

Prepared for:
Village of Wellsville
Department of Public Works
200 Bolivar Road
Wellsville, NY 14895

PERIODIC REVIEW REPORT

February 15, 2022 to February 15, 2023

Wellsville/Andover Landfill Site
Site Number 9-02-004
Allegany County, New York

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1.0 OVERVIEW

1.1 Introduction

This report presents operations, maintenance and monitoring activities associated with the closed Wellsville/Andover Landfill (Site) for the period of February 15, 2022 to February 15, 2023 and is being submitted as part of the New York State Department of Environmental Conservation (NYSDEC) Periodic Review Report (PRR) process. The PRR certification is included as Appendix A of this report. This report was initially submitted on March 16, 2023. On June 15, 2023 NYSDEC provided comments and request for revision. This revised report is intended to address NYSDEC comments.

The Site is located on Snyder Hill Road (previously known as Gorman Road) in Wellsville and Andover townships, Allegany County, New York (Figure 1). Operation, maintenance and monitoring requirements for this Site are detailed in *Operation and Maintenance Manual for the Wellsville/Andover Landfill Site Number 9-02-004 Allegany County, New York*, dated November 1997 (O&M Plan), prepared by Ecology and Environment Engineering, P.C. (E&E) with subsequent revisions. Revisions to the O&M Plan have been approved by NYSDEC and the current O&M requirements are summarized in Section 2 of this report (hereafter referred to as approved O&M Plan) with details included in Appendix B.

1.2 Site Background

The Wellsville/Andover Landfill was operated by the Village of Wellsville from 1964 to 1983, accepting both municipal and industrial waste. NYSDEC added the Site to the New York State Superfund with a 1994 Record of Decision (ROD) requiring waste consolidation and capping as the remedial action. Remedial construction commenced in April 1996. Waste from the northwest and northeast fill areas was removed and consolidated on the south/south-central fill area. Following consolidation, the fill was compacted and capped with a 19-acre cover system. The cover system incorporates a passive landfill gas (LFG) venting system, a leachate collection and storage system and groundwater cut-off trench on the north and east sides. Remedial construction was completed in September 1997.

The leachate collection system gravity drains to a Leachate Sump (LS-1), from which leachate is pumped into two 15,000 gallon underground storage tanks. The Village of Wellsville transports water from the storage tanks to the Village of Wellsville Publicly Owned Treatment Works (POTW) for treatment. The Village of Wellsville POTW operates under a SPDES permit and the Village has a waste hauler permit to transport the leachate to the POTW.

The groundwater cutoff trench is intended to capture groundwater from the north and east landfill perimeters. The north side collection trench drains to Manhole 32 (MH-32) located at the northwest corner of the landfill, while the east side collection trench drains to Manhole 33 (MH-33) at the southeast corner of the landfill. Both MH-32 and MH-33 are piped to drain either to the leachate collection system or to the landfill perimeter surface water drainage channels. To date, water in MH-32 and MH-33 has been drained to the leachate collection system. The pipes from the manholes to the drainage channel are closed with removable plugs.

1.3 Summary of 2022 Monitoring, Inspection and Maintenance Activities

This section provides an overview of the monitoring, inspection and maintenance activities completed in 2022.

The required 2022 monitoring was completed by On-Site Geological Services, D.P.C. (On-Site) in accordance with the current O&M Plan. Monitoring is primarily conducted in an annual fall event consisting of: 1) sampling groundwater, leachate and four residential water supplies; and 2) air quality monitoring at landfill gas vents, lateral cleanouts, manholes and landfill perimeter. Spring sampling of surface water and one residential water supply is also conducted. The fall 2022 groundwater monitoring event included Emerging Contaminant (EC) sampling and analysis of select monitoring wells as directed current O&M Plan. Field sampling forms are included in Appendix C. Laboratory analysis was conducted by ALS Environmental (ALS), located in Rochester, New York. The 2022 monitoring shows consistent results as compared to historic monitoring indicating the site remedy is operating as designed. Details of these monitoring activities are provided in Section 3 through 7 and the 2022 laboratory analytical reports are included in Appendix F.

Quarterly inspections are conducted and documented on Inspection and Maintenance Checklist by Village of Wellsville personnel (Appendix D). 2022 Quarterly inspections resulted with no unresolved problems. 2022 maintenance activities included the following:

- annual mowing of landfill cap vegetation;
- leachate management and disposal;
- leachate sump pump 2 replacement;
- Leachate laterals pressure cleaned and vacuumed; and
- WAL-19 residential water treatment unit maintenance.

Details of the maintenance activities are provided in Section 8.

2.0 MONITORING, INSPECTION AND MAINTENANCE REQUIREMENTS

This section outlines monitoring, inspection and maintenance requirements specified by the approved O&M Plan.

2.1 Monitoring Requirements

The analytical program for the site is based on the requirements of Title 6 NYCRR Subdivision 360-2.11(c) and 360-2.17(f). Previous revisions to the monitoring program were approved in May 2009. The most recent revisions are provided in a May 19, 2021 and April 26, 2022 letters from the NYSDEC included in Appendix B, which took effect starting spring 2022. These updates include conducting annual groundwater sampling each fall and removing monitoring wells MW-3S, MW-15S and MW-16S from the monitoring program. Additionally, the NYSDEC assessed the Emergent Contaminant sampling results detailed within the 2021-2022 PRR requesting that monitoring wells CW-3B, CW-4A, CW-4B and MW-17S to be sampled annually for Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane and MW-5D annually for 1,4-Dioxane.

Table 2-1 presents the currently approved monitoring program, with the current analyte list presented in Table 2-2. Sampling locations are presented in Figure 2. Monitoring is conducted primarily annually and includes testing groundwater, surface water, leachate, air quality and four residential water supplies. Details of the approved monitoring requirements are provided below.

- Each fall, 13 monitoring wells are sampled for field parameters, VOCs and metals listed on Table 2-2. Additionally CW-3B, CW-4A, CW-4B and MW-17S are sampled annually for PFAS and 1,4-Dioxane, and MW-5D for 1,4-Dioxane. Surface water location SWS-1, Groundwater cut-off system locations MH-32 and MW-33, and leachate sump LS-1 are sampled annually for the parameters listed on Table 2-2. Due to dry conditions often preventing surface water sampling in the fall, starting in 2016, surface water sampling is generally conducted in spring.
- Static groundwater levels are required to be measured in the monitoring wells and piezometers located on and around the landfill cap as part of each fall monitoring event. Groundwater elevations are used to construct potentiometric maps. Table 2-3 provides a tabular listing of the current year's static water elevations along with well construction information.
- Air quality monitoring is conducted annually to check for the presences of landfill gas. Landfill cap vents, leachate collection system cleanouts and landfill perimeter air monitoring is conducted each fall for VOCs, Lower Explosive Level (LEL) and Oxygen (O₂). Air quality monitoring locations are presented in Figure 7.

- Four residential water supplies, designated as WAL-1, WAL-2, WAL-5 and WAL-19 are included in the monitoring program (Figure 2). WAL-1, WAL-2 and WAL-5 require annual monitoring each fall. WAL-1 was unoccupied for several years until 2016, when it was added back into the monitoring program as a generally full-time occupied residence. WAL-2 is a minimally occupied hunting camp. WAL-5 residence is unoccupied and has not been monitored since 2014. WAL-19 is a generally full-time occupied residence adjacent to the southwest side of the landfill. The Village of Wellsville continues to provide contracted maintenance of a water filtration system at WAL-19. The filter system includes a particulate filter and two granulated activated carbon (GAC) filters plumbed in series. This water supply is sampled semi-annually (spring and fall). Water samples are collected for VOCs analysis before the first GAC filter (sample location: WAL-19 Pre), between the GAC filters (WAL-19 Inter) and after the second GAC filter (WAL-19 Post).

2.2 Inspection and Maintenance Requirements

The inspection and maintenance requirements for the site are specified in the O&M Plan and include the following.

- Conduct quarterly inspections and maintenance (if required) of cover system, leachate collection and storage system, gas venting system, storm water system, groundwater monitoring system, and facility access system (i.e. access roads and gates). Quarterly Inspection and Maintenance Checklists are provided within the O&M Plan and are completed by Village of Wellsville Department of Public Works personnel.
- Annual mowing of the vegetative cover is performed by Village of Wellsville personnel.
- The Village of Wellsville is responsible for maintenance of a residential water treatment unit at residence WAL-19, located at 3914 Snyder Hill Road.

3.0 GROUNDWATER MONITORING RESULTS

Groundwater monitoring was conducted in fall 2022. The fall event is a Site wide monitoring event which includes sampling and analysis of 13 monitoring wells. Table 3-1 provides last three years of groundwater analytical results and includes NYSDEC Class GA Standard (TOGS 1.1.1), NYSDEC Class GA Guidance Value (TOGS 1.1.1) and NYSDOH Maximum Contaminant Level (MCL) exceedances listed in bold. Table 3-2 lists the last two years PFAS analytical results with NYSDOH MCL and NYSDEC Class GA Guidance Value (NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs) exceedances listed in bold. Monitoring well locations are presented in Figure 2. Field sampling forms are included in Appendix C. Concentration time trend plots for

parameters that most frequently exceed Class GA Standards for each monitoring well sampled during 2022 are presented in Appendix E.

3.1 **Fall Monitoring Event Results**

Groundwater samples were collected from the 13 monitoring wells scheduled for sampling during the fall 2022 monitoring event. A discussion of the analytical results is provided below.

Inorganic Compounds (metals)

Groundwater samples were analyzed for fifteen metals during the fall 2022 sampling event (Table 2-2). Iron, Manganese and Sodium exceeded Class GA standards in 2022 and are the metals that exceed Class GA Standards on a frequent basis. Concentration time trend plots for these three metals have been created to graphically present the most recent 10 years of monitoring data. These plots are presented in Appendix E for monitoring wells that have shown NYSDEC Class GA Standard exceedances of these metals during this time period. Monitoring wells CW-3A, CW-3B, CW-4A, CW-4B, MW-3D, MW-4D, MW-5D, MW-5S, MW-11S, MW-17D, MW-17S, MW-18D and MW-18S are included. These graphs illustrate generally stable Iron, Manganese and Sodium concentrations for the past 10 years. These three metals have been detected at various concentrations above standards at both upgradient and downgradient wells. Additionally in 2022, Magnesium is above NYSDEC Class GA Guidance Value at MW-11S and MW-17S. These detected metals are common soil constituents and regionally occur naturally at the concentrations detected in Site groundwater.

VOCs

Groundwater from each well sampled during the fall 2022 sampling event was analyzed for VOCs, which include 36 compounds (Table 2-2). Consistent with historic monitoring data, 2022 results show cDCE, TCE and Vinyl chloride exceeding Class GA Standards. cDCE, TCE and Vinyl chloride are the primary Site constituents of interest and commonly exceed the Class GA Standards. Therefore concentration time trend plots for these three VOCs have been created. The plots include data from 2013 through 2022 and are included in Appendix E for monitoring wells that have shown Class GA Standard exceedances for these compounds. These monitoring wells include CW-3A, CW-3B, MW-3D, MW-4D, MW-5D, MW-5S, MW-11S, MW-17S and MW-18S. A discussion of the VOC time trend graphs is provided below.

- Downgradient overburden well CW-3A TCE concentrations are generally stable or slightly decreasing, while cDCE and Vinyl chloride has been near or below detection limit the last 10 years.

