9	ug/L	90	60 - 123	
Benzo[b]fluoranthene	32.0	32.7	ug/L	102	66 - 126	
Benzo[g,h,i]perylene	32.0	34.9	ug/L	109	66 - 150	
Benzo[k]fluoranthene	32.0	31.9	ug/L	100	65 - 124	
Benzyl alcohol	32.0	26.5	ug/L	83	41 - 126	
bis (2-chloroisopropyl) ether	32.0	24.7	ug/L	77	21 - 136	
Bis(2-chloroethoxy)methane	32.0	26.9	ug/L	84	50 - 128	
Bis(2-chloroethyl)ether	32.0	25.5	ug/L	80	44 - 120	
Bis(2-ethylhexyl) phthalate	32.0	32.6	ug/L	102	63 - 139	
Butyl benzyl phthalate	32.0	34.6	ug/L	108	70 - 129	
Chrysene	32.0	31.4	ug/L	98	69 - 120	
Dibenz[a,h]anthracene	32.0	32.7	ug/L	102	65 - 135	
Dibenzofuran	32.0	29.1	ug/L	91	66 - 120	
Diethyl phthalate	32.0	32.8	ug/L	103	59 - 127	
Dimethyl phthalate	32.0	32.2	ug/L	101	68 - 120	
Di-n-butyl phthalate	32.0	34.3	ug/L	107	69 - 131	
Di-n-octyl phthalate	32.0	32.8	ug/L	102	63 - 140	
Diphenylamine	27.4	26.6	ug/L	97	61 - 120	
Fluoranthene	32.0	33.0	ug/L	103	69 - 126	
Fluorene	32.0	30.6	ug/L	96	66 - 120	
Hexachlorobenzene	32.0	30.7	ug/L	96	61 - 120	
Hexachlorobutadiene	32.0	17.4	ug/L	54	35 - 120	
Hexachlorocyclopentadiene	32.0	16.4	ug/L	51	31 - 120	
Hexachloroethane	32.0	17.3	ug/L	54	43 - 120	
Indeno[1,2,3-cd]pyrene	32.0	32.9	ug/L	103	69 - 146	
Isophorone	32.0	28.4	ug/L	89	55 - 120	
Naphthalene	32.0	23.9	ug/L	75	57 - 120	
Nitrobenzene	32.0	25.6	ug/L	80	53 - 123	
N-Nitrosodimethylamine	32.0	19.1	ug/L	60	10 - 120	
N-Nitrosodi-n-propylamine	32.0	27.4	ug/L	86	32 - 140	
N-Nitrosodiphenylamine	32.0	31.1	ug/L	97	61 - 120	
p-Chloroaniline	32.0	25.4	ug/L	79	30 - 120	
Pentachlorophenol	64.0	62.4	ug/L	98	29 - 136	
Phenanthrene	32.0	31.0	ug/L	97	68 - 120	
Phenol	32.0	17.3	ug/L	54	17 - 120	
			•			

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Limits

41 - 120

%Recovery Qualifier

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-627445/2-A

Matrix: Water

Analysis Batch: 627554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 480-198237-1

Prep Batch: 627445

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	81		48 - 120
2-Fluorophenol	63		35 - 120
Nitrobenzene-d5	77		46 - 120
Phenol-d5	51		22 - 120
p-Terphenyl-d14	104		60 - 148

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-627511/1-A

Matrix: Water

Analysis Batch: 627706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627511

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		05/25/22 09:02	05/26/22 10:15	1
4,4'-DDE	ND		0.050	0.012	ug/L		05/25/22 09:02	05/26/22 10:15	1
4,4'-DDT	ND		0.050	0.011	ug/L		05/25/22 09:02	05/26/22 10:15	1
Aldrin	ND		0.050	0.0081	ug/L		05/25/22 09:02	05/26/22 10:15	1
alpha-BHC	ND		0.050	0.0077	ug/L		05/25/22 09:02	05/26/22 10:15	1
beta-BHC	ND		0.050	0.025	ug/L		05/25/22 09:02	05/26/22 10:15	1
Chlordane	ND		0.50	0.29	ug/L		05/25/22 09:02	05/26/22 10:15	1
delta-BHC	ND		0.050	0.010	ug/L		05/25/22 09:02	05/26/22 10:15	1
Dieldrin	ND		0.050	0.0098	ug/L		05/25/22 09:02	05/26/22 10:15	1
Endosulfan I	ND		0.050	0.011	ug/L		05/25/22 09:02	05/26/22 10:15	1
Endosulfan II	ND		0.050	0.012	ug/L		05/25/22 09:02	05/26/22 10:15	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		05/25/22 09:02	05/26/22 10:15	1
Endrin	ND		0.050	0.014	ug/L		05/25/22 09:02	05/26/22 10:15	1
Endrin aldehyde	0.0196	J	0.050	0.016	ug/L		05/25/22 09:02	05/26/22 10:15	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		05/25/22 09:02	05/26/22 10:15	1
Heptachlor	ND		0.050	0.0085	ug/L		05/25/22 09:02	05/26/22 10:15	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		05/25/22 09:02	05/26/22 10:15	1
Methoxychlor	ND		0.050	0.014	ug/L		05/25/22 09:02	05/26/22 10:15	1
Toxaphene	ND		0.50	0.12	ug/L		05/25/22 09:02	05/26/22 10:15	1

Surrogate	%Recovery C	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	50		20 - 120	05/25/22 09:02 05/	26/22 10:15	1
DCB Decachlorobiphenyl	54		20 - 120	05/25/22 09:02 05/	26/22 10:15	1
Tetrachloro-m-xylene	91		44 - 120	05/25/22 09:02 05/	26/22 10:15	1
Tetrachloro-m-xvlene	73		44 - 120	05/25/22 09:02 05/	26/22 10:15	1

Lab Sample ID: LCS 480-627511/2-A

Matrix: Water

Analysis Batch: 627706

Clions	Cample	ID: Lak	Control	Sample
Cileii	. Sallible	ID. Lau	, Cullinui	Sallible

Prep Type: Total/NA

Prep Batch: 627511

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
4,4'-DDD	0.400	0.440		ug/L		110	64 - 129	
4,4'-DDE	0.400	0.375		ug/L		94	50 - 120	
4,4'-DDT	0.400	0.448		ug/L		112	59 - 120	
Aldrin	0.400	0.245		ug/L		61	40 - 125	

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6/10/2022

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QC Sample Results

Client: Cattaraugus County

Job ID: 480-198237-1 Project/Site: Farwell Landfill - Leachate Expanded

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-627511/2-A

Matrix: Water

Analysis Batch: 627706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627511

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
alpha-BHC	0.400	0.308		ug/L		77	52 - 125	
beta-BHC	0.400	0.390		ug/L		98	51 - 120	
delta-BHC	0.400	0.353		ug/L		88	51 - 120	
Dieldrin	0.400	0.405		ug/L		101	66 - 128	
Endosulfan I	0.400	0.424		ug/L		106	57 - 120	
Endosulfan II	0.400	0.409		ug/L		102	66 - 131	
Endosulfan sulfate	0.400	0.457		ug/L		114	66 - 136	
Endrin	0.400	0.417		ug/L		104	65 _ 135	
Endrin aldehyde	0.400	0.372		ug/L		93	61 - 134	
gamma-BHC (Lindane)	0.400	0.353		ug/L		88	56 - 120	
Heptachlor	0.400	0.355		ug/L		89	58 - 120	
Heptachlor epoxide	0.400	0.379		ug/L		95	65 - 125	
Methoxychlor	0.400	0.506		ug/L		126	50 - 150	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	39		20 - 120
DCB Decachlorobiphenyl	50		20 - 120
Tetrachloro-m-xylene	74		44 - 120
Tetrachloro-m-xylene	60		44 - 120

Lab Sample ID: LCSD 480-627511/3-A

Matrix: Water

Analysis Batch: 627706

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 627511

Analysis Daton. 027700							i icp	Dateii. V	21011
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4,4'-DDD	0.400	0.469		ug/L		117	64 - 129	6	23
4,4'-DDE	0.400	0.381		ug/L		95	50 - 120	2	22
4,4'-DDT	0.400	0.445		ug/L		111	59 - 120	1	24
Aldrin	0.400	0.251		ug/L		63	40 - 125	3	25
alpha-BHC	0.400	0.331		ug/L		83	52 - 125	7	24
beta-BHC	0.400	0.397		ug/L		99	51 - 120	2	24
delta-BHC	0.400	0.376		ug/L		94	51 - 120	7	24
Dieldrin	0.400	0.411		ug/L		103	66 - 128	1	24
Endosulfan I	0.400	0.439		ug/L		110	57 - 120	4	30
Endosulfan II	0.400	0.417		ug/L		104	66 - 131	2	40
Endosulfan sulfate	0.400	0.466		ug/L		116	66 - 136	2	24
Endrin	0.400	0.426		ug/L		107	65 - 135	2	24
Endrin aldehyde	0.400	0.383		ug/L		96	61 - 134	3	28
gamma-BHC (Lindane)	0.400	0.362		ug/L		91	56 - 120	3	24
Heptachlor	0.400	0.368		ug/L		92	58 - 120	3	25
Heptachlor epoxide	0.400	0.399		ug/L		100	65 - 125	5	23
Methoxychlor	0.400	0.508		ug/L		127	50 - 150	0	26

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	30		20 - 120
DCB Decachlorobiphenyl	35		20 - 120
Tetrachloro-m-xylene	58		44 - 120
Tetrachloro-m-xylene	75		44 - 120

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Project/Site: Farwell Landfill - Leachate Expanded

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

MD MD

Lab Sample ID: MB 480-627510/1-A

Matrix: Water

Analysis Batch: 627607

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627510

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	0.18	ug/L		05/25/22 08:46	05/25/22 20:26	1
Aroclor 1221	ND		0.50	0.18	ug/L		05/25/22 08:46	05/25/22 20:26	1
Aroclor 1232	ND		0.50	0.18	ug/L		05/25/22 08:46	05/25/22 20:26	1
Aroclor 1242	ND		0.50	0.18	ug/L		05/25/22 08:46	05/25/22 20:26	1
Aroclor 1248	ND		0.50	0.18	ug/L		05/25/22 08:46	05/25/22 20:26	1
Aroclor 1254	ND		0.50	0.25	ug/L		05/25/22 08:46	05/25/22 20:26	1
Aroclor 1260	ND		0.50	0.25	ug/L		05/25/22 08:46	05/25/22 20:26	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	35	19 - 120	05/25/22 08:46	05/25/22 20:26	1
DCB Decachlorobiphenyl	40	19 - 120	05/25/22 08:46	05/25/22 20:26	1
Tetrachloro-m-xylene	54	39 - 121	05/25/22 08:46	05/25/22 20:26	1
Tetrachloro-m-xylene	62	39 - 121	05/25/22 08:46	05/25/22 20:26	1

Lab Sample ID: LCS 480-627510/2-A

Matrix: Water

Analysis Batch: 627607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627510

	эріке	LUS	LUS				70Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aroclor 1016	4.00	2.47		ug/L		62	62 - 130	
Aroclor 1260	4.00	2.75		ug/L		69	56 - 123	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	33		19 - 120
DCB Decachlorobiphenyl	37		19 - 120
Tetrachloro-m-xylene	53		39 - 121
Tetrachloro-m-xylene	56		39 - 121

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-627564/1-A

Matrix: Water

Analysis Batch: 627984

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627564

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.068	ug/L		05/25/22 10:55	05/27/22 18:44	1
2,4-D	ND		0.50	0.17	ug/L		05/25/22 10:55	05/27/22 18:44	1
Dinoseb	ND		0.50	0.14	ug/L		05/25/22 10:55	05/27/22 18:44	1
Silvex (2,4,5-TP)	ND		0.50	0.050	ug/L		05/25/22 10:55	05/27/22 18:44	1
	МВ	МВ							

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	2,4-Dichlorophenylacetic acid	91		48 - 132	05/25/22 10:55	05/27/22 18:44	1
l	2,4-Dichlorophenylacetic acid	84		48 - 132	05/25/22 10:55	05/27/22 18:44	1

QC Sample Results

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 480-627564/2-A

Matrix: Water

Analysis Batch: 627984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627564

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2,4,5-T	2.00	1.94		ug/L		97	41 - 150	
2,4-D	2.00	1.92		ug/L		96	36 - 150	
Dinoseb	2.00	0.463	J	ug/L		23	21 - 120	
Silvex (2,4,5-TP)	2.00	1.86		ug/L		93	49 - 150	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	106		48 - 132
2,4-Dichlorophenylacetic acid	82		48 - 132

Lab Sample ID: LCSD 480-627564/3-A

Matrix: Water

Analysis Batch: 627984

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 627564

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
2,4,5-T	2.00	1.99	ug/L		100	41 - 150	3	50
2,4-D	2.00	2.16	ug/L		108	36 - 150	12	50
Dinoseb	2.00	0.506	ug/L		25	21 - 120	9	50
Silvex (2,4,5-TP)	2.00	1.94	ug/L		97	49 - 150	4	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	101		48 - 132
2,4-Dichlorophenylacetic acid	74		48 - 132

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-627560/1-A

Matrix: Water

Analysis Batch: 628137

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 627560

Analysis Daton. 020101								i iep Dateii.	. 027 300
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/26/22 09:50	05/27/22 15:42	1
Antimony	ND		0.020	0.0068	mg/L		05/26/22 09:50	05/27/22 15:42	1
Arsenic	ND		0.010	0.0056	mg/L		05/26/22 09:50	05/27/22 15:42	1
Barium	ND		0.0020	0.00070	mg/L		05/26/22 09:50	05/27/22 15:42	1
Beryllium	ND		0.0020	0.00030	mg/L		05/26/22 09:50	05/27/22 15:42	1
Boron	ND		0.020	0.0040	mg/L		05/26/22 09:50	05/27/22 15:42	1
Cadmium	ND		0.0010	0.00050	mg/L		05/26/22 09:50	05/27/22 15:42	1
Calcium	ND		0.50	0.10	mg/L		05/26/22 09:50	05/27/22 15:42	1
Chromium	ND		0.0040	0.0010	mg/L		05/26/22 09:50	05/27/22 15:42	1
Cobalt	ND		0.0040	0.00063	mg/L		05/26/22 09:50	05/27/22 15:42	1
Copper	ND		0.010	0.0016	mg/L		05/26/22 09:50	05/27/22 15:42	1
Iron	ND		0.050	0.019	mg/L		05/26/22 09:50	05/27/22 15:42	1
Magnesium	ND		0.20	0.043	mg/L		05/26/22 09:50	05/27/22 15:42	1
Manganese	ND		0.0030	0.00040	mg/L		05/26/22 09:50	05/27/22 15:42	1
Nickel	ND		0.010	0.0013	mg/L		05/26/22 09:50	05/27/22 15:42	1
Potassium	ND		0.50	0.10	mg/L		05/26/22 09:50	05/27/22 15:42	1
Selenium	ND		0.015	0.0087	mg/L		05/26/22 09:50	05/27/22 15:42	1
Silver	ND		0.0030	0.0017	mg/L		05/26/22 09:50	05/27/22 15:42	1

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QC Sample Results

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-627560/1-A

Matrix: Water

Analysis Batch: 628137

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 480-198237-1

Prep Batch: 627560

	MB	МВ						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		05/26/22 09:50	05/27/22 15:42	1
Tin	ND		0.010	0.0051	mg/L		05/26/22 09:50	05/27/22 15:42	1
Vanadium	ND		0.0050	0.0015	mg/L		05/26/22 09:50	05/27/22 15:42	1
Zinc	0.00153	J	0.010	0.0015	mg/L		05/26/22 09:50	05/27/22 15:42	1

Lab Sample ID: LCS 480-627560/2-A

Matrix: Water

Analysis Batch: 628137

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627560

Analysis Batom 620101							. Top Buto	02, 000
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	10.0	10.26		mg/L		103	80 - 120	
Antimony	0.200	0.212		mg/L		106	80 - 120	
Arsenic	0.200	0.200		mg/L		100	80 - 120	
Barium	0.200	0.209		mg/L		104	80 - 120	
Beryllium	0.200	0.205		mg/L		102	80 - 120	
Boron	0.200	0.203		mg/L		102	80 - 120	
Cadmium	0.200	0.200		mg/L		100	80 - 120	
Calcium	10.0	10.10		mg/L		101	80 - 120	
Chromium	0.200	0.205		mg/L		102	80 - 120	
Cobalt	0.200	0.198		mg/L		99	80 - 120	
Copper	0.200	0.203		mg/L		101	80 - 120	
Iron	10.0	10.22		mg/L		102	80 - 120	
Magnesium	10.0	10.52		mg/L		105	80 - 120	
Manganese	0.200	0.209		mg/L		104	80 - 120	
Nickel	0.200	0.193		mg/L		97	80 - 120	
Potassium	10.0	9.56		mg/L		95	80 - 120	
Selenium	0.200	0.197		mg/L		99	80 - 120	
Silver	0.0500	0.0486		mg/L		97	80 - 120	
Sodium	10.0	9.62		mg/L		96	80 - 120	
Tin	0.200	0.237		mg/L		118	80 - 120	
Vanadium	0.200	0.198		mg/L		99	80 - 120	
Zinc	0.200	0.203		mg/L		102	80 - 120	

Lab Sample ID: LCSD 480-627560/3-A

Matrix: Water

Analysis Batch: 628137

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 627560

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	10.0	10.14		mg/L		101	80 - 120	1	20
Antimony	0.200	0.214		mg/L		107	80 - 120	1	20
Arsenic	0.200	0.203		mg/L		102	80 - 120	1	20
Barium	0.200	0.205		mg/L		103	80 - 120	2	20
Beryllium	0.200	0.203		mg/L		102	80 - 120	1	20
Boron	0.200	0.201		mg/L		100	80 - 120	1	20
Cadmium	0.200	0.199		mg/L		100	80 - 120	0	20
Calcium	10.0	10.04		mg/L		100	80 - 120	1	20
Chromium	0.200	0.203		mg/L		102	80 - 120	1	20
Cobalt	0.200	0.199		mg/L		99	80 - 120	0	20
Copper	0.200	0.204		mg/L		102	80 - 120	1	20

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Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-627560/3-A

Matrix: Water

Analysis Batch: 628137

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 480-198237-1

Prep Batch: 627560

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	10.0	10.24		mg/L		102	80 - 120	0	20
Magnesium	10.0	10.56		mg/L		106	80 - 120	0	20
Manganese	0.200	0.206		mg/L		103	80 - 120	1	20
Nickel	0.200	0.194		mg/L		97	80 - 120	0	20
Potassium	10.0	9.34		mg/L		93	80 - 120	2	20
Selenium	0.200	0.196		mg/L		98	80 - 120	1	20
Silver	0.0500	0.0493		mg/L		99	80 - 120	1	20
Sodium	10.0	9.50		mg/L		95	80 - 120	1	20
Tin	0.200	0.237		mg/L		119	80 - 120	0	20
Vanadium	0.200	0.196		mg/L		98	80 - 120	1	20
Zinc	0.200	0.201		mg/L		100	80 - 120	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-627565/1-A

Matrix: Water

Analysis Batch: 627904

ND

мв мв Qualifier RL MDL Unit

Spike

Added

0.0200

20.0

Spike

Added

0.00667

0.0010

0.20

0.00017

LCS LCS

LCS LCS

0.0201

19.94

Result Qualifier

mg/L

Unit

mg/L

ug/L

0.019 ug/L

Analyte Result ND

Lead Thallium

Lab Sample ID: LCS 480-627565/2-A

Matrix: Water

Analyte

Lead

Analysis Batch: 627904

Thallium Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-627537/1-A

Matrix: Water

Analysis Batch: 627679

мв мв

Analyte Result Qualifier MDL Unit 0.00020 0.000043 mg/L Mercury ND

Lab Sample ID: LCS 480-627537/2-A

Matrix: Water

Analysis Batch: 627679

Analyte Mercury

Prepared

05/26/22 09:34

05/26/22 09:34

%Rec

101

100

Prepared

05/25/22 10:57

D

Prep Type: Total/NA **Prep Batch: 627565**

Client Sample ID: Method Blank

05/26/22 15:29

Analyzed

05/26/22 15:29

Client Sample ID: Lab Control Sample

Limits

80 - 120

80 - 120

Prep Type: Total/NA

Prep Batch: 627565

Client Sample ID: Method Blank

Analyzed

05/25/22 15:24

Prep Type: Total/NA Prep Batch: 627537

Dil Fac

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 627537

%Rec

Result Qualifier Unit %Rec Limits 0.00738 111 mg/L 80 - 120

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Dil Fac

Project/Site: Farwell Landfill - Leachate Expanded

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-628391/28

Matrix: Water Analysis Batch: 628391

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.073	mg/L			06/02/22 02:10	1
Chloride	ND		0.50	0.28	mg/L			06/02/22 02:10	1
Sulfate	ND		2.0	0.35	mg/L			06/02/22 02:10	1

Lab Sample ID: LCS 480-628391/29

Matrix: Water

Analysis Batch: 628391

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromide	5.01	4.70		mg/L		94	90 - 110	
Chloride	50.1	48.69		mg/L		97	90 - 110	
Sulfate	50.0	48.79		mg/L		98	90 - 110	

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-628187/17

Matrix: Water

Analysis Batch: 628187

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0	4.0	mg/L			05/31/22 12:27	1

Lab Sample ID: MB 480-628187/21

Matrix: Water

Analysis Batch: 628187

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	6.88	J	10.0	4.0	mg/L			05/31/22 12:47	1

Lab Sample ID: LCS 480-628187/20

Matrix: Water

Analysis Batch: 628187

	Spike	LCS LCS				%Rec	
Analyte	Added	Result Qualifi	er Unit	D	%Rec	Limits	
Alkalinity, Total	50.0	51.81	ma/L		104	90 - 110	

Lab Sample ID: 480-198237-1 MS

Matrix: Water

Analysis Batch: 628187

_	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Alkalinity, Total	1150	В	20.0	1172	4	ma/L		92	60 - 140

Lab Sample ID: 480-198237-1 MSD

Matrix: Water

Analysis Batch: 628187											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Alkalinity, Total	1150	В	20.0	1193	4	mg/L		197	60 - 140	2	20

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: L-1

Client Sample ID: L-1

Prep Type: Total/NA

Prep Type: Total/NA

Project/Site: Farwell Landfill - Leachate Expanded

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-627541/51 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 627541

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Ammonia as N ND 0.020 0.0090 mg/L as N 05/25/22 09:33

Lab Sample ID: LCS 480-627541/52 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 627541

		Spike	LCS	LCS				%Rec	
١.	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110	

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-628785/1-A Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA **Prep Batch: 628785 Analysis Batch: 628876** MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Total Kjeldahl Nitrogen ND 0.20 0.19 mg/L as N 06/04/22 09:00 06/06/22 05:40

Lab Sample ID: LCS 480-628785/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 628876

Prep Batch: 628785 Spike LCS LCS %Rec Analyte Added Qualifier Unit %Rec Limits Result

Total Kjeldahl Nitrogen 2.50 90 - 110 2.42 mg/L as N

Lab Sample ID: 480-198237-1 MS

Matrix: Water

Analysis Batch: 628876

Prep Batch: 628785 Spike MS MS Sample Sample %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Total Kjeldahl Nitrogen 102 1.00 111.5 4 969 90 - 110 mg/L as N

Method: 410.4 - COD

Lab Sample ID: MB 480-627874/27 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 627874

	MR MR						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND -	10.0	5.0 mg/L			05/26/22 19:00	1

Lab Sample ID: LCS 480-627874/28 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 627874

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chemical Oxygen Demand	25.0	24.02		mg/L		96	90 - 110	

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Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: L-1

Prep Type: Total/NA

Project/Site: Farwell Landfill - Leachate Expanded

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-627966/16

Analysis Batch: 627966

мв мв Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Total Recoverable Phenolics ND 0.0050 0.0035 mg/L 05/27/22 07:03

Lab Sample ID: MB 480-627966/73

Matrix: Water

Matrix: Water

Analysis Batch: 627966

MB MB

Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed Total Recoverable Phenolics ND 0.0050 0.0035 mg/L 05/27/22 10:33

Lab Sample ID: LCS 480-627966/17 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 627966

LCS LCS Spike %Rec Added Result Qualifier Unit Limits Total Recoverable Phenolics 0.100 0.0969 mg/L 90 - 110

Lab Sample ID: LCS 480-627966/74 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 627966

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Total Recoverable Phenolics 0.100 0.0971 90 - 110 mg/L

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-627486/3

Matrix: Water

Analysis Batch: 627486

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL Prepared Analyzed Chromium, hexavalent ND 0.010 0.0050 mg/L 05/24/22 11:15

Lab Sample ID: LCS 480-627486/4

Matrix: Water

Analysis Batch: 627486

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits 0.0500 Chromium, hexavalent 0.0487 mg/L 97 85 - 115

Lab Sample ID: 480-198237-1 MS

Matrix: Water

Chromium, hexavalent

Analysis Batch: 627486

Sample Sample Spike MS MS %Rec Analyte Result Qualifier babbA Result Qualifier Unit %Rec Limits 0.0500

ND

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6/10/2022

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

85 - 115

100

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: L-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Dil Fac

0.0499

mg/L

Project/Site: Farwell Landfill - Leachate Expanded

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-628212/1-A **Matrix: Water**

Analysis Batch: 628277

Prep Type: Total/NA

Prep Batch: 628212 мв мв

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: L-1

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Cyanide, Total 0.00731 J 0.010 0.0050 mg/L 05/31/22 15:59 06/01/22 08:25

Lab Sample ID: LCS 480-628212/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 628277

Prep Batch: 628212 Spike LCS LCS %Rec Result Qualifier Analyte Added Unit D %Rec Limits Cyanide, Total 0.250 0.265 mg/L 106 90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-628513/28 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 628513

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total Organic Carbon 0.673 J 1.0 0.43 mg/L 06/01/22 03:52