- TCE at downgradient overburden well CW-3B has varied between 0.38 mg/L and 0.47 mg/L and has been primarily stable since 2013. cDCE concentrations have been stable at approximately 0.1 mg/L and Vinyl chloride has been non-detect.
- Upgradient bedrock well MW-3D has shown cDCE generally stable with minor variations between approximately 0.0019 mg/L and 0.013 mg/L over this 10 year monitoring period. The cDCE variations over time are likely associated with changes in groundwater levels but do not directly correlate with the measured groundwater elevations. TCE and Vinyl chloride are non-detect.
- Cross-gradient bedrock well MW-4D has shown cDCE and Vinyl chloride on a decreasing to stable trend, while TCE has been non-detect.
- Cross-gradient bedrock well MW-5D exhibits low-level detections of TCE and Vinyl chloride throughout this 10 year monitoring period. cDCE has been generally stable between approximately 0.083 mg/L and 0.98 mg/L with some expression of seasonality. NYSDEC has requested 1,1-Dichloroethene and Trans-1,2-Dichloroethene also be included on the MW-5D plot. The graph shows these two parameters at or near detection limits the last 10 years.
- Cross-gradient overburden well MW-5S exhibits generally stable cDCE, TCE and Vinyl chloride since 2013.
- Downgradient overburden well MW-11S has shown Vinyl chloride at near detection limits and cDCE has been stable at approximately 0.3 mg/L. TCE appears generally stable between 2.1 mg/L and 3.6 mg/L.
- Cross-gradient overburden well MW-17S shows cDCE concentrations with a slight decreasing trend starting in 2013. TCE and Vinyl chloride concentrations have been at or near detection limits.
- Cross-gradient overburden well MW-18S has generally exhibited cDCE, TCE and Vinyl Chloride concentration below or near detection limits during the last 10 years with cDCE and Vinyl Chloride continuing this trend in 2022. TCE was detected at 0.021 mg/L in 2022, which represents a moderate increase. However the 2022 TCE concentration is generally below concentrations observed during the time period of 2000 through 2007 when concentrations ranged between 0.014 mg/L and 0.097 mg/L. MW-18S TCE concentrations will continue to be closely monitored.

PFAS

As required by NYSDEC letter dated April 26, 2022 (Appendix B), the NYSDEC assessed the emergent contaminate sampling results detailed within the 2021-2022 PPR and requested monitoring wells CW-3B, CW-4A, CW-4B and MW-17S continue to be sampled annually for PFAS and 1,4-dioxane. Additionally, sample MW-5D annually for 1,4-dioxane only. The 2021 and 2022 laboratory EC results are presented in Table 3-2

and the laboratory analytical report is included in Appendix F. The table below provides the 2022 detected PFAS compounds in ng/L (nanograms per liter or parts per trillion).

Parameter	Units	CW3B-1022	CW4A-1022	CW4B-1022	MW17S-1022	Guidance Value GA
6:2 Fluorotelomer sulfonate (FtS 6:2)	ng/L	ND	ND	1.7 J	ND	
Perfluorobutanesulfonic Acid (PFBS)	ng/L	1.9 J	1.4 J	1.7 J	1.6 J	
Perfluorobutanoic Acid (PFBA)	ng/L	3.5 J	5.6	6.1	7.2	
Perfluoroheptanoic Acid (PFHpA)	ng/L	2.6 J	1.1 J	ND	6.5	
Perfluorohexanesulfonic Acid (PFHxS)	ng/L	2.6 J	1.4 J	3.2 J	2.7 J	
Perfluorononanoic Acid (PFNA)	ng/L	ND	ND	ND	1.7 J	
Perfluorooctanesulfonic Acid (PFOS)	ng/L	9.2	6.4	5.8	4.4	2.7
Perfluorooctanoic Acid (PFOA)	ng/L	6.1	6.7	6.3	40	6.7
Perfluoropentanoic Acid (PFPeA)	ng/L	2.4 J	ND	ND	3.5 J	
Total PFAS	ng/L	28.3	22.6	24.8	67.6	

J - Estimated Value ND - Not Detected
Concentrations in bold exceed Guidance Value

As observed in the table above there is one or more PFAS identified in each of the four groundwater samples. The majority of these detections are flagged “J”, indicating the result is a low-level estimated value between the laboratory method detection limit and laboratory reporting limit. These values are estimated as they are not accurately quantified at this low-level concentration. The two compounds with guidance values are PFOS and PFOA. Results above guidance values are listed in bold in the above table

1,4-Dioxane

The table below provides the 2022 detected 1,4-Dioxane compounds in ug/L (micrograms per liter or parts per billion) with concentration in bold exceeding guidance value.

Parameter	Units	CW3B-1022	CW4A-1022	CW4B-1022	MW17S-1022	MW5D-1022	Guidance Value GA
1,4-Dioxane	UG/L	0.85	0.35	0.34	0.3 B	0.18 B	0.35

B - Analyte also detected in associated method blank sample
Concentrations in bold exceed Guidance Value

3.3 Data Quality Assessment

Samples were collected following proper procedures and were placed in laboratory supplied, pre-labeled containers, pre-preserved as appropriate, recorded on chain-of-custody form(s), placed in coolers, and packed with bagged ice. At the end of each sampling day, chain-of-custody forms were reviewed for completeness, coolers were re-iced and sealed. Samples were received by the laboratory in good condition and within

temperature requirements. Samples were generally analyzed within appropriate hold times and the laboratory reported no significant analysis anomalies. Additional data quality control information is provided in the laboratory analytical reports located in Appendix F. The results presented in this report should be considered technically correct and usable.

Field Duplicate Samples

A field duplicate sample was collected during the fall sampling event. A field duplicated sample (DUP1-1022) was collected from monitoring well MW-17S on October 18, 2022. Results from the MW-17S sample compare favorably with the associated duplicate sample, indicating good sampling and analysis precision. A field duplicate sample comparison is presented in Table 3-3.

Field Equipment Blank Sample

A field sampling pump equipment blank sample was collected during the fall sampling event (EB1-1022). The field equipment blank sample was collected by pumping laboratory provided deionized water through the sampling pump and tubing. Sample EB1-1022 was collected from the bladder pump and tubing used to sample monitoring wells CW-3A, MW-4D, MW-5D, MW-5S, MW-11S and MW-18S. 2022 equipment blank results show non-detect results, indicative of proper sampling equipment cleaning. Equipment blank results are provided in Table 3-4.

3.4 Potentiometric Mapping

Prior to monitoring well purging and groundwater sample collection, static groundwater levels were measured at monitoring wells and piezometers. The fall 2022 groundwater elevations are utilized to develop separate potentiometric maps for wells screened in overburden and wells screened in bedrock. The potentiometric maps for 2022 are included as Figures 3 and Figure 4. Each contour represents a line of equivalent groundwater elevation. The direction of groundwater flow is generally to the southwest from higher to lower groundwater elevation. The 2022 potentiometric maps are consistent with historic groundwater level data indicating stable and predictable groundwater flow.

4.0 SURFACE WATER AND SEDIMENT MONITORING RESULTS

Surface water and sediment location SWS-1 is positioned at the southwest corner of the landfill at the downstream side of the culvert within the drainage ditch that leads to an unnamed tributary to Duffy Hollow Creek (Figure 2). Both the unnamed tributary and Duffy Hollow Creek are classified as NYSDEC Class C streams. Surface water and sediment sampling at SWS-1 is required on an annual basis. In 2022 SWS-1 was sampled on May 18, 2022. Sediment was not observed within the surface water ditch in

2022 and therefore not sampled. Surface water results from the last three samplings are presented in Table 4-1. The 2022 surface water results are below Class C Standards with VOCs reported as non-detect. Surface water seeps along the perimeter of the landfill have not been observed to be active since 2003; therefore no seep samples were collected in 2022.

5.0 LEACHATE SUMP AND MANHOLE MONITORING RESULTS

Water samples are required to be collected at Leachate Sump (LS-1) and two groundwater cut-off manholes (MH-32 and MH-33) annually. Sampling locations are presented in Figure 2. Table 5-1 lists last three years results and exceedances at LS-1, MH-32 and MH-33. A discussion of leachate sump and manhole analytical results is provided below.

5.1 Leachate Monitoring Results

Metals

Metals were analyzed in one leachate sample during 2022. Metals detected in 2022 include Barium, Calcium, Iron, Magnesium, Manganese, Potassium and Sodium. 2022 Metals results are consistent with historic data and show Iron, Manganese and Sodium exceeding Class GA Standards. A concentration time trend plot for Iron, Manganese and Sodium is included in Appendix E. This plot illustrates LS-1 Iron, Manganese and Sodium concentrations generally stable the last 10 years.

VOCs

VOCs were analyzed in one leachate sample during 2022 with results consistent with historic data. With the exception of cDCE, 2022 LS-1 VOC results are non-detect. A concentration time trend plot for cDCE, TCE and Vinyl Chloride is included in Appendix E. This plot shows a cDCE ranging between 0.026 mg/L and 0.47 mg/L with TCE and Vinyl chloride at or near detect limits the last 10 years.

5.2 Manhole Monitoring Results

Metals

Metals were analyzed in two manhole water samples in fall 2022. Metals detected in 2022 at MH-32 and MH-33 includes Barium, Calcium, Iron, Magnesium, Manganese, Potassium and Sodium. 2022 Manhole metals results are consistent with historic data and show Class GA exceedances for Iron and Manganese. Concentration time trend plots for Iron, Manganese and Sodium have been created as presented in Appendix E. MH-32 and MH-33 Iron, Manganese and Sodium concentrations appear generally stable the last 10 years.

VOCs

VOCs were analyzed in two manhole water samples in fall 2022. MH-32 shows detections of cDCE (0.26 mg/L), Dichloromethane (0.016 mg/L), TCE (0.3714 mg/L) and Vinyl chloride (0.0028 mg/L), which are generally typical for this location. With the exception of cDCE at 0.001 mg/L, MH-33 2022 VOC results are non-detect. Concentration time trend plots for cDCE, TCE and Vinyl chloride are included in Appendix E. MH-32 cDCE concentrations have fluctuated from near detection limit to 9.1 mg/L while TCE and Vinyl chloride have been at or near detection limit the last 10 years. MH-33 has shown cDCE, TCE and Vinyl chloride at or near detection limits the last 10 years.

General Chemistry

Manholes MH-32 and MH-33 were sampled for Nitrate Nitrogen and Total Dissolved Solids (TDS) in 2022. Nitrate Nitrogen results are non-detect. MH-32 and MH-33 2022 TDS results are 405 mg/L and 360 mg/L, respectively. These TDS results are below Class GA and Class C Standards of 500 mg/L.

6.0 AIR QUALITY MONITORING RESULTS

Air monitoring at the landfill perimeter, gas vents and LCS locations was conducted during the fall 2022 event utilizing a QRAE Mini RAE 3000 Photo Ionization Detector (PID) for VOCs and a QRAE3 four-gas meter for Oxygen (O₂) and Lower Explosive Limit (LEL). Please see Figure 7 for monitoring locations.

Prior to commencing air monitoring, the air monitoring instruments were properly calibrated according to manufacturer specifications. PID readings at the gas vents, LCS manholes and clean-out vents range from 0.0 ppm to 29.6 ppm. Oxygen levels ranged from 8.9% to 20.9%. 2022 LEL readings range from 0% to 100%. Upwind and downwind PID and LEL readings at the landfill perimeter are not above background readings indicating no measurable landfill gas at the landfill perimeter. Oxygen readings at the landfill perimeter are also within normal range. The air monitoring readings are recorded in tabular form and presented in Table 6-1.

7.0 RESIDENTIAL WATER SUPPLY MONITORING RESULTS

Three residential water supplies were sampled in 2022. Residential location WAL-19 was sampled in the spring and fall 2022 while residential locations WAL-1 and WAL-2 were sampled in fall 2022. WAL-5 was not sampled as it remains vacant. Table 7-1 presents an overview of 2022 residential contact information and sampling summary. Table 7-2 is a tabular listing of 2022 residential water analytical results. Figure 2

presents the approximate sampling locations. A discussion of analytical results is provided below.

Metals

WAL-1 2022 metals results are below NYSDOH MCLs and Class GA Standards. WAL-2, sampled for metals only, shows Iron at 0.48 mg/L and Manganese at 0.569 mg/L, exceeding the NYSDOH MCLs and Class GA Standards. Additionally, Sodium at 56.1 mg/L exceeds the Class GA Standard. The WAL-2 2022 metals results are consistent with historic results and ambient groundwater quality. The water quality exceedances are likely naturally occurring detections and not associated with the landfill. Metals analysis is not required at WAL-19.

VOCs

The residential water supply samples requiring VOC analysis are tested for Target Compound List VOCs (method 524.2) as required by the current O&M Plan. WAL-1 VOCs are non-detect in 2022 as typical. VOC analysis is not required at WAL-2. WAL-19 was sampled for VOCs before filters, between filters, and after filters on May 18, 2022 and again on October 20, 2022. WAL-19 results are typical of historic data with detected compounds cDCE and TCE before filters at concentrations below Class GA standards and NYSDOH MCLs and non-detect after filtration.

8.0 INSPECTIONS AND MAINTENANCE ACTIVITIES

Quarterly Inspections and routine maintenance were performed by Village of Wellsville personnel and recorded on the Quarterly Inspection and Maintenance Checklist provided in the O&M Plan. Quarterly inspections were completed on March 31, June 31, September 29 and December 28, 2022. No unresolved problems were noted on the inspection forms. The 2022 completed inspection forms are included in Appendix D. A description of maintenance activities performed during 2022 is provided below.

- The landfill cap vegetative cover was mowed by Village of Wellsville in October 2022.
- The Village of Wellsville continues to contract maintenance of the water treatment unit at WAL-19 residence.
- Spring 2022 Village of Wellsville replaced leachate sump pumps number 2.
- On June 1 and 2 2022, leachate collection system manholes and laterals were cleaned by JJH Powerwash utilizing water jet and vacuum unit with oversight provided by On-Site. Details of this work are presented in Table 8-1.
- Approximately 1,390,000 gallons of leachate was hauled by Village of Wellsville from the Site to the Village of Wellsville POTW during 2022. The table below lists the total leachate gallons by year for the previous six years.

Year/Gallons	2017	2018	2019	2020	2021	2022
	2,521,185	2,891,240	2,480,000	1,990,000	2,128,000	1,390,000

9.0 CONCLUSIONS

Monitoring and maintenance activities are being performed as required at the Wellsville/Andover Landfill. Routine maintenance and inspections are being conducted to maintain the Site. The approved monitoring plan requires annual groundwater EC sampling starting in 2021. Twenty-five years of post-remedial action monitoring has been completed and illustrates the Site is stable. Monitoring will continue as required by the approved plan detailed in Section 2 of this report.

Maintenance activities planned for 2023 include:

- annual mowing of landfill cap vegetation;
- leachate management and disposal;
- leachate collection system cleaning; and
- WAL-19 water treatment unit maintenance.

Tables

Table 2-1

**Monitoring Requirements
Wellsville/Andover Landfill
Wellsville, New York**

Location	Sampling Frequency	Analyte List ¹
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Groundwater⁸

CW-3A	Annual - Fall	Field, VOCs, Metals
CW-3B	Annual - Fall	Field, VOCs, Metals, ECs
CW-4A	Annual - Fall	Field, VOCs, Metals, ECs
CW-4B	Annual - Fall	Field, VOCs, Metals, ECs
MW-17D	Annual - Fall	Field, VOCs, Metals
MW-17S	Annual - Fall	Field, VOCs, Metals, ECs
MW-18D	Annual - Fall	Field, VOCs, Metals
MW-18S	Annual - Fall	Field, VOCs, Metals
MW-3D	Annual - Fall	Field, VOCs, Metals
MW-4D	Annual - Fall	Field, VOCs, Metals
MW-5D	Annual - Fall	Field, VOCs, Metals, 1,4-D
MW-5S	Annual - Fall	Field, VOCs, Metals
MW-11S	Annual - Fall	Field, VOCs, Metals

Leachate

LS-1	Annual - Fall	Field, VOCs, Metals
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Groundwater Cut-Off System

MH-32	Annual - Fall	Field, VOCs, Metals, NO ₃ , TDS
MH-33	Annual - Fall	Field, VOCs, Metals, NO ₃ , TDS

Notes

Revised monitoring program is based on: April 3, 2009 On-Site letter *Site Monitoring Evaluation and Proposed Revised Monitoring Program*; NYSDEC May 12, 2009 response follow up e-mail and May 19, 2021 NYSDEC Letter (Appendix B).

¹ - Field = Field Parameters (WL, pH, Conductivity, Dissolved Oxygen, Turbidity, Oxidation Reduction Potential)

- VOCs = Volatile Organic Compounds method 8260

- Metals = As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Na, Z

- NO₃ = Nitrate Nitrogen and TDS = Total Dissolved Solids

- ECs = PFAS & 1,4-Dioxane

- 1,4-D = 1,4-Dioxane

² WAL-19 tested for VOCs prior to filters, between filters and after filters

³ Wet Chemistry - Color, TOC, Total Phenolics, Alkalinity, BOD, Cl, Br, SO₄, TDS, NO₃, NH₃, COD, TKN

⁴ Annual periodic review report will include details of the year's monitoring results, comparison of results to standards and historic results, potentiometric maps, details operation and maintenance and IC/EC certification.

⁵ Residential VOCs are tested using method 524.2

⁶ Starting in 2016 Surface Water and Sediment sampling changed from fall to spring due to dry conditions in fall often prohibiting sample collection

⁷ Starting 2016, WAL-1 residential water supply added back into the monitoring programs as this residence is occupied.

⁸ Starting 2022, only annual groundwater sampling required in Fall. Additionally, MW-3S, MW-15S and MW-16S removed from sampling program and annual EC sampling added to select monitoring wells.

Location	Sampling Frequency	Analyte List ¹
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Residential Water Supply

WAL-1 ⁷	Annual - Fall	VOCs ⁵ , Metals
WAL-2	Annual - Fall	Metals
WAL-5	Annual - Fall	VOCs ⁵ , Metals
WAL-19	Semiannual - Spring/Fall	VOCs ^{2,5}

Landfill Gas Monitoring

Vents	Annual - Fall	PID, LEL, O ₂
Leachate Clean-outs	Annual - Fall	PID, LEL, O ₂
Manholes	Annual - Fall	PID, LEL, O ₂
Perimeter	Annual - Fall	PID, LEL, O ₂

Surface Water⁶

SWS-1	Annual - Spring	Field, VOCs, Metals, Wet Chem ³
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Sediment⁶

SWS-1	Annual - Spring	Field, VOCs, Metals, Wet Chem ³
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Groundwater Level Monitoring

Active Wells	Annual - Fall	Depth to Groundwater
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Reporting

Annual	Annual Periodic Review Report ⁴
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Table 2-2

**Approved Analyte List
Wellsville/Andover Landfill
Wellsville, New York**

Field Parameters
Specific Conductance
Temperature
Field pH
Oxygen Reduction Potential
Dissolved Oxygen
Turbidity

Inorganic Compounds
Arsenic
Barium
Cadmium
Calcium
Chromium
Copper
Iron
Lead
Manganese
Magnesium
Nickel
Potassium
Selenium
Sodium
Zinc

Groundwater Cut-Off System Wet Chemistry
Nitrate Nitrogen
Total Dissolved Solids

Surface Water and Sediment Wet Chemistry
Alkalinity
Ammonia Nitrogen
Biochemical Oxygen Demand
Bromide
Chemical Oxygen Demand
Chloride
Color (True) (C.U.)
Nitrate Nitrogen
Sulfate
Total Dissolved Solids
Total Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Total Phenolics

Volatile Organic Compounds
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dibromoethane
1,2-Dichloroethane
1,2-Dichloropropane
2-Butanone (MEK)
2-Hexanone
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Dichloromethane (Methylene chloride)
Ethyl benzene
m&p-Xylene
o-Xylene
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl chloride

Table 2-3

**2022 Static Groundwater Level Monitoring Data
Wellsville/Andover Landfill
Wellsville, New York**

Well Number	Well Diameter (in)	TOC Elevation (ft amsl)	Protective Casing Elevation (ft amsl)	Ground Elevation (ft amsl)	Well Depth from TOC (ft)	Screened Interval from Ground (ft)	Screened Bedrock or Overburden	10/14/2022 DTW From TOC (ft)	10/14/2022 Static Water Elevation (ft amsl)
MW-1D	2	2193.32	2193.75	2190.6	77.39	64 - 74	Bedrock	69.09	2124.23
MW-3D	2	2095.80	2096.07	2092.4	46.75	30 - 40	Bedrock	21.55	2074.25
MW-3S	2	2095.70	2095.96	2093.1	25.92	9 - 19	Overburden	12.34	2083.36
MW-4D	2	2092.22	2092.39	2090.3	24.63	12 - 22	Bedrock	15.34	2076.88
MW-5D*	2	2067.58	2067.78	2065.4	37.74	26.5 - 36.5	Bedrock	4.41	2063.17
MW-5S	2	2067.30	2067.59	2065.5	21.20	10 - 20	Overburden	3.60	2063.70
MW-7D	2	2012.13	2012.69	2009.6	47.97	35 - 45	Bedrock	37.35	1974.78
MW-11S	2	2003.52	2003.86	2001.6	20.40	8 - 18	Overburden	8.03	1995.49
MW-15S	2	2022.88	2023.05	2020.2	22.10	9 - 19	Overburden	22.24	2000.64
MW-15DA	2	2022.67	2023.08	2020.4	56.28	43 - 53	Bedrock	56.13	1966.54
MW-16D	2	1924.73	1925.25	1922.0	53.00	40 - 50	Bedrock	30.69	1894.04
MW-16S	2	1924.98	1925.15	1922.2	18.67	6 - 16	Overburden	14.58	1910.40
MW-17D	4	2037.36	NA	2034.9	65.1	48 - 63 (open hole)	Bedrock	32.23	2005.13
MW-17S	2	2037.59	2037.68	2034.6	26.94	9 - 24	Overburden	9.56	2028.03
MW-18D	4	2066.19	NA	2062.6	28.50	24.5 - 39.5 (open hole)	Bedrock	14.73	2051.46
MW-18S	2	2064.60	2065.72	2063.0	20.49	4 - 19	Overburden	11.16	2053.44
CW-3A	2	2013.75	2013.90	2012.9	27.47	21 - 26	Overburden	9.80	2003.95
CW-3B	2	2013.90	2014.10	2012.9	37.70	33.5 - 38.5	Overburden	20.92	1992.98
CW-4A	2	2006.11	2006.35	2004.7	19.12	13 - 18	Overburden	6.44	1999.67
CW-4B	2	2005.84	2005.93	2004.7	30.16	25.5 - 30.5	Overburden	5.80	2000.04
PZ-1	2	2095.11	2095.27	2092.2	NM	6 - 13	Overburden/ Refuse	14.74	2080.37
PZ-2	2	2095.83	2096.13	2092.9	NM	14 - 24	Overburden/ Refuse	19.37	2076.46
PZ-4	2	2067.13	2067.38	2064.4	NM	12 - 22	Overburden/ Refuse	26.03	2041.10
PZ-5	2	2059.71	2059.71	2056.7	NM	8 - 18	Overburden/ Refuse	12.38	2047.33
PZ-6	2	2042.18	2042.31	2039.2	NM	8 - 18	Overburden/ Refuse	22.67	2019.51