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 480-628513/29

Matrix: Water

Analysis Batch: 628513

Spike LCS LCS %Rec Analyte Added Qualifier Unit %Rec Limits Result Total Organic Carbon 60.0 58.76 mg/L 90 - 110

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-627676/3 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 627676

мв мв

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Color ND 5.00 5.00 Color Units 05/25/22 08:00

Lab Sample ID: LCS 480-627676/4

Matrix: Water

Analysis Batch: 627676

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Color 30.0 30.00 Color Units 100 90 - 110

Lab Sample ID: 480-198237-1 DU

Matrix: Water

Analysis Batch: 627676

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Limit Unit RPD Color 25.0 25.00 Color Units 20

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6/10/2022

Project/Site: Farwell Landfill - Leachate Expanded

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-627944/1

Matrix: Water

Analysis Batch: 627944

мв мв

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Filterable Residue (180 C) ND 10.0 4.0 mg/L 05/27/22 11:31

Lab Sample ID: LCS 480-627944/2

Matrix: Water

Analysis Batch: 627944

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Filterable Residue (180 C) 538 503.0 mg/L 93 85 - 115

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-628011/3

Matrix: Water

Analysis Batch: 628011

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Sulfide ND 1.0 0.67 mg/L 05/27/22 15:15

Lab Sample ID: LCS 480-628011/4

Matrix: Water

Analysis Batch: 628011

Spike LCS LCS %Rec Added Qualifier Unit %Rec Limits Result Sulfide 6.00 90 - 110 6.40 mg/L 107

Lab Sample ID: 480-198237-1 MS

Matrix: Water

Analysis Batch: 628011

Sample Sample MS MS %Rec Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Sulfide ND F1 3.00 ND F1 40 - 150 mg/L

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-627475/1

Matrix: Water

Analysis Batch: 627475

USB USB

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Biochemical Oxygen Demand ND 2.0 2.0 mg/L 05/24/22 18:03

Lab Sample ID: LCS 480-627475/2

Matrix: Water

Analysis Batch: 627475

Spike LCS LCS %Rec Added Result Qualifier Limits Unit %Rec 198 185.5 **Biochemical Oxygen Demand** ma/L 85 - 115

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6/10/2022

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: L-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Cattaraugus County

Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

GC/MS VOA

Analysis Batch: 62801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	8260C	
480-198237-2	Trip Blank	Total/NA	Water	8260C	
MB 480-628019/8	Method Blank	Total/NA	Water	8260C	
LCS 480-628019/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 627445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	3510C	
MB 480-627445/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-627445/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 627554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	8270D	627445
MB 480-627445/1-A	Method Blank	Total/NA	Water	8270D	627445
LCS 480-627445/2-A	Lab Control Sample	Total/NA	Water	8270D	627445

GC Semi VOA

Prep Batch: 627510

Lab Sample ID 480-198237-1	Client Sample ID	Prep Type Total/NA	Matrix Water	Method 3510C	Prep Batch
MB 480-627510/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-627510/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 627511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	3510C	
MB 480-627511/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-627511/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-627511/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 627564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	8151A	
MB 480-627564/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-627564/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 480-627564/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 627607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	8082A	627510
MB 480-627510/1-A	Method Blank	Total/NA	Water	8082A	627510
LCS 480-627510/2-A	Lab Control Sample	Total/NA	Water	8082A	627510

Analysis Batch: 627706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	8081B	627511
MB 480-627511/1-A	Method Blank	Total/NA	Water	8081B	627511
LCS 480-627511/2-A	Lab Control Sample	Total/NA	Water	8081B	627511

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6/10/2022

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Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

GC Semi VOA (Continued)

Analysis	Batch:	627706	(Continued)
Allalysis	Dateii.	021100	Continueu

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-627511/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	627511

Analysis Batch: 627984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	8151A	627564
MB 480-627564/1-A	Method Blank	Total/NA	Water	8151A	627564
LCS 480-627564/2-A	Lab Control Sample	Total/NA	Water	8151A	627564
LCSD 480-627564/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	627564

Metals

Prep Batch: 627537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	7470A	
MB 480-627537/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-627537/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 627560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	3005A	
MB 480-627560/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-627560/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-627560/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Prep Batch: 627565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	3020A	
MB 480-627565/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-627565/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 627679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	7470A	627537
MB 480-627537/1-A	Method Blank	Total/NA	Water	7470A	627537
LCS 480-627537/2-A	Lab Control Sample	Total/NA	Water	7470A	627537

Analysis Batch: 627904

Lab Sample ID 480-198237-1	Client Sample ID L-1	Prep Type Total/NA	Matrix Water	Method 6020A	Prep Batch 627565
MB 480-627565/1-A	Method Blank	Total/NA	Water	6020A	627565
LCS 480-627565/2-A	Lab Control Sample	Total/NA	Water	6020A	627565

Analysis Batch: 628137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	6010C	627560
MB 480-627560/1-A	Method Blank	Total/NA	Water	6010C	627560
LCS 480-627560/2-A	Lab Control Sample	Total/NA	Water	6010C	627560
LCSD 480-627560/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	627560

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6/10/2022

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Analysis Batch: 62853	Anal	/sis	Batch:	628536
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 627475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	SM 5210B	
USB 480-627475/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-627475/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 627486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	7196A	
MB 480-627486/3	Method Blank	Total/NA	Water	7196A	
LCS 480-627486/4	Lab Control Sample	Total/NA	Water	7196A	
480-198237-1 MS	L-1	Total/NA	Water	7196A	

Analysis Batch: 627490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	353.2	

Analysis Batch: 627541

Lab Sample ID 480-198237-1	Client Sample ID L-1	Prep Type Total/NA	Matrix Water	Method 350.1	Prep Batch
MB 480-627541/51	Method Blank	Total/NA	Water	350.1	
LCS 480-627541/52	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 627676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	SM 2120B	
MB 480-627676/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-627676/4	Lab Control Sample	Total/NA	Water	SM 2120B	
480-198237-1 DU	L-1	Total/NA	Water	SM 2120B	

Analysis Batch: 627874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	410.4	
MB 480-627874/27	Method Blank	Total/NA	Water	410.4	
LCS 480-627874/28	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 627944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	SM 2540C	
MB 480-627944/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-627944/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 627966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	420.4	
MB 480-627966/16	Method Blank	Total/NA	Water	420.4	
MB 480-627966/73	Method Blank	Total/NA	Water	420.4	

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Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

General Chemistry (Continued)

Analysis Batch: 627966 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-627966/17	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-627966/74	Lab Control Sample	Total/NA	Water	420.4	

Analysis Batch: 628011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	SM 4500 S2 F	
MB 480-628011/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-628011/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-198237-1 MS	L-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 628187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	310.2	
MB 480-628187/17	Method Blank	Total/NA	Water	310.2	
MB 480-628187/21	Method Blank	Total/NA	Water	310.2	
LCS 480-628187/20	Lab Control Sample	Total/NA	Water	310.2	
480-198237-1 MS	L-1	Total/NA	Water	310.2	
480-198237-1 MSD	L-1	Total/NA	Water	310.2	

Prep Batch: 628212

Lab Sa 480-19	ample ID 98237-1	Client Sample ID L-1	Prep Type Total/NA	Matrix Water	Method 9012B	Prep Batch
MB 48	0-628212/1-A	Method Blank	Total/NA	Water	9012B	
LCS 48	80-628212/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 628277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	9012B	628212
MB 480-628212/1-A	Method Blank	Total/NA	Water	9012B	628212
LCS 480-628212/2-A	Lab Control Sample	Total/NA	Water	9012B	628212

Analysis Batch: 628391

Lab Sample ID 480-198237-1	Client Sample ID	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 480-628391/28	Method Blank	Total/NA	Water	300.0	
LCS 480-628391/29	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 628513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	9060A	
MB 480-628513/28	Method Blank	Total/NA	Water	9060A	
LCS 480-628513/29	Lab Control Sample	Total/NA	Water	9060A	

Prep Batch: 628785

Lab Sample ID 480-198237-1	Client Sample ID	Prep Type Total/NA	Matrix Water	Method 351.2	Prep Batch
MB 480-628785/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-628785/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-198237-1 MS	L-1	Total/NA	Water	351.2	

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Client: Cattaraugus County

Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

General Chemistry

Analysis Batch: 628876

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	480-198237-1	L-1	Total/NA	Water	351.2	628785
	MB 480-628785/1-A	Method Blank	Total/NA	Water	351.2	628785
	LCS 480-628785/2-A	Lab Control Sample	Total/NA	Water	351.2	628785
Į	480-198237-1 MS	L-1	Total/NA	Water	351.2	628785

Field Service / Mobile Lab

Analysis Batch: 627941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198237-1	L-1	Total/NA	Water	Field Sampling	

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Project/Site: Farwell Landfill - Leachate Expanded

Client Sample ID: L-1

Client: Cattaraugus County

Lab Sample ID: 480-198237-1

Matrix: Water

Date Collected: 05/23/22 14:30 Date Received: 05/23/22 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	628019	05/28/22 04:42	AXK	TAL BUF
Total/NA	Prep	3510C			627445	05/24/22 15:35	CMC	TAL BUF
Total/NA	Analysis	8270D		1	627554	05/25/22 16:58	JMM	TAL BUF
Total/NA	Prep	3510C			627511	05/25/22 09:02	MS	TAL BUF
Total/NA	Analysis	8081B		1	627706	05/26/22 11:33	JLS	TAL BUF
Total/NA	Prep	3510C			627510	05/25/22 08:46	MS	TAL BUF
Total/NA	Analysis	8082A		1	627607	05/26/22 00:13	DSC	TAL BUF
Total/NA	Prep	8151A			627564	05/25/22 10:55	JMP	TAL BUF
Total/NA	Analysis	8151A		1	627984	05/27/22 20:13	MAN	TAL BUF
Total/NA	Prep	3005A			627560	05/26/22 09:50	NVK	TAL BUF
Total/NA	Analysis	6010C		1	628137	05/27/22 17:47	LMH	TAL BUF
Total/NA	Prep	3020A			627565	05/26/22 09:34	NVK	TAL BUF
Total/NA	Analysis	6020A		1	627904	05/26/22 16:41	BMB	TAL BUF
Total/NA	Prep	7470A		4	627537	05/25/22 10:57	NVK	TAL BUF
Total/NA	Analysis	7470A		1	627679	05/25/22 15:59	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	628536	06/02/22 12:54	LMH	TAL BUF
Total/NA	Analysis	300.0		10	628391	06/02/22 07:44	IMZ	TAL BUF
Total/NA	Analysis	310.2		20	628187	05/31/22 12:48	IMZ	TAL BUF
Total/NA	Analysis	350.1		50	627541	05/25/22 09:39	CLT	TAL BUF
Total/NA	Prep	351.2			628785	06/04/22 09:00	EAG	TAL BUF
Total/NA	Analysis	351.2		50	628876	06/06/22 09:40	CLT	TAL BUF
Total/NA	Analysis	353.2		1	627490	05/24/22 19:41	CSS	TAL BUF
Total/NA	Analysis	410.4		2	627874	05/26/22 19:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	627966	05/27/22 11:05	CLT	TAL BUF
Total/NA	Analysis	7196A		1	627486	05/24/22 11:15	CSS	TAL BUF
Total/NA	Prep	9012B			628212	05/31/22 15:59	NLK	TAL BUF
Total/NA	Analysis	9012B		1	628277	06/01/22 08:47	CLT	TAL BUF
Total/NA	Analysis	9060A		1	628513	06/01/22 07:07	KER	TAL BUF
Total/NA	Analysis	SM 2120B		1	627676	05/25/22 08:00	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	627944	05/27/22 11:31	SAK	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	628011	05/27/22 15:15	DLG	TAL BUF
Total/NA	Analysis	SM 5210B		1	627475	05/24/22 18:03	RDA	TAL BUF
Total/NA	Analysis	Field Sampling		1	627941	05/23/22 14:30	FLD	TAL BUF
_ IOIGI/IVA	Allalysis	i iciu Sallipiiliy		ı	021941	03/23/22 14.30	I LD	IAL DUF

Client Sample ID: Trip Blank Date Collected: 05/23/22 00:00

Lab Sample ID: 480-198237-2

Matrix: Water

Date Received: 05/23/22 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628019	05/28/22 05:05	AXK	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins Buffalo

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Accreditation/Certification Summary

Client: Cattaraugus County Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority		Program	Identification Number	Expiration Date
ew York		NELAP	10026	03-31-23
0 ,	•	rt, but the laboratory is not cer	rtified by the governing authority. This list ma	ay include analytes for wh
the agency does not of Analysis Method	Prep Method	Matrix	Analyte	
300.0		Water	Bromide	
8260C		Water	1,2-Dichloroethene, Total	
Field Sampling		Water	Field EH/ORP	
Field Sampling		Water	pH, Field	
Field Sampling		Water	Specific Conductance, Field	
Field Sampling		Water	Temperature, Field (C)	
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Method Summary