Notes:**Dry** - Water not present**NM** - Not Measured**NA** - Not Applicable

* MW-5D Repaired on 10/29/2019. After repair measured new TOC elevation at 2067.58 ft and Protective Casing at 2067.78 ft

Table 3-1

Groundwater Analytical Results (Last 3 Years)
 Wellsville/Andover Landfill
 Wellsville, New York
 (mg/L except where noted)

Parameter	CW-3A 10/20/2020	CW-3A 10/18/2021	CW-3A 10/20/2022	CW-3B 10/21/2020	CW-3B 10/18/2021	CW-3B 10/18/2022	CW-4A 10/21/2020	CW-4A 10/18/2021	CW-4A 10/19/2022	CW-4B 10/21/2020	CW-4B 10/18/2021	CW-4B 10/18/2022	Class GA Standard	Guidance Value GA	NYSDOH MCL
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Field Parameters

Depth to Groundwater (ft)	9.04	9.3	9.79	20.93	20.84	20.78	9.34	3.34	6.6	6.51	5.09	5.62			
Dissolved Oxygen	6.1	6.16	9.42	1.16	1.75	0.91	0.79	2.85	7.31	3.4	3.12	4.42			
Field pH (std. units)	12.17	11.68	12.01	6.84	6.73	6.59	6.45	6.16	6.33	6.91	6.73	6.58	6.5 - 8.5		
ORP (mV)	-32.6	113.2	96.3	146.8	272	139.6	159.8	229.4	106.6	163.1	265	194.8			
Specific Conductivity (us/cm)	990	639.9	1479	590.7	595.7	604.9	307	319.2	279.9	349.9	348.9	353.5			
Temperature (deg. C)	10	10.5	4.9	13.5	8.8	7.8	18.6	10.9	9.7	15.9	11.7	9.9			
Turbidity (NTU)	4.87	9.37	1.15	0.33	0.25	3.4	19.1	1.68	9.61	0.66	0.34	0.57	5		5

Inorganic Compounds

Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025		0.01
Barium	0.08	0.0628	0.098	0.038	0.0384	0.039	0.076	0.0609	0.056	0.031	0.0316	0.03	1		2
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Calcium	86.9	36.9	123	67.4	69.9	69.6	29.4	33.4	29.1	39	40.7	39.7			
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05		0.1
Copper	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.2		1.3
Iron	0.1 U	0.1 U	0.51	0.1 U	0.1 U	0.1	1.1	0.1 U	0.28	0.1 U	0.1 U	0.1 U	0.3		0.3
Lead	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.025		0.015
Magnesium	1.5	2.86	1 U	34.2	35.5	35.4	16.2	17.1	16.2	16.2	17.1	17		35	
Manganese	0.026	0.0183	0.01	0.029	0.0298	0.041	0.736	0.491	0.293	0.037	0.249	0.033	0.3		0.3
Nickel	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.1		0.1
Potassium	11.8	12	12.4	2.5	2.46	2.6	2 U	2 U	2 U	2 U	2 U	2 U			
Selenium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01		0.05
Sodium	42.6	55.7	36.4	21.4	22.3	21.9	14.3	13.9	13.6	14.9	15.5	14.7	20		
Zinc	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U		2	5

Semi Volatile Organic Compounds

1,4-Dioxane		0.00013			0.0009	0.00085		0.00039	0.00035		0.0004	0.00034		0.00035	0.001
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Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1,2-Trichloroethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001		0.005
1,1-Dichloroethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1-Dichloroethene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,2-Dibromoethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	CW-3A 10/20/2020	CW-3A 10/18/2021	CW-3A 10/20/2022	CW-3B 10/21/2020	CW-3B 10/18/2021	CW-3B 10/18/2022	CW-4A 10/21/2020	CW-4A 10/18/2021	CW-4A 10/19/2022	CW-4B 10/21/2020	CW-4B 10/18/2021	CW-4B 10/18/2022	Class GA Standard	Guidance Value GA	NYSDOH MCL
Volatile Organic Compounds (con't)															
1,2-Dichloroethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.0006		0.005
1,2-Dichloropropane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001		0.005
2-Butanone (MEK)	0.01 U	0.01 U	0.005 U	0.025 U	0.05 U	0.025 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.005	0.05	0.05
2-Hexanone	0.01 U	0.01 U	0.005 U	0.025 U	0.05 U	0.025 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U			0.05
4-Methyl-2-pentanone	0.01 U	0.01 U	0.005 U	0.025 U	0.05 U	0.025 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U			0.05
Acetone	0.01 U	0.01 U	0.005 U	0.025 U	0.05 U	0.025 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U		0.05	0.05
Benzene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001		0.005
Bromodichloromethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U		0.05	0.08
Bromoform	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U		0.05	0.08
Bromomethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Carbon disulfide	0.01 U	0.01 U	0.001 U	0.025 U	0.05 U	0.005 U	0.01 U	0.01 U	0.001 U	0.01 U	0.01 U	0.001 U		0.06	0.06
Carbon tetrachloride	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chlorobenzene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chloroethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chloroform	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.007		0.08
Chloromethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
cis-1,2-Dichloroethene	0.0081	0.005 U	0.0048	0.11	0.1	0.077	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
cis-1,3-Dichloropropene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.0004		0.005
Dibromochloromethane	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005	0.05	0.08
Dichloromethane (Methylene chloride)	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U			0.005
Ethyl benzene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
m&p-Xylene	0.005 U	0.005 U	0.002 U	0.013 U	0.025 U	0.01 U	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.002 U	0.005		0.005
o-Xylene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Styrene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Tetrachloroethene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Toluene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
trans-1,2-Dichloroethene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
trans-1,3-Dichloropropene	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.0004		0.005
Trichloroethene	0.042	0.017	0.026	0.43 D	0.43	0.36	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Vinyl chloride	0.005 U	0.005 U	0.001 U	0.013 U	0.025 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.002		0.002

Table 3-1

Groundwater Analytical Results (Last 3 Years)
 Wellsville/Andover Landfill
 Wellsville, New York
 (mg/L except where noted)

Parameter	MW-3D 10/19/2020	MW-3D 10/20/2021	MW-3D 10/20/2022	MW-3S 10/19/2020	MW-4D 4/20/2020	MW-4D 10/16/2020	MW-4D 4/20/2021	MW-4D 10/20/2021	MW-4D 10/19/2022	MW-5D 4/22/2020	MW-5D 10/15/2020	MW-5D 4/20/2021	MW-5D 10/19/2021	MW-5D 10/19/2022	Class GA Standard	Guidance Value GA	NYSDOH MCL
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Field Parameters

Depth to Groundwater (ft)	21.21	17.93	21.7	12.87	9.62	16.33	11.08	10.92	15.4	1.92	5.11	2.23	1.94	4.6			
Dissolved Oxygen	0.51	1.47	6.11	1.82	2.79	1.76	1.74	1.6	5.99	1.43	4.54	0.3	1.33	5.22			
Field pH (std. units)	6.72	6.57	10.75	7.02	6.53	6.15	6.17	6.32	6.21	6.84	6.65	6.68	6.6	6.83	6.5 - 8.5		
ORP (mV)	203.7	136.9	214.6	203.6	52.9	-38.9	31.8	16.4	33.2	75.7	127.8	157.3	174.4	9			
Specific Conductivity (us/cm)	634	658	415.8	535.3	283	255	279.1	270.6	221.1	214.8	162.3	180.1	167.3	155.9			
Temperature (deg. C)	9.3	16.5	5.5	9.1	11.9	6.6	7.1	18.9	6.6	7	15.2	6.6	16.2	8.1			
Turbidity (NTU)	0.63	0.34	0.36	4.72	5.88	2.25	48.8	0.91	1.94	3.16	1.01	1.2	0.35	2.24	5		5

Inorganic Compounds

Arsenic	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U		0.01 U	0.01 U		0.01 U		0.01 U	0.01 U	0.025		0.01
Barium	0.11	0.11	0.065	0.046		0.028		0.021	0.02 U		0.024		0.0379	0.03	1		2
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U		0.005 U	0.005 U		0.005 U		0.005 U	0.005 U	0.005		0.005
Calcium	69.4	70.1	44.9	45.2		24.1		23.9	20.2		15.5		20.1	15.1			
Chromium	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U		0.01 U	0.01 U		0.01 U		0.01 U	0.01 U	0.05		0.1
Copper	0.02 U	0.02 U	0.02 U	0.02 U		0.02 U		0.02 U	0.02 U		0.02 U		0.02 U	0.02 U	0.2		1.3
Iron	0.1 U	0.1 U	0.37	0.22		0.63		0.63	0.52		0.1 U		0.125	1.03	0.3		0.3
Lead	0.05 U	0.05 U	0.005 U	0.05 U		0.05 U		0.05 U	0.005 U		0.05 U		0.05 U	0.005 U	0.025		0.015
Magnesium	35.9	36.3	6.5	33.4		19.5		19.7	18.1		9.5		14.1	9.5		35	
Manganese	0.022	0.022	0.01 U	0.013		2.73		3.15	1.61		0.306		0.519	0.414	0.3		0.3
Nickel	0.04 U	0.04 U	0.04 U	0.04 U		0.04 U		0.04 U	0.04 U		0.04 U		0.04 U	0.04 U	0.1		0.1
Potassium	2.2	2.4	4.6	3.1		2.4		2.4	2.4		2 U		2 U	2 U			
Selenium	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U		0.01 U	0.01 U		0.01 U		0.01 U	0.01 U	0.01		0.05
Sodium	15.8	16.9	19	35.7		5.7		5.7	5.7		6.9		7.37	6.3	20		
Zinc	0.02 U	0.02 U	0.02 U	0.02 U		0.02 U		0.02 U	0.021		0.02 U		0.02 U	0.02 U		2	5

Semi Volatile Organic Compounds

1,4-Dioxane													0.00066	0.00018 B		0.00035	0.001
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Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1,2-Trichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001		0.005
1,1-Dichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1-Dichloroethene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,2-Dibromoethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005

Table 3-1

Groundwater Analytical Results (Last 3 Years)
 Wellsville/Andover Landfill
 Wellsville, New York
 (mg/L except where noted)

Parameter	MW-3D 10/19/2020	MW-3D 10/20/2021	MW-3D 10/20/2022	MW-3S 10/19/2020	MW-4D 4/20/2020	MW-4D 10/16/2020	MW-4D 4/20/2021	MW-4D 10/20/2021	MW-4D 10/19/2022	MW-5D 4/22/2020	MW-5D 10/15/2020	MW-5D 4/20/2021	MW-5D 10/19/2021	MW-5D 10/19/2022	Class GA Standard	Guidance Value GA	NYSDOH MCL
Volatile Organic Compounds (con't)																	
1,2-Dichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.0006		0.005
1,2-Dichloropropane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001		0.005
2-Butanone (MEK)	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.005 U	0.025 U	0.01 U	0.01 U	0.01 U	0.005 U	0.005	0.05	0.05
2-Hexanone	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.005 U	0.025 U	0.01 U	0.01 U	0.01 U	0.005 U			0.05
4-Methyl-2-pentanone	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.005 U	0.025 U	0.01 U	0.01 U	0.01 U	0.005 U			0.05
Acetone	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.005 U	0.025 U	0.01 U	0.01 U	0.01 U	0.005 U		0.05	0.05
Benzene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001		0.005
Bromodichloromethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U		0.05	0.08
Bromoform	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U		0.05	0.08
Bromomethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Carbon disulfide	0.01 U	0.01 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.001 U	0.025 U	0.01 U	0.01 U	0.01 U	0.001 U		0.06	0.06
Carbon tetrachloride	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chlorobenzene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chloroform	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.007		0.08
Chloromethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
cis-1,2-Dichloroethene	0.0076	0.007	0.0019	0.005 U	0.12	0.18	0.22 D	0.19	0.16	0.23	0.089	0.15	0.15	0.083	0.005		0.005
cis-1,3-Dichloropropene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.0004		0.005
Dibromochloromethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005	0.05	0.08
Dichloromethane (Methylene chloride)	0.005 U	0.005 U	0.0011	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U			0.005
Ethyl benzene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
m&p-Xylene	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.002 U	0.013 U	0.005 U	0.005 U	0.005 U	0.002 U	0.005		0.005
o-Xylene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Styrene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Tetrachloroethene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Toluene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
trans-1,2-Dichloroethene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005		0.005
trans-1,3-Dichloropropene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.001 U	0.013 U	0.005 U	0.005 U	0.005 U	0.001 U	0.0004		0.005
Trichloroethene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.0027	0.11	0.018	0.031	0.052	0.014	0.005		0.005
Vinyl chloride	0.005 U	0.005 U	0.001 U	0.005 U	0.049	0.033	0.098	0.055	0.077	0.015	0.005 U	0.0097	0.013	0.0047	0.002		0.002

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW-5S 4/22/2020	MW-5S 10/15/2020	MW-5S 4/20/2021	MW-5S 10/19/2021	MW-5S 10/19/2022	MW-11S 4/20/2020	MW-11S 10/15/2020	MW-11S 4/19/2021	MW-11S 10/20/2021	MW-11S 10/20/2022	MW-16S 4/20/2020	MW-16S 10/15/2020	MW-16S 4/19/2021	Class GA Standard	Guidance Value GA	NYSDOH MCL
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Field Parameters

Depth to Groundwater (ft)	1.93	4.43	2.26	1.98	4.1	4.2	8.82	5.82	6.13	8.22	6.73	14.67	10.45			
Dissolved Oxygen	2.83	1.09	0.48	0.76	4.57	1.52	1.18	0.34	2.32	1.21	8.89	3.65	7.63			
Field pH (std. units)	6.33	6.24	6.22	6.1	6.19	6.99	6.79	6.88	6.64	5.75	7.2	7.12	7.03	6.5 - 8.5		
ORP (mV)	11.5	-8.9	66.9	39.9	45.2	86.4	69.1	150.5	82.5	97.2	138.9	28.9	158			
Specific Conductivity (us/cm)	142	157.2	153.4	162.2	144.6	492	520.3	554.1	550.9	551.9	149.5	184	153.8			
Temperature (deg. C)	6	18.3	6.9	16.2	7.7	12.7	18	12.9	17.2	9.3	8.3	19.8	10.3			
Turbidity (NTU)	38.5	3.01	8.43	9.09	0.93	2.65	2.78	1.85	1.4	2.27	2.99	6.08	10	5		5

Inorganic Compounds

Arsenic		0.01 U		0.01 U	0.01 U		0.01 U		0.01 U	0.01 U		0.01 U		0.025		0.01
Barium		0.02 U		0.02 U	0.02 U		0.026		0.027	0.026		0.021		1		2
Cadmium		0.005 U		0.005 U	0.005 U		0.005 U		0.005 U	0.005 U		0.005 U		0.005		0.005
Calcium		14		14.7	13.5		55.3		55.3	57		18				
Chromium		0.01 U		0.01 U	0.01 U		0.01 U		0.01 U	0.01 U		0.01 U		0.05		0.1
Copper		0.02 U		0.02 U	0.02 U		0.02 U		0.02 U	0.02 U		0.02 U		0.2		1.3
Iron		0.28		2.17	0.2		0.13		0.11	0.15		0.24		0.3		0.3
Lead		0.05 U		0.05 U	0.005 U		0.05 U		0.05 U	0.005 U		0.05 U		0.025		0.015
Magnesium		10.1		9.97	9.8		33.6		33.7	35.1		10.1			35	
Manganese		0.079		0.172	0.076		0.836		0.758	0.814		0.01 U		0.3		0.3
Nickel		0.04 U		0.04 U	0.04 U		0.04 U		0.04 U	0.04 U		0.04 U		0.1		0.1
Potassium		2 U		2 U	2 U		2 U		2 U	2 U		2 U				
Selenium		0.01 U		0.01 U	0.01 U		0.01 U		0.01 U	0.01 U		0.01 U		0.01		0.05
Sodium		6.9		6.54	6.3		21.1		21.4	20.7		9.8		20		
Zinc		0.02 U		0.02 U	0.02 U		0.02 U		0.02 U	0.02 U		0.02 U			2	5

Semi Volatile Organic Compounds

1,4-Dioxane				0.00017											0.00035	0.001
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Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
1,1,2-Trichloroethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.001		0.005
1,1-Dichloroethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
1,1-Dichloroethene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
1,2-Dibromoethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW-5S 4/22/2020	MW-5S 10/15/2020	MW-5S 4/20/2021	MW-5S 10/19/2021	MW-5S 10/19/2022	MW-11S 4/20/2020	MW-11S 10/15/2020	MW-11S 4/19/2021	MW-11S 10/20/2021	MW-11S 10/20/2022	MW-16S 4/20/2020	MW-16S 10/15/2020	MW-16S 4/19/2021	Class GA Standard	Guidance Value GA	NYSDOH MCL
Volatile Organic Compounds (con't)																
1,2-Dichloroethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.0006		0.005
1,2-Dichloropropane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.001		0.005
2-Butanone (MEK)	0.01 U	0.01 U	0.02 U	0.01 U	0.005 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.01 U	0.01 U	0.01 U	0.005	0.05	0.05
2-Hexanone	0.01 U	0.01 U	0.02 U	0.01 U	0.005 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.01 U	0.01 U	0.01 U			0.05
4-Methyl-2-pentanone	0.01 U	0.01 U	0.02 U	0.01 U	0.005 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.01 U	0.01 U	0.01 U			0.05
Acetone	0.01 U	0.01 U	0.02 U	0.01 U	0.005 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.01 U	0.01 U	0.01 U		0.05	0.05
Benzene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.001		0.005
Bromodichloromethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U		0.05	0.08
Bromoform	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U		0.05	0.08
Bromomethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Carbon disulfide	0.01 U	0.01 U	0.02 U	0.01 U	0.001 U	0.2 U	0.2 U	0.2 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U		0.06	0.06
Carbon tetrachloride	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Chlorobenzene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Chloroethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Chloroform	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.007		0.08
Chloromethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
cis-1,2-Dichloroethene	0.12	0.2	0.14	0.18	0.17	0.18	0.26	0.29	0.25	0.23	0.005 U	0.005 U	0.005 U	0.005		0.005
cis-1,3-Dichloropropene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.0004		0.005
Dibromochloromethane	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005	0.05	0.08
Dichloromethane (Methylene chloride)	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U			0.005
Ethyl benzene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
m&p-Xylene	0.005 U	0.005 U	0.01 U	0.005 U	0.002 U	0.1 U	0.1 U	0.1 U	0.1 U	0.04 U	0.005 U	0.005 U	0.005 U	0.005		0.005
o-Xylene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Styrene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Tetrachloroethene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Toluene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
trans-1,2-Dichloroethene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.005		0.005
trans-1,3-Dichloropropene	0.005 U	0.005 U	0.01 U	0.005 U	0.001 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.0004		0.005
Trichloroethene	0.027	0.024	0.029	0.035	0.031	2.1	2.5	2.6	2.8	2.7	0.005 U	0.005 U	0.005 U	0.005		0.005
Vinyl chloride	0.011	0.013	0.01	0.016	0.011	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.005 U	0.005 U	0.005 U	0.002		0.002

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW-17D 10/20/2020	MW-17D 10/19/2021	MW-17D 10/21/2022	MW-17S 10/20/2020	MW-17S 10/19/2021	MW-17S 10/18/2022	MW-18D 10/20/2020	MW-18D 10/21/2021	MW-18D 10/20/2022	MW-18S 10/19/2020	MW-18S 10/21/2021	MW-18S 10/20/2022	Class GA Standard	Guidance Value GA	NYSDOH MCL
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Field Parameters

Depth to Groundwater (ft)	33.21	31.86	32.25	10.05	8.61	9.53	15.13	13.43	14.78	11.8	4.29	11.46			
Dissolved Oxygen	5.68	8.67	1.64	0.85	5.61	0.8	1.27	1.11	0.76	1.16	0.67	1.81			
Field pH (std. units)	9.53	9.38	9.48	7.17	7.13	6.49	7.47	7.34	7.56	6.58	6.03	4.93	6.5 - 8.5		
ORP (mV)	65.5	132.9	34.7	71.8	163.4	241.9	-188.9	-170.8	-78.6	-81.2	145.6	217.6			
Specific Conductivity (us/cm)	290.1	298.4	287.1	1071	1149	946	391.1	382.7	363.7	304.2	276.9	264.4			
Temperature (deg. C)	9.1	10.7	10.6	10.8	13.9	8.1	12.8	12.3	7.6	10.9	13.1	7.4			
Turbidity (NTU)	40.4	59.9	38.4	5.4	3.08	7.35	53.5	25.4	25.7	1.6	3.17	9.07	5		5

Inorganic Compounds

Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025		0.01
Barium	0.02 U	0.02 U	0.02 U	0.041	0.0404	0.04	0.073	0.067	0.066	0.049	0.048	0.051	1		2
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Calcium	3	5.26	2.5	89.9	91.2	76.3	41.6	43	39.4	38.6	40.1	34			
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05		0.1
Copper	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.2		1.3
Iron	6.92	16.2	5.5	0.21	0.1 U	0.18	15.5	13.6	4.79	2.51	0.61	0.64	0.3		0.3
Lead	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.025		0.015
Magnesium	19.1	19.4	21.4	61	64.1	49.8	18.6	16.5	18.2	18.1	14.4	15.3		35	
Manganese	0.097	0.214	0.108	0.024	0.055	0.047	0.805	0.635	0.495	0.719	0.079	0.156	0.3		0.3
Nickel	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.1		0.1
Potassium	5.2	5.26	6.4	3.8	3.65	3.6	2.9	2.7	2.8	2.1	2	2.2			
Selenium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01		0.05
Sodium	34.4	35.9	34.2	67.5	78.4	62.7	20.7	20.4	20.9	5.5	4.3	4.8	20		
Zinc	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.026		2	5

Semi Volatile Organic Compounds

1,4-Dioxane		0.00004 U			0.00041	0.0003 B								0.00035	0.001
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Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1,2-Trichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001		0.005
1,1-Dichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,1-Dichloroethene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
1,2-Dibromoethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005

Table 3-1

Groundwater Analytical Results (Last 3 Years)
 Wellsville/Andover Landfill
 Wellsville, New York
 (mg/L except where noted)