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Method Method Description Protocol Laboratory SW846 TAL BUF 8260C Volatile Organic Compounds by GC/MS 8270D Semivolatile Organic Compounds (GC/MS) SW846 TAL BUF 8081B Organochlorine Pesticides (GC) SW846 **TAL BUF** 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography SW846 TAL BUF 8151A Herbicides (GC) SW846 TAL BUF 6010C Metals (ICP) SW846 TAL BUF 6020A Metals (ICP/MS) SW846 TAL BUF Mercury (CVAA) TAL BUF 7470A SW846 Total Hardness (as CaCO3) by calculation TAL BUF SM 2340B 300.0 Anions, Ion Chromatography **MCAWW** TAL BUF 310.2 Alkalinity MCAWW TAL BUF 350 1 Nitrogen, Ammonia **MCAWW** TAL BUF 351.2 Nitrogen, Total Kjeldahl MCAWW TAL BUF 353.2 Nitrate EPA TAL BUF 410.4 COD **MCAWW** TAL BUF 420.4 Phenolics. Total Recoverable MCAWW TAL BUF 7196A Chromium, Hexavalent SW846 TAL BUF 9012B Cyanide, Total andor Amenable SW846 TAL BUF SW846 TAL BUF 9060A Organic Carbon, Total (TOC) SM 2120B Color, Colorimetric SM TAL BUF SM 2540C Solids, Total Dissolved (TDS) TAL BUF SM SM 4500 S2 F Sulfide, Total SM TAL BUF SM 5210B BOD, 5-Day SM TAL BUF Field Sampling Field Sampling **EPA** TAL BUF 3005A Preparation, Total Metals SW846 TAL BUF 3020A Preparation, Total Metals SW846 TAL BUF Nitrogen, Total Kjeldahl MCAWW 351.2 TAL BUF 3510C Liquid-Liquid Extraction (Separatory Funnel) SW846 TAL BUF 5030C Purge and Trap SW846 TAL BUF 7470A Preparation, Mercury SW846 TAL BUF 8151A Extraction (Herbicides) SW846 TAL BUF

Protocol References:

9012B

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Cyanide, Total and/or Amenable, Distillation

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins Buffalo

SW846

TAL BUF

Job ID: 480-198237-1

Sample Summary

Client: Cattaraugus County

Project/Site: Farwell Landfill - Leachate Expanded

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198237-1	L-1	Water	05/23/22 14:30	05/23/22 17:00
480-198237-2	Trip Blank	Water	05/23/22 00:00	05/23/22 17:00

Job ID: 480-198237-1

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Quantitation Limit Exceptions Summary

Client: Cattaraugus County

Job ID: 480-198237-1

Project/Site: Farwell Landfill - Leachate Expanded

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8270D	Dibenzofuran	Water	Total/NA	ug/L	5.0	10
6010C	Arsenic	Water	Total/NA	mg/L	0.010	0.015
6010C	Cadmium	Water	Total/NA	mg/L	0.0010	0.002
6010C	Selenium	Water	Total/NA	mg/L	0.015	0.025
6010C	Silver	Water	Total/NA	mg/L	0.0030	0.006
420.4	Total Recoverable Phenolics	Water	Total/NA	mg/L	0.0050	0.010

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Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Phone 716-691-2600	O	hain o	Chain of Custody Record	ody Re	cor	ъ									eurofins En	Environment Testing America
Clina Information	Sampler	MIM		Lab PN VanD	Lab PM. VanDette Rvan T	T ue				Carr	Carrier Tracking No(s)	s)oN Bui	2		COC No 480-173653-37500 1	
Client Contact	Phone			E-Mail:			'			State	State of Origin	2			Page:	
Austin Kimes		٩	PWSID	Kyan	vanDet	le@et	enrofin	us cor	١	+					Page 1 of 2	
Cattaraugus County								Analy	sis R	Analysis Requested	sted					
Address: 8810 Route 242	Due Date Requested:	÷			4									200	o O	
Criv. Little Valley	TAT Requested (days	/s):					seliles								B NaOH N C - Zn Acetate O -	N - Nexane N - None O - AsNaO2
State, Zip: NY, 14755	Compliance Project:	A Yes A	No			_	islovir							OF		Na2SO4S Na2SO3
Phone	Po #. Purchase Order not required	not required			î le		uəs pe			soiles		_	80 C)		D	H2SO4 TSP Dodecahydrate
Email: amkimes@cattco org	*OM					_	pueds		80	Phen	_		L) enp	8.		Acetone
Project Name. Cattaraugus County/ Event Desc. Farwell Leachate Expanded M 48003171	Project # 1 M 48003171					set	360 E		SM234				iseA el		K-EDTA W-	W - pH 4-5 Z - other (specify)
Site New York	\$SOW#				W) 08				,A074				dsretli		Other:	
		Sample		Matrix (Winnester, Smooted, Onwaste/oil,	berealis bid	9 (OOM) - ASS 9 (OOM) - B18	N (GOM) - G07	0.0_28D - Br/C	10C, 6020A, 7	100 - Total	10 latoT - A08	71A - NY Part 10B - Blochen	4 - bols 2_200	14500_S2_F -		
Sample Identification	Sample Date	Time	G=grab) BT=Tissue, A=/	3	ed X		-	0,	09 0	74	-		-		Special Instructions/Note:	ctions/Note:
1-1	5/13/12	H.	8	Water		X	×	X	X	V	X	X	X	V	hely fro	
TRIP BLANK				Water		-				-		-				
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					#	+		+		_ =	_	- !	_			
								+-								
										480	480-198237 Chain of Custody	7 Cha	n of C	ustod		
						++				++		+-	甘	20 200		
July 1	Poison B Unknown		Radiological		Samı	ole Dis	le Disposal (A 1	A fee	may be	Dispo	assessed if san	sampl	es are	retain	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	nth)
I, III. IV, Other (specify)					Speci	Special Instructions/QC Requirements:	uctions	/QC R	equirer	nents:						
Empty Kit Relinquished by:		Date:			Time:		=				Method	Method of Shipment	hent			
Relinquished by Relinquished by	Date/Time.		3 8	Company	œ œ	Received by Received by		M	30	2)	1/01/	Date	Date/Time:	51	23122 Cm	Company
Relinquished by	Date/Time:		Š	Company	ď	Received by	34.					Date	Date/Time		Com	Company
Custody Seals Infact: Custody Seal No. 10 7	81.60				Ö	poler Ter	nperatur	s(s) °C a	nd Other	Cooler Temperature(s) °C and Other Remarks		\exists	1	2	サーナロー	
Δ Yes. Δ No					١,							Н		ار	,	Ver: 06/08/2021

15 16 17

🔅 eurofins

Chain of Custody Record

Phone: 716-691-2600 Fax: 716-691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

Eurofins Buffalo

N - None
O - ANNAO2
P - NA2O4S
Q - NA2SO3
R - NA2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5 Special Instructions/Note: Ver: 06/08/2021 other (specify) Months Сотрапу Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon COC No. 480-173653-37500.2 Preservation Codes: A - HCL
B - NaOH
C - Zn Acetate
D - Nitro Acid
F - MasOA
F - Machlor
G - Amchlor
H - Ascorbic Acid Page: Page 2 of 2 Job #: I - Ice J - Di Water K - EDTA L - EDA 3 Total Number of containers Date/Time Method of Shipment Carrier Tracking No(s) State of Origin **Analysis Requested** Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements: E-Mail Ryan. VanDette@et. eurofinsus. com X 310.2 - Alkalinity, Total X X 2120B, 353.2, 353.2 Nitrite, Nitrate_Calc Received by Received by Received by 9012B - Cyanide, Total Lab PM VanDette, Ryan T X FieldSampling - (MOD) Local Method erform MS/MSD (Yes or No) Time: Company BT=Tissue, A=Air Preservation Code: (Winvater, Singolid, Oinvasteroil, Water Matrix Water Company Company Radiological Sample Type (C=comp, G=grab) 0 Compliance Project: A Yes A No Purchase Order not required 1430 Sample JAMA Date: Unknown TAT Requested (days): **Date Requested:** Sample Date 5/13/12 Date/Fiffe St 8 Project Name.

Cattaraugus County/ Event Desc: Farwell Leachate Expanded M 48003171
Site. 8790791 Date/Time Poison B Skin Imtant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seals Intact: Custody Seal No. Non-Hazard Flammable Possible Hazard Identification Empty Kit Relinquished by: Client Information Sample Identification amkimes@cattco.org Cattaraugus County 8810 Route 242 Client Contact: Austin Kimes TRIP BLANK telinquished by elinquished by yd peysinbu Little Valley State, Zip. NY, 14755 New York



Telephone: <u>716-386-8143</u> Fax; 716-366-8092

Email:

enviroteknix@outlook.com

302 Lakeshore Drive East Dunkirk, New York USA 14048

LANDFILL MONITORING FIELD LOG SHEET

Facility:	Farwe	ell Landfl	itt			Sample	Point ID:	L-1	
Field Pers	onnel:	cs/cs		=8		Sample N	latrix;	Leachate	
Leachate Comment	(X) Good (of Casing/ ed (X) Goo of Seal:	Riser: od () Loose () None (*:	5/23/2022 ged () Flush		_Time:		14:30
<u>Leachate</u>	Sampling: Sampling N Field Data Temp	Method:	Bailer	Date: Dedicated	5/23/2022 : (X)Y ()N	D.O.	Time: Weather/Temp	· · · · · · · · · · · · · · · · · · ·	14:30
	Celsius 9.5	Std Units 7.67	m\$ 3.16	NTU	1	mg/L	Observations/Obser		
	Parameters	Sampled	For:	u	Expanded Pa	rameters Se	et .		
Comments	,								
5				ENVIROTER	NIX SITE/PRO	DJECT MAN		'URE	

Page 50 of 51

Login Sample Receipt Checklist

Client: Cattaraugus County

Job Number: 480-198237-1

Login Number: 198237 List Source: Eurofins Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6 #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
/OA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
f necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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APPENDIX E - INDEPENDENT DATA VALIDATION REPORTS



DATA VALIDATION BASELINE VOC PARAMETERS MONITORING FARWELL LANDFILL

SAMPLED MAY 2022

Prepared for:

CATTARAUGUS COUNTY DPW 8810 Route 242 Little Valley, NY 14755

Prepared by:

DATAVAL, Inc.
201 West Genesee Street, PMB 273
Fayetteville, NY 13066

DATA ASSESSMENT

A data package containing analytical results for 11 aqueous samples, a blind duplicate, and a trip blank was received from Eurofins Buffalo on 16Dec22. The samples were collected from the Farwell Landfill site on 23May22, as required by 6 NYCRR Part 360 (10/94). The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information for Baseline Volatile Organics monitoring. Samples were identified by Chain of Custody documents and traceable through the work of Eurofins Buffalo, the laboratory contracted for analysis. Laboratory data was evaluated according to the Quality Assurance / Quality Control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) was used as a technical reference.

To satisfy the requirement for 5% data validation, data calculations relating to MW-14S were examined in detail. All available QA/QC information was then applied to an evaluation of every program sample.

This group of twelve groundwater samples was collected for VOC analysis by Enviroteknix (ETEX) on 23May22. The samples were packaged with a trip blank and delivered to the laboratory on the day of collection. At the time of laboratory receipt, the cooler of samples was found to be intact and properly chilled. A cooler temperature of 5.1°C was recorded at that time. It could not be determined if custody seals were found on the sample cooler. Proper sample preservation was documented in the field custody record and verified at the time of analysis. These checks confirmed that each program sample was properly stabilized at a pH<2.

Laboratory analyses were well organized, supported by the raw data, and completed within the SW-486 holding time limitations. Areas where program requirements were not completely satisfied are addressed below. A detailed discussion of the review process follows.

VOLATILE ORGANICS

Each VOC analysis incorporates several quality assurance checks to ensure the precision and accuracy of laboratory measurements. These include the addition of surrogates and internal standards to every calibration standard, blank and program sample. A matrix spiked sample, a matrix spiked duplicate, and a matrix spiked blank are also analyzed with each group of samples. ASP protocol defines acceptance criteria for each of these evaluations. The results reported by the laboratory satisfied most of these requirements. The exceptions are addressed below.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each 12-hour period of instrument operation that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. Each of these checks satisfied the ASP acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration for VOC was performed on 18May22. Standards of 0.5, 1.0, 2.0, 5.0, 10, 25, 50 and 100 $\mu g/l$ were included. Each analyte targeted by this program produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A continuing calibration check standard was analyzed on 31May22, prior to the twelve-hour period of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Trip blanks and field blanks monitor sampling, shipping and storage activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank and a trip blank were analyzed with this group of samples. Although both of these blanks demonstrated acceptable chromatography, the trip blank contained traces of acetone. A similar artifact was found in MW-14S. This concentration should be interpreted as undetected and a detection limit equaling the laboratory's reporting limit should be assumed.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Although Surrogate Summary Sheets were properly prepared, an incorrect acceptance criteria was applied. However, when compared to the ASP requirements an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to these limits, an acceptable response was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

MW-15I was selected for matrix spiking. The entire list of targeted analytes was added to two aliquots of this sample. The recoveries reported for these spikes included high results for acetone (139%,138%) and 1,1,1-trichloroethane (132%) and low recoveries of trans-1,4-dichloro-2-butene (41%,44%) and vinyl acetate (58%,60%). The positive bias indicated by the high recoveries warrants no concern because acetone and 1,1,1-trichloroethane were not detected in MW-15I. The trans-1,4-dichloro-2-butene (14CL2-2-BUT) and vinyl acetate (VIN ACE) results from MW-15I have been qualified as estimations.