Parameter	MW-17D 10/20/2020	MW-17D 10/19/2021	MW-17D 10/21/2022	MW-17S 10/20/2020	MW-17S 10/19/2021	MW-17S 10/18/2022	MW-18D 10/20/2020	MW-18D 10/21/2021	MW-18D 10/20/2022	MW-18S 10/19/2020	MW-18S 10/21/2021	MW-18S 10/20/2022	Class GA Standard	Guidance Value GA	NYSDOH MCL
Volatile Organic Compounds (con't)															
1,2-Dichloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.0006		0.005
1,2-Dichloropropane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001		0.005
2-Butanone (MEK)	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.005	0.05	0.05
2-Hexanone	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U			0.05
4-Methyl-2-pentanone	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U			0.05
Acetone	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.005 U		0.05	0.05
Benzene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001		0.005
Bromodichloromethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U		0.05	0.08
Bromoform	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U		0.05	0.08
Bromomethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Carbon disulfide	0.01 U	0.01 U	0.001 U	0.01 U	0.01 U	0.001 U	0.01 U	0.01 U	0.001 U	0.01 U	0.01 U	0.001 U		0.06	0.06
Carbon tetrachloride	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chlorobenzene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chloroethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Chloroform	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.007		0.08
Chloromethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.001 U	0.043	0.033	0.02	0.005 U	0.005 U	0.001 U	0.0066	0.005 U	0.001 U	0.005		0.005
cis-1,3-Dichloropropene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.0004		0.005
Dibromochloromethane	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005	0.05	0.08
Dichloromethane (Methylene chloride)	0.005 U	0.005 U	0.001	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U			0.005
Ethyl benzene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
m&p-Xylene	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.002 U	0.005		0.005
o-Xylene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Styrene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Tetrachloroethene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
Toluene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
trans-1,2-Dichloroethene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005		0.005
trans-1,3-Dichloropropene	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.0004		0.005
Trichloroethene	0.005 U	0.005 U	0.001 U	0.013	0.011	0.0081	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.021	0.005		0.005
Vinyl chloride	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.002		0.002

Notes :

- U - Concentration not detected at specified limit
- B - Analyte also detected in associated method blank
- J - Estimated Value

Concentrations in **bold** exceed Class GA Standards, Guidance Values and or NYSDOH MCL

Table 3-2

Groundwater PFAS Analytical Results (Last 2 Years)
Wellville/Andover Landfill
Wellsville, New York
(ng/L)

Parameter	CW-3B 10/18/2021	CW-3B 10/18/2022	CW-4A 10/18/2021	CW-4A 10/19/2022	CW-4B 10/18/2021	CW-4B 10/18/2022	MW-17S 10/19/2021	MW-17S 10/18/2022	NYSDOH MCL	NYSDEC Guidance Value GA
6:2 Fluorotelomer sulfonate (FtS 6:2)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	1.7 J	1.2 J	4.6 U		
8:2 Fluorotelomer sulfonic acid (FtS 8:2)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
N-ethylperfluoro-1-octanesulfonamidoacetic acid	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
N-methylperfluoro-1-octanesulfonamidoacetic acid	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluorobutanesulfonic Acid (PFBS)	2.2 J	1.9 J	1.4 J	1.4 J	1.7 J	1.7 J	2 J	1.6 J		
Perfluorobutanoic Acid (PFBA)	4.3 U	3.5 J	6.1 U	5.6	6.8 U	6.1	7 U	7.2		
Perfluorodecane Sulfonate (PFDS)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluorodecanoic Acid (PFDA)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluorododecanoic Acid (PFDoA)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluoroheptane sulfonate (PFHpS)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluoroheptanoic Acid (PFHpA)	4.7 U	2.6 J	4.1 U	1.1 J	4.3 U	4.5 U	6.4 U	6.5		
Perfluorohexanesulfonic Acid (PFHxS)	4.2 U	2.6 J	4.1 U	1.4 J	4.3 U	3.2 J	4.3 U	2.7 J		
Perfluorohexanoic Acid (PFHxA)	11 U	9.2 U	4.1 U	9.2 U	4.3 U	9.2 U	8.6 U	9.3 U		
Perfluorononanoic Acid (PFNA)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	1.7 J		
Perfluorooctanesulfonamide (PFOSA)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluorooctanesulfonic Acid (PFOS)	11	9.2	6.5	6.4	6.2	5.8	4.2	4.4	10	2.7
Perfluorooctanoic Acid (PFOA)	8.5	6.1	7.2 J	6.7	8.9	6.3	27	40	10	6.7
Perfluoropentanoic Acid (PFPeA)	4.3 U	2.4 J	4.5 UH	4.5 U	4.3 UH	4.5 U	4.3 U	3.5 J		
Perfluorotetradecanoic acid (PFTeDA)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluorotridecanoic acid (PFTrDA)	4.2 U	4.5 U	0.74 J	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Perfluoroundecanoic Acid (PFUnA)	4.2 U	4.5 U	4.1 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U		
Total PFAS	21.7	28.3	16.14	22.6	16.8	24.8	34.4	67.6		

Notes :

U - Concentration not detected at specified limit

J - Estimated Value

Concentrations in **Bold** exceed Guidance Value

Table 3-3

**2022 Field Duplicate Sample Comparisons
Analytical Results
Wellville/Andover Landfill
Wellsville, New York
(mg/L except where noted)**

Parameter	MW17S-1022	DUP1-1022
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Inorganic Compounds

Arsenic	0.01 U	0.01 U
Barium	0.04	0.039
Cadmium	0.005 U	0.005 U
Calcium	76.3	76.8
Chromium	0.01 U	0.01 U
Copper	0.02 U	0.02 U
Iron	0.18	0.21
Lead	0.005 U	0.005 U
Magnesium	49.8	50.2
Manganese	0.047	0.05
Nickel	0.04 U	0.04 U
Potassium	3.6	3.6
Selenium	0.01 U	0.01 U
Sodium	62.7	62.7
Zinc	0.02 U	0.02 U

Per- and Polyfluoralkyl Substances (PFAS)

6:2 Fluorotelomer sulfonate (FtS 6:2)	0.0000046 U	0.00000096 J
8:2 Fluorotelomer sulfonic acid (FtS 8:2)	0.0000046 U	0.0000045 U
N-ethylperfluoro-1-octanesulfonamidoacetic acid	0.0000046 U	0.0000045 U
N-methylperfluoro-1-octanesulfonamidoacetic acid	0.0000046 U	0.0000045 U
Perfluorobutanesulfonic Acid (PFBS)	0.0000016 J	0.0000018 J
Perfluorobutanoic Acid (PFBA)	0.0000072	0.0000071
Perfluorodecane Sulfonate (PFDS)	0.0000046 U	0.00000062 J
Perfluorodecanoic Acid (PFDA)	0.0000046 U	0.0000045 U
Perfluorododecanoic Acid (PFDoA)	0.0000046 U	0.0000045 U
Perfluoroheptane sulfonate (PFHpS)	0.0000046 U	0.0000045 U
Perfluoroheptanoic Acid (PFHpA)	0.0000065	0.0000072
Perfluorohexanesulfonic Acid (PFHxS)	0.0000027 J	0.000003 J
Perfluorohexanoic Acid (PFHxA)	0.0000093 U	0.0000092 U
Perfluorononanoic Acid (PFNA)	0.0000017 J	0.0000015 J
Perfluorooctanesulfonamide (PFOSA)	0.0000046 U	0.0000045 U
Perfluorooctanesulfonic Acid (PFOS)	0.0000044	0.0000043
Perfluorooctanoic Acid (PFOA)	0.00004	0.000039
Perfluoropentanoic Acid (PFPeA)	0.0000035 J	0.0000039 J
Perfluorotetradecanoic acid (PFTeDA)	0.0000046 U	0.0000045 U
Perfluorotridecanoic acid (PFTrDA)	0.0000046 U	0.0000045 U
Perfluoroundecanoic Acid (PFUnA)	0.0000046 U	0.0000045 U

Table 3-3

**2022 Field Duplicate Sample Comparisons
Analytical Results
Wellville/Andover Landfill
Wellsville, New York
(mg/L except where noted)**

Parameter	MW17S-1022	DUP1-1022
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Semi Volatile Organic Compounds

1,4-Dioxane	0.0003 B	0.0003 B
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Volatile Organic Compounds

1,1,1-Trichloroethane	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U
1,1,2-Trichloroethane	0.001 U	0.001 U
1,1-Dichloroethane	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U
1,2-Dibromoethane	0.001 U	0.001 U
1,2-Dichloroethane	0.001 U	0.001 U
1,2-Dichloropropane	0.001 U	0.001 U
2-Butanone (MEK)	0.005 U	0.005 U
2-Hexanone	0.005 U	0.005 U
4-Methyl-2-pentanone	0.005 U	0.005 U
Acetone	0.005 U	0.005 U
Benzene	0.001 U	0.001 U
Bromodichloromethane	0.001 U	0.001 U
Bromoform	0.001 U	0.001 U
Bromomethane	0.001 U	0.001 U
Carbon disulfide	0.001 U	0.001 U
Carbon tetrachloride	0.001 U	0.001 U
Chlorobenzene	0.001 U	0.001 U
Chloroethane	0.001 U	0.001 U
Chloroform	0.001 U	0.001 U
Chloromethane	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.02	0.02
cis-1,3-Dichloropropene	0.001 U	0.001 U
Dibromochloromethane	0.001 U	0.001 U
Dichloromethane (Methylene chloride)	0.001 U	0.001 U
Ethyl benzene	0.001 U	0.001 U
m&p-Xylene	0.002 U	0.002 U
o-Xylene	0.001 U	0.001 U
Styrene	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U
Toluene	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U
trans-1,3-Dichloropropene	0.001 U	0.001 U
Trichloroethene	0.0081	0.0084
Vinyl chloride	0.001 U	0.001 U

Notes:

U - Concentration not detected at specified detection limit.

B - Analyte was also detected in associated method blank.

Table 3-4

2022 Equipment Blank Analytical Results
 Wellville/Andover Landfill
 Wellsville, New York
 (mg/L except where noted)

Parameter	EB1-1022
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Inorganic Compounds

Arsenic	0.01 U
Barium	0.02 U
Cadmium	0.005 U
Calcium	1 U
Chromium	0.01 U
Copper	0.02 U
Iron	0.1 U
Lead	0.005 U
Magnesium	1 U
Manganese	0.01 U
Nickel	0.04 U
Potassium	2 U
Selenium	0.01 U
Sodium	1 U
Zinc	0.02 U

Volatile Organic Compounds

1,1,1-Trichloroethane	0.001 U
1,1,2,2-Tetrachloroethane	0.001 U
1,1,2-Trichloroethane	0.001 U
1,1-Dichloroethane	0.001 U
1,1-Dichloroethene	0.001 U
1,2-Dibromoethane	0.001 U
1,2-Dichloroethane	0.001 U
1,2-Dichloropropane	0.001 U
2-Butanone (MEK)	0.005 U
2-Hexanone	0.005 U
4-Methyl-2-pentanone	0.005 U
Acetone	0.005 U
Benzene	0.001 U
Bromodichloromethane	0.001 U
Bromoform	0.001 U
Bromomethane	0.001 U
Carbon disulfide	0.001 U
Carbon tetrachloride	0.001 U
Chlorobenzene	0.001 U
Chloroethane	0.001 U
Chloroform	0.001 U
Chloromethane	0.001 U

Table 3-4

2022 Equipment Blank Analytical Results
Wellville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	EB1-1022
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Volatile Organic Compounds (con't)

cis-1,2-Dichloroethene	0.001 U
cis-1,3-Dichloropropene	0.001 U
Dibromochloromethane	0.001 U
Dichloromethane (Methylene chloride)	0.001 U
Ethyl benzene	0.001 U
m&p-Xylene	0.002 U
o-Xylene	0.001 U
Styrene	0.001 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
trans-1,2-Dichloroethene	0.001 U
trans-1,3-Dichloropropene	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

Notes :

U - Concentration not detected at specified limit

Table 4-1

2022 Surface Water Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	SWS-1 4/22/2020	SWS-1 4/20/2021	SWS-1 5/18/2022	Class C Standard
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Field Parameters

Dissolved Oxygen	12.33	8.97		
Field pH (std. units)	7.95	7.71	7.75	
ORP (mV)	75.4	197.9	175.6	
Specific Conductivity (us/cm)	311.5	270.5	628.1	
Temperature (deg. C)	7.2	8.3	13	
Turbidity (NTU)	2.3	3.36	2.08	