A spiked blank (LCS) was also analyzed with this group of samples. The recoveries reported from this LCS sample included a low recovery of trans-1,4-dichloro-2-butene (55%). The trans-1,4-dichloro-2-butene results from this project have been qualified as estimations based on this indication of negative bias.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print outs. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples. Tentatively Identified Compounds (TIC) were not reported.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "U". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant interpretation or utilization of this data by a third party.

Reviewer's signature:

James B. Baldwin DATAVAL, Inc.

Date: 237222

QUALIFIED DATA FARWELL LANDFILL SAMPLED MAY 2022

	BLANK ACETONE	SPIKE 14CL2-2-BUT	SPIKE VIN ACE
TRIP BLANK		5.0UJ	
DUP Y		5.0UJ	
MW-14I	1.053	5.0UJ	
MW-14S	100	5.0UJ	F 011.7
MW-15I MW-15S		5.0UJ	5.0UJ
MW-16I		5.0UJ 5.0UJ	
MW-16S		5.0UJ	
MW-17I		5.0UJ	
MW-17S		5.0UJ	
MW-21		5.0UJ	
MW-22		5.0UJ	
MW-23		5.0UJ	

DATA REVIEW FARWELL LANBFILL LEACHATE MONITORING

SAMPLED MAY 2022

Prepared for:

CATTARAUGUS COUNTY DPW 8810 Route 242 Little Valley, NY 14755

Prepared by:

DATAVAL, Inc. 201 West Genesee Street, PMB 273 Fayetteville, NY 13066

DATA ASSESSMENT

A Cat B data package containing analytical results for one leachate sample and a trip blank was received from Eurofins Buffalo on 16Dec22. The sample was collected from the Farwell Landfill site on 23May22, as required by 6 NYCRR Part 360 (10/94). The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information for Expanded Parameters monitoring. The sample was identified by Chain of Custody documents and traceable through the work of ETEX and Eurofins Buffalo, the organizations contracted for sampling and analysis. Laboratory data was evaluated according to the Quality Assurance / Quality Control Requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-33, Rev 3, Low/Medium Volatile Data Validation; SOP HW-35, Rev 2, Semivolatile Data Valibation; SOP HW-2a, Rev 15, ICP-AES Data Validation; SOP HW-2b Rev 15, ICP-MS Data Validation; SOP HW-36, Rev 4, Pesticide Data Validation, SOP HW-37, Rev 3, Poly-chlorinated Biphenyl (PCB) Data Validation; and SOP HW-17 Rev 3, Validating Chlorinated Herbicides GC, SW-846 Method 8151A) were used as a technical reference.

The volumes Of L-1 for expanded parameters monitoring were collected and shipped to the laboratory, via ETEX, on 23May22. The shipment of samples arrived intact and packaged with ice. A cooler temperature of 5.6°C was recorded at the time of receipt.

Proper sample preservation was documented in the field custody record and verified in the laboratory. A pH<2 was obtained from each VOC sample at the time of analysis. These checks verified that each sample volume was properly preserved.

Laboratory analyses were well organized and in most cases completely supported by the raw data. Areas where program requirements were not completely satisfied are addressed below. A detailed discussion of the review process follows.

LEACHATE INDICATORS

Test methods for the determination of Leachate Indicators utilize classical wet chemistry techniques. In most cases, these methods were performed well and demonstrated excellent quality control. Areas where program requirements were not satisfied are addressed below.

It is noted that the wet chemistry results for alkalinity, TKN and phenolics were provided without the supporting raw data. This made it impossible to verify the calculations that produced these results. This omission should be considered when reviewing the data.

Total Organic Carbon (TOC)

The TOC spike to sample L-1 produced a high recovery of 131%. The TOC result from L-1 has been qualified as an estimation based on this indication of positive bias.

Sulfide

The sulfide spike to L-1 was completely unrecovered (0%). The sulfide result from L-1 must be considered unreliable based on this performance. It should not be included in data tables.

Color

The sample for color analysis was held for two days prior to analysis. This exceeded the allowed holding time by one day. However, samples are normally allow one day for shipment, and these samples were received on the day they were collected. Data qualifications are not required.

INORGANICS

The analysis of each metal was associated with the appropriate quality control checks, as defined by ASP protocol. The results produced by these checks satisfied the program acceptance criteria. The metals results from L-1 should be considered completely usable and without qualifications based on this performance.

VOLATILE ORGANICS

Each VOA analysis incorporates several quality assurance checks to ensure the precision and accuracy of laboratory measurements. These include the addition of surrogates and internal standards to every calibration standard, blank and program sample. A matrix spiked sample, a matrix spiked duplicate, and a matrix spiked blank are also analyzed with each group of samples. ASP protocol defines acceptance criteria for each of these evaluations. The results reported by the laboratory satisfied most of these requirements. The exceptions are detailed below.

Calibration

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations for VOC were performed on 09May22. Standards of 0.5, 1.0, 2.0, 5.0, 25, 50 and 100 μ g/l were included. With the exception of dichlorodifluoromethane and isobutanol, each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration. Dichlorodifluoromethane, however, failed to produce the required levels of instrument

response and isobutanol demonstrated poor linearity. Based on this performance, the dichlorodifluoromethane and isobutanol results from L-1 have been qualified as estimations.

A continuing calibration check standard was analyzed on 28May22. When compared to the initial calibration, unacceptable shifts were observed in the instrument response of acrolein (113%), vinyl acetate (28%), methyl methacrylate (31%) and trans-1,4-dichloro-2-butene (25.3%). Based on this performance, the acrolein, vinyl acetate, methyl methacrylate and trans-1,4-dichloro-2-butene results from L-1 and the trip blank have been qualified as estimations.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Although L-1 was not selected for matrix spiking, a spiked blank was analyzed with L-1. The recoveries reported for these additions included high results for acrolein (205%) and vinyl acetate (135%). These indications of positive bias, however, warrant no concern because acrolein and vinyl acetate were not detected in L-1 or the trip blank.

Reported Analytes

The presence of benzene in L-1 could not be verified based on the mass spectra references included in the raw data. Benzene should be interpreted as undetected in this sample and a detection limit equaling the laboratory's reporting limit should be assumed.

SEMIVOLATILE ORGANICS

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Trip blanks and field blanks monitor sampling, transport and storage activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with L-1. Although this blank demonstrated acceptable chromatography, it contained traces of di-n-butylphthalate (DI-N-BUTPHTH). A similar artifact was detected in L-1. This concentration should be interpreted as undetected, with a detection limit equaling the reported concentration.

Although not found in the method blank, diethylphthalate was detected in L-1. This concentration has been qualified as an estimation because low levels of phthalates frequently represent laboratory artifacts. Diethylphthalate (DIETHPHTH) cold not be

removed from the affected sample report because it was not found in the associated method blank.

Reported Analytes

The presence of n-nitrosodi-n-butylamine in L-1 could not be verified based on the mass spectra references included in the raw data. N-nitrosodi-n-butylamine (DI-N-BUTAMINE) should be interpreted as undetected in this sample and a detection limit equaling the laboratory's reporting limit should be assumed.

PESTICIDES

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Trip blanks and field blanks monitor sampling, transport and storage activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with L-1. Although this blank produced acceptable chromatography, it contained traces of endrin aldehyde (ALDEHYDE). A similar artifact was also detected in L-1. This concentration should be interpreted as undetected and a detection limit equaling the laboratory's reporting limit should be assumed.

PCB

The PCB results from L-1 should be considered completely usable and without qualifications as reported.

HERBICIDES

Surrogates

Surrogate Summary Sheets were properly prepared, based on the laboratory's acceptance criteria. When compared to the ASP requirements, however, an unacceptably high recovery was reported for one of the DCAA (802%) additions to L-1. The second addition to L-1 (98%) was recovered successfully. Because L-1 produced negative herbicide results, data qualifications are not required.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Although not selected for matrix spiking, a pair of spiked blanks (LCS/LCSD) was analyzed with L-1. The recoveries reported for these additions included low results for Dinoseb (23%, 25%). The

Dinoseb result from L-1 has been qualified as an estimation based on this indication of negative bias.

CORRECTNESS AND USABILITY

The data package supporting the results from MW27A-0618 was found to be complete and well organized. Reported data is felt to be completely usable in its present form. Data presenting a usable estimation of the conditions being measured has been flagged "J" or "UJ". Estimated data should be used with caution.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:

Date: 23. Dec 22

James B. Baldwin DATAVAL, Inc.

QUALIFIED DATA CHEMUNG COUNTY LANDFILL SAMPLED MAY 2022

	SPIKE	SPIKE	CALIBRATE	SPECTRA ID	BLANK	BLANK	SPECTRA ID	BLANKS
	TOC	SULFIDE	CAL1*	BENZENE	DI-N-BUTPHTH	DIETHPHTH	DI-N-BUTAMINE	ALDEHYDE
L-1 TRIP BLANK	58.9J	REJECT	ALL UJ ALL UJ	4.OU	13U	0.37J	10U	

CAL1* = acrolein, vinyl acetate, methyl methacrylate, trans-1,4-dichloro-2-butene, isobutanol

SPIKE	
DINOSEB	•

L-1 0.49UJ

APPENDIX F – CHAINS-OF-CUSTODY



Chain of Custody Record

0 - AanaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone Special Instructions/Note: Ver: 06/08/2021 Months W - pH 4-5 + HC1 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Montes Special Instructions/QC Requirements: 480-198235 Chain of Custody 480-173652-2691.1 reservation Codes: A - HCL
B - NaOH
C - Zn Acetate
D - Nimc Acid
E - NaHSOA
F - MeOH
G - Amchlor
H - Ascorbic Acid Page 1 of 2 3 · Ice · Di Water K - EDTA Total Number of containers Date/Time Method of Shipmen Carrier Tracking No(s) (Kalh State of Ongin Analysis Requested Cooler Temperature(s) °C and Other Remarks MA CHOW Ryan. VanDette@et.eurofinsus.com Received by 1 1 X × × 32608 - (MOD) TCL IIst OLMO4.2 $\frac{\lambda}{\lambda}$ Lab PM VanDette, Ryan T E-Mail. X X FieldSampling - (MOD) PA Field Parameters (oh to set) dalikali mrohen Ime Field Filtered Sample (Yes or No) るが Preservation Code: Matrix Water Water Water Water Water Water Water Water Water Water Water Company Radiological Sample Type (C=comp, G=grab) 5 970999 Compliance Project: A Yes A No 1405 MINN 17.15 Sample 1330 1345 1225 Purchase Order not requir 1:235 300 ニンユグ 1315 1235 Date: Unknown (AT Requested (days) **Date Requested** 5 23 22 Sample Date Date/Fime Project Name
Cattaraugus County/ Event Desc: FARWELL GW BASELINE Vol 48003171
Site: Date/Time Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Flammable Possible Hazard Identification Empty Kit Relinquished by: Custody Seals Intact Ibmcandrew@cattco.org Client Information Sample Identification Cattaraugus County Non-Hazard Linda McAndrew 8810 Route 242 fundarished by nquished by elinquished by Little Valley State, Zip. NY, 14755 rip Blank New York MW- 14S MW- 14I MW-15I MW-15S MW-16S MW-17S MW-16! MW-171 DUP Y MW-21

Phone: 716-691-2600 Fax 716-691-7991 Amherst, NY 14228-2298 10 Hazelwood Drive

Page 47 of 60

Client Information	Sampler	Sum	5	Lab P	Lab PM VanDette, Ryan T	T	Carner Tracking No(s)	No(s):	COC No 480-173652-2691.2	91.2
Clent Contact Linda McAndrew	Phone:			E-Mail. Ryan.	VanDette	E-Mail Ryan VanDette@et.eurofinsus.com	State of Origin.		Page 2 of 2	
Company: Cattaraugus County			PWSID			Analysis	Analysis Requested		* qor	
Address 8810 Route 242	Due Date Requested:								Preservation Codes.	des:
City Little Valley	TAT Requested (days):	3);			State of the last				B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zp. NY, 14755	Compliance Project:	A Yes A No	No						D - Nitric Acid	P - Na204S Q - Na2SO3
Phone	Po # Purchase Order not requir	ot requir			2019				G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dode
Email bmcandrew@cattco.org	* OM				(0)	77				U - Acetone V - MCAA
Project Name Cattaraugus County/ Event Desc: FARWELL GW BASELINE Vol	Project #				7,10 E	OLW04			K-EDTA L-EDA	W - pH 4-5 Z - other (spe
Site New York	**************************************				N) 08	18II TO.			of con	
					benetlij ble MRM firnotië poilgme2ble	r (dom) - 808			redmuM lesto	
Sample Identification	Sample Date	M M	Preservat	Preservation Code:		28 4				Special Instructions/Note:
MW-22	5/23/22	14.5	0	Water	X	X			100	1117
MW-23	-	1200	-	Water	بد	×				
15, MS		1315		Water	×	×				
S MSD	7	13.15	>	Water	×	×			7	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	Poison B Munknown		Radiological		Sample	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	be assessed if sa	mples are reta	ined longer than 1 chive For	month) Months
I, III, IV, Other (specify)					Special	Special Instructions/QC Requirements	ements.			
Empty Kit Relinquished by:	П	Date:		П	Time.		Method of Shipment	Shipment		
Reinquished by () () Small	S 23 W			Company		Received by		Date/Time		Company
Reinquished by	Dale/Time			Company	Rece	Received by		Date/Time		Company

🔆 eurofins

Chain of Custody Record

Phone: 716-691-2600 Fax: 716-691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

Eurofins Buffalo

Special Instructions/Note: N · None
O · AsNaO2
P · Na2O4S
Q · Na2O4S
Q · Na2S2O3
R · Na2S2O3
S · H2SO4
T · TSP Dodec
U · Acetone pH 4-5 Months F San Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Quisposal By Lab Archive For Mon 480-173653-37500.1 一年の一件の 11-80 reservation Codes: Page 1 of 2 I - Ice J - DI Water K - EDTA 480-198237 Chain of Custody Total Number of containers SM4500 SZ F - Sulfide 2540C_Calcd - Filterable Residue (180 C) lethod of Shipment X 2210B - Blochemical Oxygen Demand X ATSTA - NY Part 360 Expanded Herbicides State of Origin X Analysis Requested nodisə əinsgiO istoT - A0800 Cooler Temperature(s) °C and Other Remarks 8260C - (MOD) Volatiles Special Instructions/QC Requirements \$20.4_NP - Total Recoverable Phenolics y M Chos X 6010C, 6020A, 7470A, SM2340B Lab PM. VanDette, Ryan T E-Maii Ryan VanDette@et eurofinsus com X A.OTA ,S.T&E ,T.O&E 300.0_28D - Br/CI/SO4 X 8270D - (MOD) NY Part 360 Expanded Semivolatiles Received by 8081B - (MOD) Pesticides X X 8082A - (MOD) PCBs Time Field Filtered Sample (Yes or No) BTeTissue, ArrAir Company Preservation Code: Water Matrix Water Company Type (C=comp, G=grab) Radiological Sample 9 Compliance Project: A Yes A No Porchase Order not required SHIMA Sample HIN Date Unknown TAT Requested (days): Due Date Requested: 7 Sample Date Stalline S 53 Project Name. Cattaraugus County/ Event Desc: Farwell Leachate Expanded M48003171 1 Date/Time Poison B 209 Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Flammable Possible Hazard Identification Empty Kit Relinquished by: Custody Seals Intact. Client Information Sample Identification amkimes@cattco org A Yes A No Cattaraugus County Non-Hazard 8810 Route 242 elinquished by Austin Kimes TRIP BLANK yd baysing elinguished by State, Zip: NY, 14755 ittle Valley New York

Chain of Custody Record

Phone: 716-691-2600 Fax: 716-691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

Eurofins Buffalo

N - None
0 - AsNaO2
P - Na2O4S
Q - Na2SO3
R + Na2SO3
S - H2SO4
T - TSP Dodecahydrate Special Instructions/Note: other (specify) U - Acetone V - MCAA W - pH 4-5 Months Company Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon 480-173653-37500.2 Preservation Codes A - HCL
B - NaOH
C - Zn Acetale
D - Nitre Acid
F - MeOH
G - Amchlor
H - Ascorbic Acid Page: Page 2 of 2 Job# I - Ice J - Di Water K - EDTA L - EDA Total Number of containers Date/Time Method of Shipment Carrier Tracking No(s) State of Origin Analysis Requested Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements E-Mail Ryan. VanDette@et. eurofinsus. com × 310.2 - Alkalinity, Total X X 21208, 353.2, 353.2 Nitrite, Nitrate_Calc Received by Received by Lab PM VanDette, Ryan T X FieldSampling - (MOD) Local Method (oh to seV) (NSM/SM mother Time: Sompany Of the Company TxTissue, A=Air Preservation Code: Water Matrix Water Company Company Radiological Type (C=comp, G=grab) Sample 0 Compliance Project: A Yes A No Purchase Order not required 1430 Sample NA/MA Date Unknown TAT Requested (days): Due Date Requested: Sample Date 5/13/12 8 Project Name
Cattaraugus County/ Event Desc: Farwell Leachate Expanded M 48003171
Site. 8660661 Date/Time Poison B Skin Imtant Deliverable Requested: 1, II, III, IV, Other (specify) Custody Seals Intact: Custody Seal No. Non-Hazard Flammable Possible Hazard Identification Empty Kit Relinquished by Client Information Sample Identification amkimes@cattco.org Cattaraugus County 8810 Route 242 Austin Kimes linquished by Little Valley TRIP BLANK slinguished by yd baysinbu State, Zip NY, 14755 **New York**