Inorganic Compounds

Arsenic	0.01 U	0.01 U	0.01 U	
Barium	0.022	0.02 U	0.039	
Cadmium	0.005 U	0.005 U	0.005 U	
Calcium	35.8	28.4	58.6	
Chromium	0.01 U	0.01 U	0.01 U	
Copper	0.02 U	0.02 U	0.02 U	
Iron	0.13	0.22	0.29	
Lead	0.05 U	0.05 U	0.05 U	0.008
Magnesium	13	9.2	17.9	
Manganese	0.04	0.017	0.184	
Nickel	0.04 U	0.04 U	0.04 U	0.0082
Potassium	2 U	2 U	2.4	
Selenium	0.01 U	0.01 U	0.01 U	
Sodium	16	16.4	55.4	
Zinc	0.02 U	0.02 U	0.034	

Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.005 U	0.005 U	
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U	0.005 U	
1,1,2-Trichloroethane	0.005 U	0.005 U	0.005 U	
1,1-Dichloroethane	0.005 U	0.005 U	0.005 U	
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	
1,2-Dibromoethane	0.005 U	0.005 U	0.005 U	
1,2-Dichloroethane	0.005 U	0.005 U	0.005 U	
1,2-Dichloropropane	0.005 U	0.005 U	0.005 U	
2-Butanone (MEK)	0.01 U	0.01 U	0.01 U	
2-Hexanone	0.01 U	0.01 U	0.01 U	
4-Methyl-2-pentanone	0.01 U	0.01 U	0.01 U	
Acetone	0.01 U	0.01 U	0.01 U	
Benzene	0.005 U	0.005 U	0.005 U	0.01
Bromodichloromethane	0.005 U	0.005 U	0.005 U	
Bromoform	0.005 U	0.005 U	0.005 U	
Bromomethane	0.005 U	0.005 U	0.005 U	

Table 4-1

2022 Surface Water Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	SWS-1 4/22/2020	SWS-1 4/20/2021	SWS-1 5/18/2022	Class C Standard
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Volatile Organic Compounds (con't)

Carbon disulfide	0.01 U	0.01 U	0.01 U	
Carbon tetrachloride	0.005 U	0.005 U	0.005 U	
Chlorobenzene	0.005 U	0.005 U	0.005 U	0.005
Chloroethane	0.005 U	0.005 U	0.005 U	
Chloroform	0.005 U	0.005 U	0.005 U	
Chloromethane	0.005 U	0.005 U	0.005 U	
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	
cis-1,3-Dichloropropene	0.005 U	0.005 U	0.005 U	
Dibromochloromethane	0.005 U	0.005 U	0.005 U	
Dichloromethane (Methylene chloride)	0.005 U	0.005 U	0.005 U	0.2
Ethyl benzene	0.005 U	0.005 U	0.005 U	
m&p-Xylene	0.005 U	0.005 U	0.005 U	
o-Xylene	0.005 U	0.005 U	0.005 U	
Styrene	0.005 U	0.005 U	0.005 U	
Tetrachloroethene	0.005 U	0.005 U	0.005 U	
Toluene	0.005 U	0.005 U	0.005 U	6
trans-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	
trans-1,3-Dichloropropene	0.005 U	0.005 U	0.005 U	
Trichloroethene	0.005 U	0.005 U	0.005 U	0.04
Vinyl chloride	0.005 U	0.005 U	0.005 U	

General Chemistry

Alkalinity	131	103	190	
Ammonia Nitrogen	0.05 U	0.05 U	0.05 U	2
Biochemical Oxygen Demand	2 U	2 U	2 U	
Bromide	1 U	1 U	1 U	
Chemical Oxygen Demand	17.5	20.6	30.7	
Chloride	29	32.4	110	
Color (True) (C.U.)	35	48	35	
Nitrate Nitrogen	1 U	1 U	1 U	
pH of Color Analysis	7.57 *	8.05	7.74	
Sulfate	2 U	2 U	2.1	
Total Dissolved Solids	197	169	388	500
Total Kjeldahl Nitrogen	0.35	0.45	0.59	
Total Organic Carbon (TOC)	5.7	7.9	8.7	
Total Phenolics	0.005 U	0.005 U	0.005 U	

Notes:

Class C Standard - NYSDEC Class C Surface Water Standard

Concentrations are within Class C Standards

U - Concentration not detected at specified detection limit

* - Analysis was performed out of hold time

Table 5-1

2022 Leachate Sump Manhole Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	LS-1 10/21/2020	LS-1 10/21/2021	LS-1 10/20/2022	MH-32 10/16/2020	MH-32 10/20/2021	MH-32 10/24/2022	MH-33 10/16/2020	MH-33 10/20/2021	MH-33 10/24/2022	Class GA Standard	Guidance Value GA
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Field Parameters

Field pH (std. units)	7.55	6.58	7.72	7.25	6.17	7.56	7.45	6.36	7.56	6.5 - 8.5	
ORP (mV)	122.8	256.4	69	108.9	44.1	-0.5	39.2	152.9	6.6		
Specific Conductivity (us/cm)	901	487	827	593.3	417.5	609.7	549	341.1	658		
Temperature (deg. C)	14.8	14.3	10.6	11.8	13.8	14	11.2	14.1	12.9		
Turbidity (NTU)	49.5	5.58	5.08	24.7	13	5.37	26.8	9.77	10.4	5	

Inorganic Compounds

Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.0108	0.01 U	0.01 U	0.01 U	0.01 U	0.025	
Barium	0.117	0.066	0.094	0.081	0.076	0.1	0.048	0.0481	0.049	1	
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005	
Calcium	122	81.1	119	96.9	76	105	99	54.6	96.6		
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05	
Copper	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.2	
Iron	10.9	2.13	0.73	2.6	11.6	0.88	2.79	2.43	1.46	0.3	
Lead	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.005 U	0.025	
Magnesium	33.8	18.2	32.9	11.5	13.2	19.6	20.8	15.5	22		35
Manganese	2.8	2.08	0.816	0.438	2.25	0.405	0.368	0.939	0.567	0.3	
Nickel	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.1	
Potassium	4.7	2.3	4.7	11.4	2 U	5.6	2 U	2 U	2 U		
Selenium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01	
Sodium	27.6	6.6	30.3	8.4	1.83	7.4	9.5	2.37	6.8	20	
Zinc	0.02 U	0.02 U	0.02 U	0.02 U	0.0251	0.02 U	0.02 U	0.02 U	0.02 U		2

Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
1,1,2,2-Tetrachloroethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
1,1,2-Trichloroethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.001	
1,1-Dichloroethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
1,1-Dichloroethene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
1,2-Dibromoethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
1,2-Dichloroethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.0006	
1,2-Dichloropropane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.001	
2-Butanone (MEK)	0.01 U	0.025 U	0.005 U	0.1 U	0.1 U	0.013 U	0.01 U	0.01 U	0.005 U	0.005	0.05
2-Hexanone	0.01 U	0.025 U	0.005 U	0.1 U	0.1 U	0.013 U	0.01 U	0.01 U	0.005 U	0.005	0.05
4-Methyl-2-pentanone	0.01 U	0.025 U	0.005 U	0.1 U	0.1 U	0.013 U	0.01 U	0.01 U	0.005 U	0.005	

Table 5-1

2022 Leachate Sump Manhole Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	LS-1 10/21/2020	LS-1 10/21/2021	LS-1 10/20/2022	MH-32 10/16/2020	MH-32 10/20/2021	MH-32 10/24/2022	MH-33 10/16/2020	MH-33 10/20/2021	MH-33 10/24/2022	Class GA Standard	Guidance Value GA
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Volatile Organic Compounds (con't)

Acetone	0.01 U	0.025 U	0.005 U	0.1 U	0.1 U	0.013 U	0.01 U	0.01 U	0.005 U	0.005	0.05
Benzene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.001	
Bromodichloromethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	0.05
Bromoform	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	0.05
Bromomethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
Carbon disulfide	0.01 U	0.025 U	0.001 U	0.1 U	0.1 U	0.0025 U	0.01 U	0.01 U	0.001 U	0.005	0.06
Carbon tetrachloride	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
Chlorobenzene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
Chloroethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
Chloroform	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.007	
Chloromethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
cis-1,2-Dichloroethene	0.005 U	0.47	0.0026	1.5	8.8 D	0.26	0.005 U	0.031	0.001	0.005	
cis-1,3-Dichloropropene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.0004	
Dibromochloromethane	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	0.05
Dichloromethane (Methylene chloride)	0.005 U	0.013 U	0.001 U	0.21	0.51	0.016	0.005 U	0.005 U	0.001 U	0.005	
Ethyl benzene	0.005 U	0.013 U	0.001 U	0.05 U	0.072	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
m&p-Xylene	0.005 U	0.013 U	0.002 U	0.05 U	0.05 U	0.005 U	0.005 U	0.005 U	0.002 U	0.005	
o-Xylene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
Styrene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
Tetrachloroethene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
Toluene	0.005 U	0.013 U	0.001 U	0.05 U	0.15	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
trans-1,2-Dichloroethene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.005	
trans-1,3-Dichloropropene	0.005 U	0.013 U	0.001 U	0.05 U	0.05 U	0.0025 U	0.005 U	0.005 U	0.001 U	0.0004	
Trichloroethene	0.005 U	0.013 U	0.001 U	0.57	0.37	0.14	0.005 U	0.005 U	0.001 U	0.005	
Vinyl chloride	0.005 U	0.015	0.001 U	0.05 U	0.31	0.0028	0.005 U	0.005 U	0.001 U	0.002	

General Chemistry

Nitrate Nitrogen				1 U	1 U	1 U	1 U	1 U	1 U	10	
Total Dissolved Solids				353	258	405	372	216	360	500	

Notes:

Class GA Standard - NYSDEC Class GA Groundwater Standard

Concentrations in **bold** exceed Class GA Standards.

U - Concentration not detected at specified detection limit

D - Concentration is a result of a dilution see lab report for further explanation.