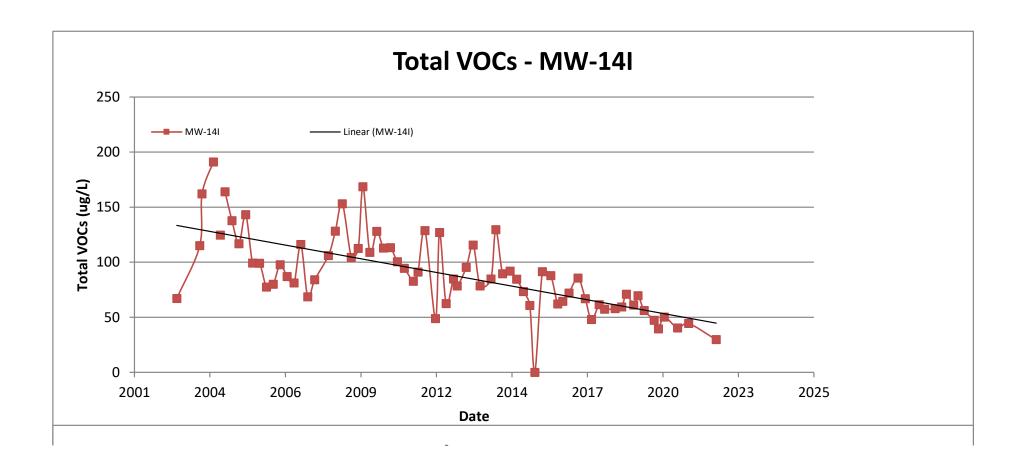


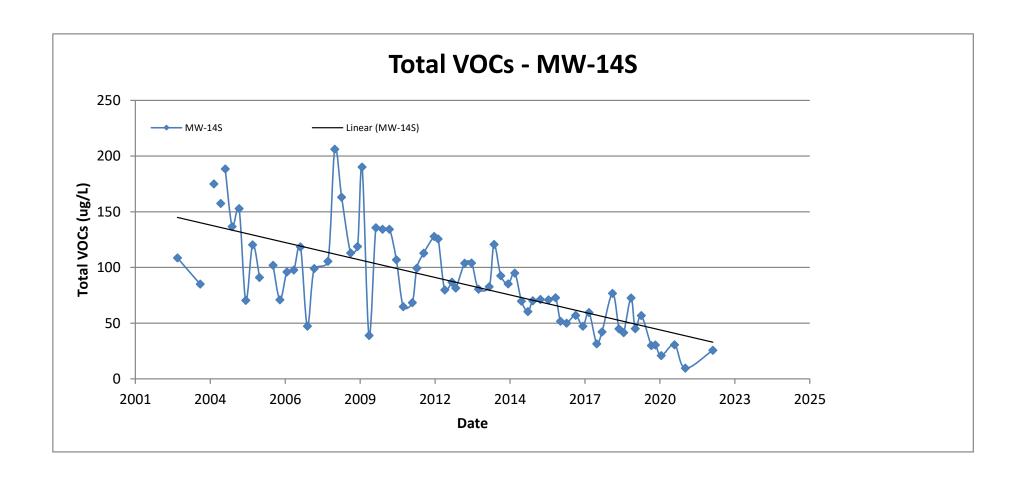


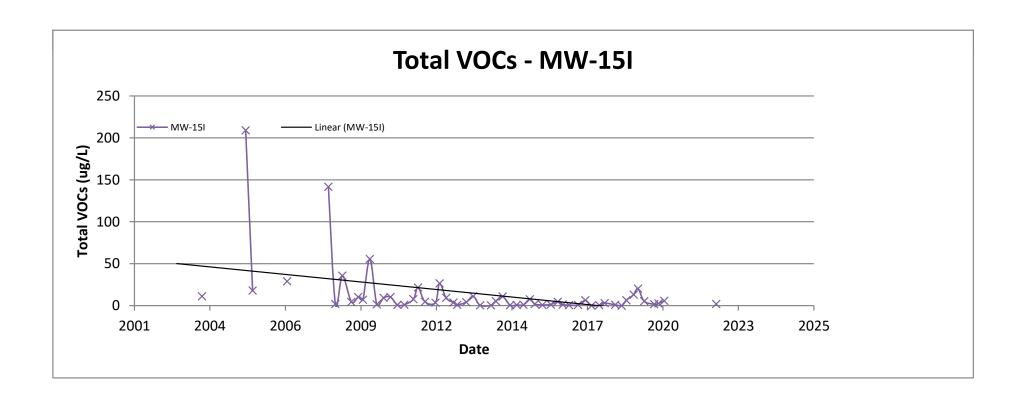


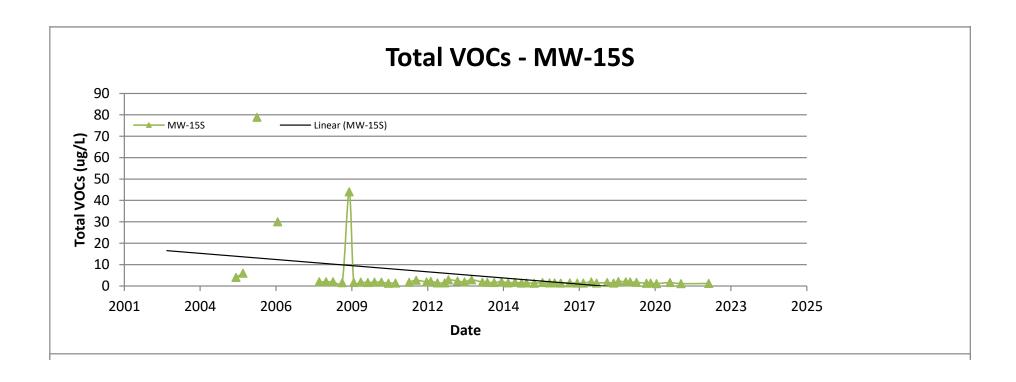
APPENDIX G – TOTAL VOC GRAPHS

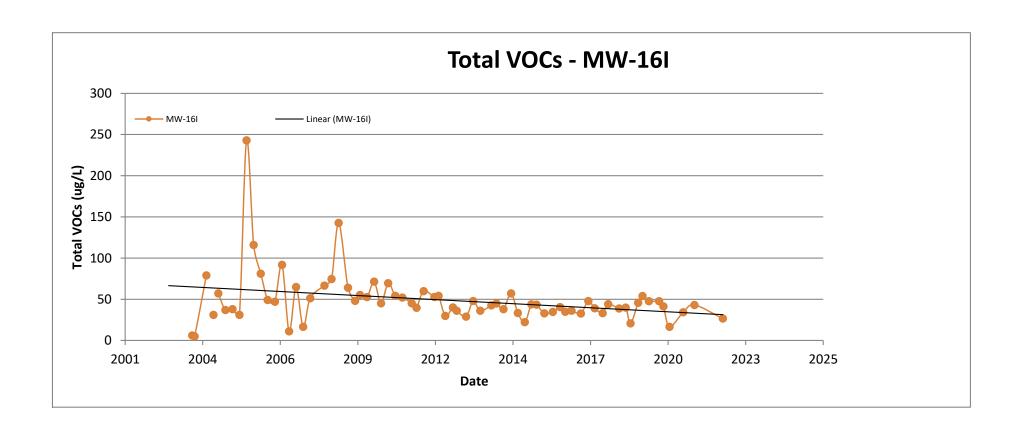


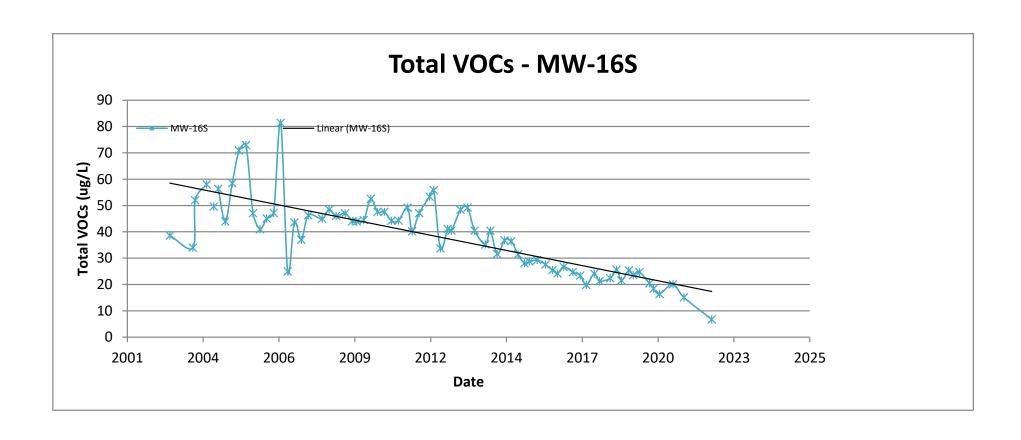


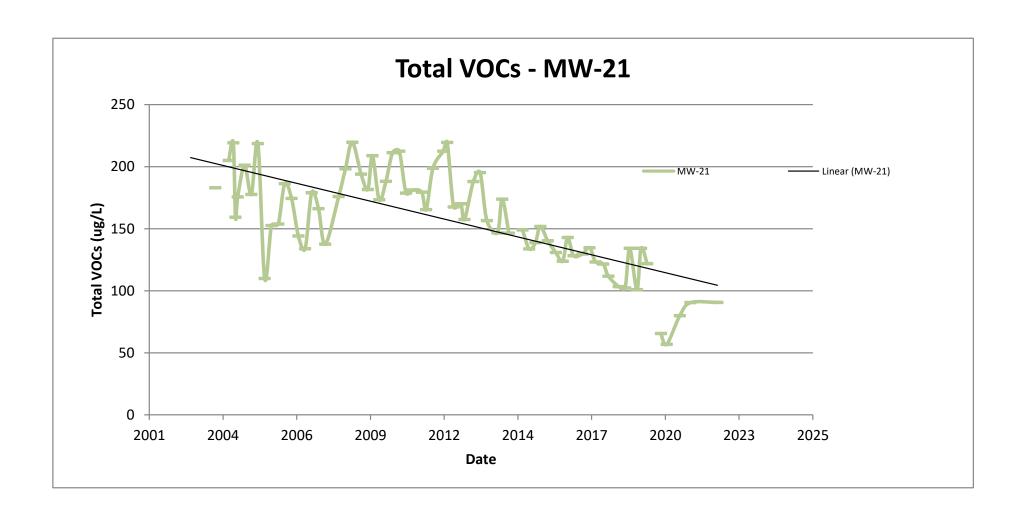


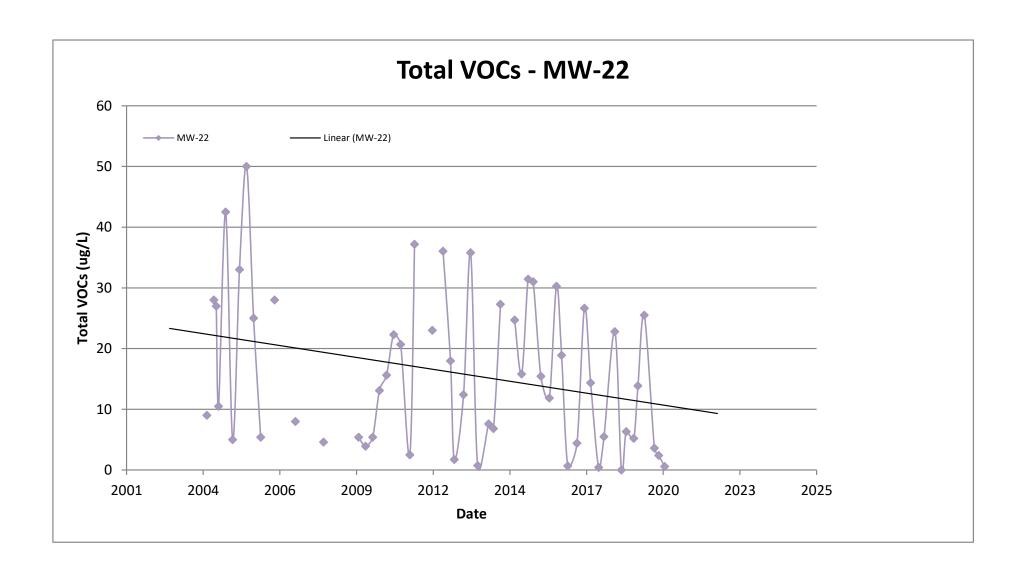












APPENDIX H - POST CLOSURE MONTHLY INSPECTION FORMS



DATE OF INSPECTION	4/28/22	
INSPECTOR (PRINT)	Austin Kimes	
INSPECTOR (SIGNATURE)	AXZ	Ares

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer, Groundhogs
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	Slight odor around vents
Areas of settling	None

B. Waterways and Ditches	of the American American Parlament
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

Monitoring Wells (well casing, cap, and locks in place and in good condition)		
All wells	Good Condition	

D. Gas Venting Sy.	stem (vent screens in place, no damage to vent risers and return bends)
#10 vent	Needs repaired (cracked elbow)

. Access Control			
Gates and locks operable	Yes	geneleues Pilmis	
Access road condition	Good		
Access is restricted	Yes	A Clustic 1	
		and dine	Table () June 1948
ction Required:			
repair vent #10_			
State Van Burger		and I	- noticité la con-
ollow UpCorrective Action	n Taken:		
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ollow UpCorrective Action Vent parts on hand			estati i suo sytures test paintini in tin paintini in tin
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			exhalic transqueres bet necessaries to an amount of the control of
Vent parts on hand			
Vent parts on hand			

DATE OF INSPECTION	5/24/22
INSPECTOR (PRINT)	Austin Kimes
INSPECTOR (SIGNATURE)	Atro

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer, Groundhogs
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	Slight odor around vents
Areas of settling	None

B. Waterways and Ditches	
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

C. Monitoring Wells (well casing, cap, and locks in place and in good condition)		
All wells	Good Condition	

	stem (vent screens in place, no damage to vent risers and return bends)
#10 vent	Needs repaired (cracked elbow)

Gates and locks operable	Yes	
Access road condition	Good	
Access is restricted	Yes	in tra
	Parish Harry Treated	
Action Required:		
repair vent #10_		
		Part P
	Andrew Committee of the	
		10.410
	Arrest Arrest to per Plate 1	Limit
Follow UpCorrective Action		
Follow UpCorrective Action Vent parts on hand		Idaniela remus la remus la re
		rativist of the second
Vent parts on hand		

DATE OF INSPECTION	6/10/22
INSPECTOR (PRINT)	Austin Kimes
INSPECTOR (SIGNATURE)	LAKO

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer, Groundhogs
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	Slight odor around vents
Areas of settling	None

B. Waterways and Ditches	
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

C. Monitoring Wells (well casing, cap, and locks in place and in good condition)		
All wells	Good Condition	

D. Gas Venting Sy	stem (vent screens in place, no damage to vent risers and return bends)
#10 vent	Needs repaired (cracked elbow)

E. Access Control		
Gates and locks operable	Yes	
Access road condition	Good	
Access is restricted	Yes	
		(THEAT BOILDING)
Action Required:		
repair vent #10_		
		TOPICS IN SMITE OF
	The Three Name	salellas manele esser
		policie de la mejo.
	Vestanija in javiše in d	
		wine emigrapes ()
Follow UpCorrective Action	n Taken:	
Vent parts on hand		melaura la langid
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		Allem and Market and Albert
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	not idans a use.	
	solding occ	

DATE OF INSPECTION	7/15/22
INSPECTOR (PRINT)	Austin Kimes
INSPECTOR (SIGNATURE)	atto

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer, Groundhogs
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	Slight odor around vents
Areas of settling	None

B. Waterways and Ditches	
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

All wells	Good Condition	

D. Gas Venting System (vent screens in place, no damage to vent risers and return bends)	
#10 vent	Needs repaired (cracked elbow)

E. Access Control	S THE STATE OF THE	
Gates and locks operable	Yes	
Access road condition	Good	
Access is restricted	Yes	
		Omay Britishey
Action Required:		
repair vent #10_		
		south lighted to
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	Sheeps (imprime Senter Little)	with plate many
Follow UpCorrective Action	n Taken:	
	Section 1	
Vent parts on hand		
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		The state of the s
	Draw of severals are made relations	
(diminutes the critical	Draw of section as souly observed about	

DATE OF INSPECTION	8/29/22
INSPECTOR (PRINT)	Austin Kimes
INSPECTOR (SIGNATURE)	atro

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer, Groundhogs
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	Slight odor around vents
Areas of settling	None

B. Waterways and Ditches	
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

C. Monitoring Wells (well casing, cap, and locks in place and in good condition)	
Good Condition	

	stem (vent screens in place, no damage to vent risers and return bends)
#10 vent	Needs repaired (cracked elbow)

E. Access Control	
Gates and locks operable	Yes
Access road condition	Good
Access is restricted	Yes
	Carried March
action Required:	
repair vent #10_	
seep remediation	on
	The second state of the se
	property and a second s
ollow UpCorrective Action	
ollow UpCorrective Action Vent parts on hand	

DATE OF INSPECTION	9/14/22
INSPECTOR (PRINT)	Austin Kimes
INSPECTOR (SIGNATURE)	Ath

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer, Groundhogs, flies
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	Slight odor around vents
Areas of settling	None

B. Waterways and Ditches	
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

C. Monitoring Wells (well casing, cap, and locks in place and in good condition)		
All wells	Good Condition	

#10 vent	Needs repaired (cracked elbow)

E. Access Control		
Gates and locks operable	Yes	
Access road condition	Good	
Access is restricted	Yes	
	Annual messes	
Action Required:		
repair vent #10_		
seep remediati	on	vome lighted -
	yali washingay yang	ared a corner to ingle
		THE RESERVE OF THE PARTY OF THE
1 - 1		
Follow UpCorrective Action Vent parts on hand		
Vent parts on hand		

DATE OF INSPECTION	10/19/22
INSPECTOR (PRINT)	Austin Kimes
INSPECTOR (SIGNATURE)	Ath

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer, Groundhogs, flies
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	Slight odor around vents
Areas of settling	None

B. Waterways and Ditches	
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

C. Monitoring Wells (well casing, cap, and locks in place and in good condition)	
All wells	Good Condition

D. Gas Venting Sy.	stem (vent screens in place, no damage to vent risers and return bends)
#10 vent	Repaired

Gates and locks operable	Yes	
Access road condition	Good	
Access is restricted	Yes	MINE DESCRIPTION OF THE
Access is restricted	The state of	County of the Control
ction Required:		
seep remediati	on	apped (med)
		molé agree la en
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	takayi dayasa sida	
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ollow UpCorrective Action #10 Vent fixed 10/		
•		
#10 Vent fixed 10/	12/22	
#10 Vent fixed 10/	12/22	
	12/22	
#10 Vent fixed 10/	12/22	

DATE OF INSPECTION	11-10-22
INSPECTOR (PRINT)	James C. Manzella
INSPECTOR (SIGNATURE)	Jane (. Maylla

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	None
Signs of erosion	None
Signs of stressed vegetation	Only around the seep discussed below
Leachate seeps	An approximately 4-ft x 10-ft area of stressed vegetation/leachate seep was identified at the toe of slope in the southwest corner of Phase II portions of the landfill or approximately 300-ft north of the northwest corner of the parking lot
Detectable odor	None
Areas of settling	None

B. Waterways and Ditches	
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

C. Monitoring Wells (well casing, cap, and locks in place and in good condition)	
All wells	All locks, casings, and caps are in place and in good condition.

D. Gas Venting System (vent screens in place, no damage to vent risers and return bends)	
All vents	Vent screens are in place, no damage to vent risers and/or return bends

E. Access Control	
Gates and locks operable	Yes
Access road condition	Good
Access is restricted	Yes, through thorny dense shrubs and gates and buildings are locked

Action Required:

• Address leachate seep in southwest corner of Phase II

Follow Up--Corrective Action Taken:

• The County is currently working with a consultant who is evaluating enhancements to the existing cap to reduce leachate generation on-site. The seep will be addressed in conjunction with any cap enhancements.

DATE OF INSPECTION	12/28/22	
INSPECTOR (PRINT)	Austin Kimes	
INSPECTOR (SIGNATURE)	attes	Thermore grave

A. Landfill Cover	
Visible Refuse	None
Signs of vector activity	Deer
Signs of erosion	None
Signs of stressed vegetation	None
Leachate seeps	Moderate at south end
Detectable odor	None
Areas of settling	None

B. Waterways and Ditches	Constant Assets Assets Constant of the Constan
Signs of erosion	None
Blockage of drainage pathway	None
Culverts clear of obstructions	Yes
Ponded water areas	None

D. Gas Venting Sy	stem (vent screens in place, no damage to vent risers and return bends)
All vents	Good Condition

Gates and locks operable	Yes		
	Good		
Access road condition	Yes		
Access is restricted	res		The state of the s
lation Boquirad			
Action Required:			
trii	m around vents		
20007	Bernseley as seek to make the case of the		Samuel Company
seep remediati	on		
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Joseph Landon Land			

APPENDIX I - MONTHLY LEACHATE HAULING LOGS



Month of JAN 2022

	1	Olean WWTP	190000000	lamanca VWTP		mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1	Z	15,000					FARWELL -> OLN
2						9	71,000
3	1	7500					FARWELL - TOLN
4							1
5	2	15,000					PARWELL > OLD
6							
7	1	7500				(9)	FARWELL->OW
8							
9							
10	2	15000					FARWELL-DOWN
11							
12						***************************************	
13	1	7500					FARWELL->OCN
14	1	7500					FARWELL -> OW
15							100
16							
17		7500					FARWELL-JOEN
18							
19							
20							
21	7	7500					C42 1
22	2	1300					FARWELL-SOLN
24							
25	1	7560					FARWELL-SOLV
26		7300					1111-2000
27	-						
28							
29	i	7500					FARWELL -> OLN
30		1500					
31		7500					FARWELL->OIN
Totals	16	120,000		- Transfer to			FARWELL -> OLN

Month of Feb 2022

		Olean WWTP		lamanca WWTP		mestown WWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1							
2				N.			
3	1	7500					FARWELL-> OLN
4							
5							
6							
7	ı	7500					EBRUELL->OLN
8							
9	1	7500					FARWELL SOLN
10							
11	/	7500					FARWELL-SOLN
12							
13							
14	_ l	7500					FARWELL-DOEN
15		7560					FARWELL > OCN
16	.71						
17							English and
18	-,-				7_	15800	FARWELL - JAMES
19					-		
20					-		72 00 7
21	2	12500	-		-		BRWELL -> OLD
22	3	73 (700)					Gorales
24	5	22,500					FARWELL->OLN
25	ì	7500				***	ALWELL - OLN
26		1500					THE PLE TOUR
27	1	7500		***			FARWELL - JOLN
28	1	7500		Mir man			FARWELL - POLN
29		1300					1 110 000 7 0010
30							
31							
Totals	14	105,000			2	15000	

Month of March 2022

		Olean VWTP		alamanca WWTP	100	mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1					- Zonus		
2	2	15000					FAR->OLN
3			E-1				
4			2	15000		1 34 5 15 5	
5				*			
6	2	15000					
7		7216					
8	Z	15000					FAR TOLN
9							
10							,
11	2	15000					For > OLN
12							
13		7500					For >OLN
14		7500					Far > OLN
15		1.					1,11
16	2	15,000					Far > OLN
17		200					T 1 6 4)
18	1	7300					For + OLN,
19		7,500					Far > OLN
20	2	15,060					FOR 7 OLN
21		7,500					For YOLN
22							
24	1	7500					For > OLN
25	1	1300					1-1 000
26				4			
27		••	1	7,500			Far > Sal
28				1,500			
29		7500					Far >OLN
30		1,300					100
31	2	15,000					Far > OLN
otals	zl	157 5700	7	22,500			

Month of APRIL 2022

	l v	Olean WWTP	10.00	lamanca WWTP	100	mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1	1	7,500			201145		For -y OLN
2	'						1000
3							
4	2	15,000					For - OhN
5		1					7
6							
7	2	15,000					Far->OWN
8	1	7,500					Far > OLN
9	#	750					FIRSOLA
10	(49)	22007/	500				FW->OLN
11							
12	2	15,000					For > OLN
13							
14	1	7,500					Far > OLN
15		7,500					Far -> OLN
16							
17							
18	2	15,000					Far - OLN
19				410			
20	1	7,500					Far > OLN
21							,
22	2	15,000					Far > OLN
23		5					
24		7,500					For >OLN For >OLN
25		0					For -> OLN
26		7,500					
27	\$	5)					
28		7,500					Far > OLN Far > OLN
29	1	7,500					For > OLN
30							
31							
otals	20	150,000					

Month of May 2022

	V	Olean VWTP	1	alamanca WWTP		mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1			Louis		Loads		
2	1	7,500					For = 01.01
3		7,500					For > OLN
4		-,,					, , , , , , , , , , , , , , , , , , , ,
5							3000
6			1	7,500			Far -> Sal
7				1,5			
8							
9		8,500					Far - OLN 8,500
10							
11							
12							
13		7500		7,500			Far + Sal
14							
15		(-21)					,
16	1	7,500					Far > OLN
17							
18							
19		-1-					
20	2	15,000					Far -> OLA
21							
22					-		
23							
24		T					
25	7	12 12	,	7 ~			T
26		7,500	1	7,500			Far + OW Far > 59
27						-	
28							
29							
30		7	6	71			
31	1	7,500 68,500	1	7,500	-	d	
Totals	8	60,000	4	30,000	10	Ø	

Month of June 2022

		Olean VWTP		lamanca WWTP		mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1					Donas		
2							
3							
4							
5							
6							
7	2	15,000					For > OLN
8							
9							
10							
11							
12							
13							
14	2	15,000					Far 7 OLN
15							
16							
17							
18							
19							
20							
21	2		-				
22						<u> </u>	
23			-				
24 25							
26 27							
28	2	15,000					Far > OLN
29	0	13,000					1-17 / 01/1
30							
31							
otals	6	45,000					

Month of July 2022

		Olean VWTP		lamanca VWTP	3	mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1					2011.00		
2							
3							
4				2011/40			
5							
6							
7	1	7,500					Far > OLN
8							
9							
10							
11							
12							
13							
14							
15	2	15,000					For - OUN
16							
17							
18							
19							
20							
21							
22					-		
23							
24			-				
25	N N	Trax			-		Far 7 OLN
26		7,500					Las OVIN
27							
28							
29							
30							
Totals	4	30,000					

Month of August 2022

	V	Olean VWTP	1	lamanca WWTP	V	mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1							
2							
3							
4							
5							
6							
7							
8							
9	2	15,000					Far -> OLN
10							
11							
12							
13							
14							
15				art -			
16							
17							
18					-		
19							
20							
21							
22		7 50-					1 × 0 1/
23		7,500					Far 7 OLN
24	-						
25					-		
26							
27							
28							
29							
30							
31	0	71 570					
Totals	3	ZZ, 500					

Month of September 2022

	7	Olean VWTP	Salamanca WWTP			mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1							
2							
3							
4							
5							
6	3	22,500					FAR -> OLN
7		•		A200			
8							
9							
10							
11							
12							,
13	2	7,500					Far 7 OLN Far 7 OLN
14		7,500					Fay 70WN
15							
16	2	15,000					FRY -> OLN
17							
18		-					
19							
20		7,500					Far - OLA
21							
22							
23							
24		5 F14					- 211
25	1	7,500					Far >OLN
26		00 00					F
27	3	22,500			-		For - OLN
28	2	15,000					Far > OLN
29	1	7,500					Far -> OLN
30							
31			-				1
otals	16	170,000					

Month of October 2022

		Olean WWTP		lamanca VWTP		mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1					200.00		
2							
3	2	15,000					For > OLN
4							
5				Name of the same o			
6							
7	1	7,500		Mark Transfer City			Far 7 OLN
8							
9							
10							
11							
12	_						17
13	3	15,000					Far > OLN
14		7,500		A			Far > OLN
15							
16	0	16					Tour Al Al
17	2	15,000					Far > OLN
18					-		
19	1	7,500					Far > OhN
20	1	1,500				- Version -	100 -> 000
22	-						
23							
24							
25							
26	2	15,000					FORTOLN
27	-	19,000					
28							
29							
30							
31							
Totals	11	82,500					

Month of November 2022

	1.	Olean WWTP	0.000	lamanca VWTP		mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1	2000		Loads		Loads		
2							
3				- Oil			
4							
5							
6							
7							
8	2	15,000					For > OLN
9							
10				W			
11							
12	2	15,000					Far > OLN
13	1	7,500					Far > OLN
14	2	15,000					Far -> OLN
15							
16	2	15,000					FOR 7 OUW
17							
18							±
19	2	15,000		· · · · · · · · · · · · · · · · · · ·			Far -> OLW
20							
21	2	12					= 011
23	~	15,000					For > OLN
24							
25	3	22,500					Far -> OLN
26		00,000					100
27	2	15,000					FAY -> OLAY
28		7,000					
29	2	15,000					Far 7 OLN,
30	2	15,000					For > OhM
31		1)1000					
Totals	22	165,000					

Month of December 2022

		Olean VWTP		lamanca VWTP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mestown VWTP	
Day	# of Loads	Gallons	# of Loads	Gallons	# of Loads	Gallons	Comments
1							
2	2	15,000					For > OLN
3		7 500					Far + OLN
4	2	15,000					For -> OLN For -> OLN For -> OLN
5	1	7,500					FOR -> OLAY
6						ritina kirali	
7	2	15,000					For >OLN
8		, , ,					
9							
10	2	15,000					For > OLN
11				and we have a second of the second			
12	2	15,000					Far -> OUN
13							
14							-
15	1	7,500					FONDOLM
16	l l	7,500 7,500 7,500					
17		7,500					For -> OLN
18	2	14					= = 01 01
19	2	15,000					Far 7 OLN
20	1	2 120			-		To 1 = 01 1)
21	- A	7,500					Far - OLN
22	0	15 000					
24	2	15,000					
25							
26	2	15 mx					Far -> O/ M/
27		15,000 7,500				9.00	Far -> OLN Far -> OLN
28		1,500					000
29		7,500					Far 70LN
30	1	1,,00					
31	2	15.000		-			Far -> 01-N
Totals	26	15,000					

APPENDIX J - CATTARAUGUS COUNTY UPDATED LEACHATE HAULING PROTOCOLS



CATTARAUGUS COUNTY

DEPARTMENT OF PUBLIC WORKS

Development – Progress – Workmanship

Kathleen M. Ellis, Commissioner Michael J. Prinino, Deputy Commissioner William Fox, PE, Director of Engineering



8810 Route 242, Jack Ellis Drive Little Valley, New York 14755 Phone (716) 938 9121 | Fax (716) 938 2752

LEACHATE HAULING PROTOCOL FARWELL

Leachate Hauling Thresholds

1. High Alarm: 88 true inches / 15,138 gallons

High/High Alarm: 98 true inches / 16,938 gallons

Callout List

- 1. In House/In Title Hauling Supervisor Salamanca
- 2. In House/In Title CDLA Hauler
 - a. Mike Perrington Little Valley
- 3. In House/In Title CDL A Hauler
 - a. Bob McKraken Salamanca
 - b. Eric Moshier Salamanca
- 4. In House/Out of title Refuse Maintenance Mechanic, SR TSO
 - a. Joe Baker Maint Mech Little Valley
 - b. Chad Brewer SR TSO Salamanca
 - c. Ken Quinn SR TSO Portville
- 5. Volunteer Hauling List1
 - a. Class A License Holder
 - b. Tanker Endorsement
 - c. Tanker Hauling Experience
 - d. DPW Leachate Hauling Trained

WWTP Contact Information

Olean WWTP 716-376-5694

Contact: Jeremy Meerdink Limit: 22,500 gallons/24hrs

Emergency Dispatch: 716-376-5677

Jamestown WWTP 716-450-2334

Contact: Keith Vanstrom Limit: 30,000 gallons/24hrs

Salamanca WWTP 716-945-1691

Contact: Jeffrey Shurilla Limit: 15,000 gallons/24hrs

Procedure - High Alarm

- 1. Upon receipt of a high alarm, the Hauling Supervisor will utilize the Callout List and assign leachate hauling duty to the appropriate driver. A sufficient amount of leachate must be removed as to clear the high alarm.
- 2. The assigned hauler will utilize the WWTP Listing to identify the appropriate facility for leachate disposal.

Procedure - High /High Alarm

- 1. High High Alarms are indicative of not removing leachate promptly after a high alarm and are to be avoided.
- 2. Upon receipt of a high/high alarm the Hauling Supervisor will utilize the Callout List and assign leachate hauling duty to the appropriate driver. The Hauling Supervisor shall activate the callout list and affect an immediate response to the pump station to load a tanker. Leachate volumes must decrease within 4 hours of receipt of a high/high alarms (leachate volume measured using the RAFA).2

Monitoring

The Hauling Supervisor will monitor leachate levels so that scheduling can be done for moderate tank levels. If afternoon tank levels suggest an alarm is inevitable, the Hauling Supervisor will force overtime to reduce tank levels to avoid an alarm.

Notification

The Waste Management Coordinator is to be notified of all call outs to Refuse personnel. Any callout to out of title personnel shall not cause a Transfer Station to be left uncovered or understaffed.

¹ See Attached listing

² Utilizing a 400 gallons / hour fill rate

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Little Valley, New York 14755
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Leachate Hauling Drivers

Name	Position	Seniority Date	Primary Location	Phone Number
Crowley, Jeremy	Class A	11/19/2002	Allegany Hwy Barn	716-307-6629
Lyons, Brock	Class B	3/19/2012	Franklinville Hwy Barn	716-307-5102
Morales-Healy, Mykel	Class A	7/18/2016	Franklinville Hwy Barn	716-307-4020
Poitras, Timothy	Class A	5/27/2008	Highway Maintenance	716-499-8225
Shuster, Edward	Class A	1/20/2009	West Valley Hwy Barn	716-244-2367
Smith, Benjamin	Class B	12/27/2010	West Valley Hwy Barn	716-472-8267