Table 6-1

Fall 2022 Air Monitoring Results
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Point	Date	PID (ppm)	O ₂ %	LEL %
V-1	10/21/2022	0.0	20.9	0
V-2	10/21/2022	0.1	20.9	5
V-3	10/21/2022	0.2	20.9	0
V-4	10/21/2022	1.3	20.9	9
V-5	10/21/2022	0.1	20.9	0
V-6	10/21/2022	1.1	20.9	4
V-7	10/21/2022	0.1	20.9	0
V-8	10/21/2022	2.3	20.9	12
V-9	10/21/2022	4.6	20.9	8
V-10	10/21/2022	0.0	20.9	0
V-11	10/21/2022	2.0	20.9	15
V-12	10/21/2022	0.0	20.9	0
V-13	10/21/2022	0.0	20.9	0
V-14	10/21/2022	0.1	20.9	0
V-15	10/21/2022	0.0	20.9	0
V-16	10/21/2022	0.0	20.9	0
V-17	10/21/2022	0.3	20.9	0
V-18	10/21/2022	0.6	20.9	20
V-19	10/21/2022	0.0	20.9	0
V-20	10/21/2022	0.0	20.9	0
V-21	10/21/2022	0.0	20.9	0
L-16	10/21/2022	0.8	20.1	25
L-17	10/21/2022	1.3	18.9	72
L-19	10/21/2022	3.2	14.2	>99
L-21	10/21/2022	0.3	20.9	8
L-23	10/21/2022	3.4	19.6	>99
L-25	10/21/2022	3.1	8.9	>99
L-27	10/21/2022	2.0	17.0	>99
L-29	10/21/2022	29.6	19.2	>99
L-31	10/21/2022	0.0	20.9	0
MH-6	10/21/2022	0.6	20.9	0
MH-7	10/21/2022	0.0	20.9	0
MH-8	10/21/2022	2.2	20.9	0
MH-9	10/21/2022	0.5	20.9	0
MH-10	10/21/2022	0.3	20.9	0
MH-11	10/21/2022	1.4	20.9	0
MH-12	10/21/2022	1.3	20.9	0
MH-13	10/21/2022	0.1	20.9	0
MH-32	10/21/2022	0.0	20.9	0
MH-33	10/21/2022	0.3	20.9	0
Upwind	10/21/2022	0.0	20.9	0
Downwind-1	10/21/2022	0.0	20.9	0
Downwind-2	10/21/2022	0.0	20.9	0
Downwind-3	10/21/2022	0.0	20.9	0

(1)- Denotes Cap Ajar
BG - Background

BG PID: 0.0
BG LEL: 0
BG O₂: 20.9

Weather: 56dg Sunny
Winds: Steady breeze from the west
Meter(s): Q-RAE 3 4gas. & PID
Monitored By: K Dye

Oxygen: 19.5% - 23.5%
LEL: ≤ 10%
CO: ≤ 25 ppm
H₂S: ≤ 10 ppm

Table 7-1

**Spring and Fall 2022
Residential Water Supply Contact and Sampling Summary
Wellsville/Andover Landfill**

Name	Mailing Address	Physical Address of Sampling Location	Phone No.	Location ID	Water Source	Telephone Contact		Sampling Approved	Sampling Location	Sample Collection	
						Date	Time			Date	Time
Mr. John Carl	3987 Snyder Rd Wellsville, NY 14895	3987 Snyder Rd Wellsville, NY 14895	585-610-8581	WAL-1	Well ³	10/19/2022	1309	Yes-call back 10/20	Kitchen Sink	10/21/2022	1325
Mr. Phil Rosini	72 Havenshire Rd Rochester, NY 14625	3899 Snyder Road Wellsville, NY	(C) 585-754-6328 (H) 585-671-3831	WAL-2	Well ^{1,2} 150 ft deep	10/19/2022	1310	Yes-call back 10/20	Kitchen Sink	1/21/2022	935
Adam Fantrazzo ⁴	4011 Duffy Hollow Rd Wellsville, NY 14895	4011 Duffy Hollow Rd Wellsville, NY 14895	585-296-0007	WAL-5	Spring ³	10/24/2022 Property Check		No Contact ⁴	Kitchen Sink	NA	NA
Mrs. Barbara LaDue	3914 Snyder Rd. Wellsville, NY 14895	3914 Snyder Rd. Wellsville, NY 14895	(H) 585-593-7200 (C) 585-593-8524	WAL-19	Spring ²	5/17/2022	1015	Yes	Post - Kitchen Sink	5/18/2022	1010
									Inter - Between Filters		1020
									Pre - Before Filters		1030
						10/19/2022	1311	Yes-call back 10/20	Post - Kitchen Sink	10/20/2022	1010
									Inter - Between Filters		1015
									Pre - Before Filters		1020

Notes:

¹ Water source information from *Remedial Investigation Report, Wellsville-Andover Landfill Site*, November 1993, prepared by Ecology & Environment

² Water source information from *Phase II State Superfund Investigation Report, Wellsville-Andover Landfill Site*, December 1986, prepared by Malcolm Pirnie

³ Water Source from land owner

⁴ Last known owner, property appears vacant

NA - Not applicable

Table 7-2

2022 Residential Water Supply Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	WAL1 10/21/2022	WAL2 11/21/2022	WAL-19Pre 5/18/2022	WAL-19Inter 5/18/2022	WAL-19Post 5/18/2022	WAL-19Pre 10/20/2022	WAL-19Inter 10/20/2022	WAL-19Post 10/20/2022	Class GA Standard	NYSDOH MCL
-----------	--------------------	--------------------	------------------------	--------------------------	-------------------------	-------------------------	---------------------------	--------------------------	----------------------	---------------

Inorganic Compounds

Arsenic	0.0025	0.001 U							0.025	0.01
Barium	0.0627	0.032							1	2
Cadmium	0.001 U	0.001 U							0.005	0.005
Calcium	42.3	41.2								
Chromium	0.01 U	0.01 U							0.05	0.1
Copper	0.0019	0.0028							0.2	1.3
Iron	0.1 U	0.48							0.3	0.3
Lead	0.001 U	0.001 U							0.025	0.015
Magnesium	14	13.3								
Manganese	0.099	0.569							0.3	0.3
Nickel	0.001 U	0.001 U							0.1	0.1
Potassium	2 U	2 U								
Selenium	0.002 U	0.002 U							0.01	0.05
Sodium	9.4	56.1							20	
Zinc	0.037	0.02 U								5

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,1,2,2-Tetrachloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,1,2-Trichloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001	0.005
1,1-Dichloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,1-Dichloroethene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,2,3-Trichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00004	0.005
1,2,4-Trimethylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,2-Dichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.003	0.005
1,2-Dichloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0006	0.005
1,2-Dichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001	0.005
1,3,5-Trimethylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,3-Dichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.003	0.005
1,3-Dichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,4-Dichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.003	0.005
2,2-Dichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
2-Chlorotoluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
4-Chlorotoluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Benzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001	0.005
Bromobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Bromochloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Bromodichloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.08
Bromoform	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.08

Table 7-2

2022 Residential Water Supply Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	WAL1 10/21/2022	WAL2 11/21/2022	WAL-19Pre 5/18/2022	WAL-19Inter 5/18/2022	WAL-19Post 5/18/2022	WAL-19Pre 10/20/2022	WAL-19Inter 10/20/2022	WAL-19Post 10/20/2022	Class GA Standard	NYSDOH MCL
Volatile Organic Compounds (con't)										
Bromomethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Carbon tetrachloride	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Chlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Chloroethane			0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Chloroform	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.007	0.08
Chloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
cis-1,2-Dichloroethene	0.0005 U		0.0019	0.0005 U	0.0005 U	0.0016	0.0005 U	0.0005 U	0.005	0.005
cis-1,3-Dichloropropene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0004	0.005
Dibromochloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.08
Dibromomethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Dichlorodifluoromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Dichloromethane (Methylene chloride)	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Ethyl benzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Isopropylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
m&p-Xylene	0.001 U		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005	0.005
Methyl tert-butyl ether (MTBE)	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.01
n-Butylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
n-Propylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
o-Xylene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
p-Isopropyltoluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
sec-Butylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Styrene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
tert-Butylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Tetrachloroethene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Toluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
trans-1,2-Dichloroethene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
trans-1,3-Dichloropropene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0004	0.005
Trichloroethene	0.0005 U		0.0028	0.0005 U	0.0005 U	0.0026	0.0005 U	0.0005 U	0.005	0.005
Trichlorofluoromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Vinyl chloride	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.002	0.002
1,2,3-Trichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.005
1,2,3-Trichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,2,4-Trichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.005
1,2,4-Trichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Hexachlorobutadiene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005	0.005
Naphthalene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.05

Notes:Concentrations in **bold** exceed Class GA Standards and or NYSDOH MCL**U** - Concentrations not detected at specified limit

Table 8-1

**2022 Leachate Collection System Cleaning Summary
Wellsville-Andover Landfill Site**

Lateral Clean-Out	Associated Manhole	Date Cleaned	Length Jetted (ft)	Approximate Gallons Jetted	Manhole Observations During Lateral Jetting - distances and volumes are approximate
L-16	Leachate Sump	6/1/2022	Complete Lateral	60	Began jetting @ cleanout L16 at 0825, with some resistance towards end of lateral from sed build up. Water was turbid flowing into sump. No refusal in jetting through. No vacuum operations required at this location.
L-17	MH-6	6/1/2022 6/2/2022	Complete Lateral	115	Began jetting @ cleanout L17 at 0914 with some resistance near V2 vent. Encountered refusal at approx. 400 ft down lateral with light flow, turbid grayish water into MH-6. Returned on 6/2 and jetted back up from manhole 6 towards cleanout 185 ft. Minimal flow back into manhole with some red-brown / dark gray liquid. Then vacuum approx. 5" of sediment from bottom of manhole 6.
L-19	MH-7	6/1/2022 6/2/2022	Complete Lateral	100	Began jetting @ cleanout L19 at 0938, approx.360 ft to refusal with light flow and dark turbid water into manhole 7. Returned on 6/2 at 1017 and Jetted approx. 265ft from manhole 7 up lateral towards cleanout with light flow and gray liquid back into manhole. Then vacuum out approx. 5" sludge from bottom of manhole 7.
L-21	MH-8	6/1/2022 6/2/2022	400 ft from cleanout, 245 ft from manhole	110	Began jetting @ cleanout L21 at 1014, approx. 400 ft to refusal with no visible flow into MH-8. At 1638 jetted back up lateral from MH-8 approx. 245 ft with no visible flow back to manhole, although there was dark gray clay like matter on hose as it was pulled out. Returned on 6/2 and vacuumed out approx. 4" of sediment from MH-8.
L-23	MH-9	6/1/2022 6/2/2022	Complete Lateral	130	Began jetting @ cleanout L23 at 1033. am, approx. 370ft to refusal with no visible flow into MH-9. At 1618 jetted back up lateral from MH-9 approx. 270ft with no visible flow back to manhole, although there was dark gray clay like matter on hose as it was pulled out. Returned on 6/2 and vacuumed out approx. 4" of sediment from MH-9.
L-25	MH-10	6/1/2022	390 ft from cleanout, 275 ft from manhole	140	Began jetting @ cleanout L25 at 1112, approx. 390 ft to refusal with minimal flow into MH-10. At 1554 jetted back up lateral from MH-10 approx. 275ft with minimal flow back to manhole, with light gray turbid water. No vacuum operation required at this location.
L-27	MH-11	6/1/2022 6/2/2022	200 ft from cleanout, 250 ft from manhole	85	Began jetting @ cleanout L27 at 1130, approx. 200 ft to refusal. Decided to change jetting tip and try again, hit hard obstruction. No visible flow into MH-11. At 1532 jetted back up lateral from MH-11 approx. 250 ft with minimal flow back to manhole, turbid gray water. Returned on 6/2 and vacuum approx. 3" of sediment from MH-11.
L-29	MH-12	6/1/2022	300 ft up from MH-12	50	Began jetting @ MH-12 at 1112. pm up lateral approx. 300 ft to hard blockage. Jetting from lateral not attempted as previously determined to be obstructed approx. 17 ft from cleanout. No vacuum operation required at this location.
L-31	MH-13	6/1/2022	300 ft from cleanout, 200 ft from manhole	170	Began jetting @ cleanout L31 at 1148, approx. 390 ft to refusal with no visible flow into MH-13. At 1446 jetted back up lateral, at MH-13, at 200 ft encountered blockage and made it past to approx. 300ft with minimal flow back to manhole, slow cloudy flow. Only about an 1" of sediment in MH-13, no vacuum at this location.
Pump Station Inlet Manhole		6/2/2022	Vacuum Complete	10	920 Add water to slurry sediment in bottom of manhole while vacuuming out approx. 1.5 ft thick sediment from bottom of manhole.
Manhole Trunk Line		6/2/2022	Complete Trunk	180	Water jet trunk line: from MH-6 to LS-1; then from MH-6 to MH-7; then from MH-7 back to MH-6; then from MH-7 to MH-8; from MH-8 back to MH-7; then from MH-8 to MH-9; from MH-9 back to MH-8 and straight through to MH-10; from MH-10 to MH-11. Jetting back from MH-11 approx.34-36 ft hit refusal. Continued to jetting from MH-11 straight through to MH-12 and from MH-12 straight through to MH-13.

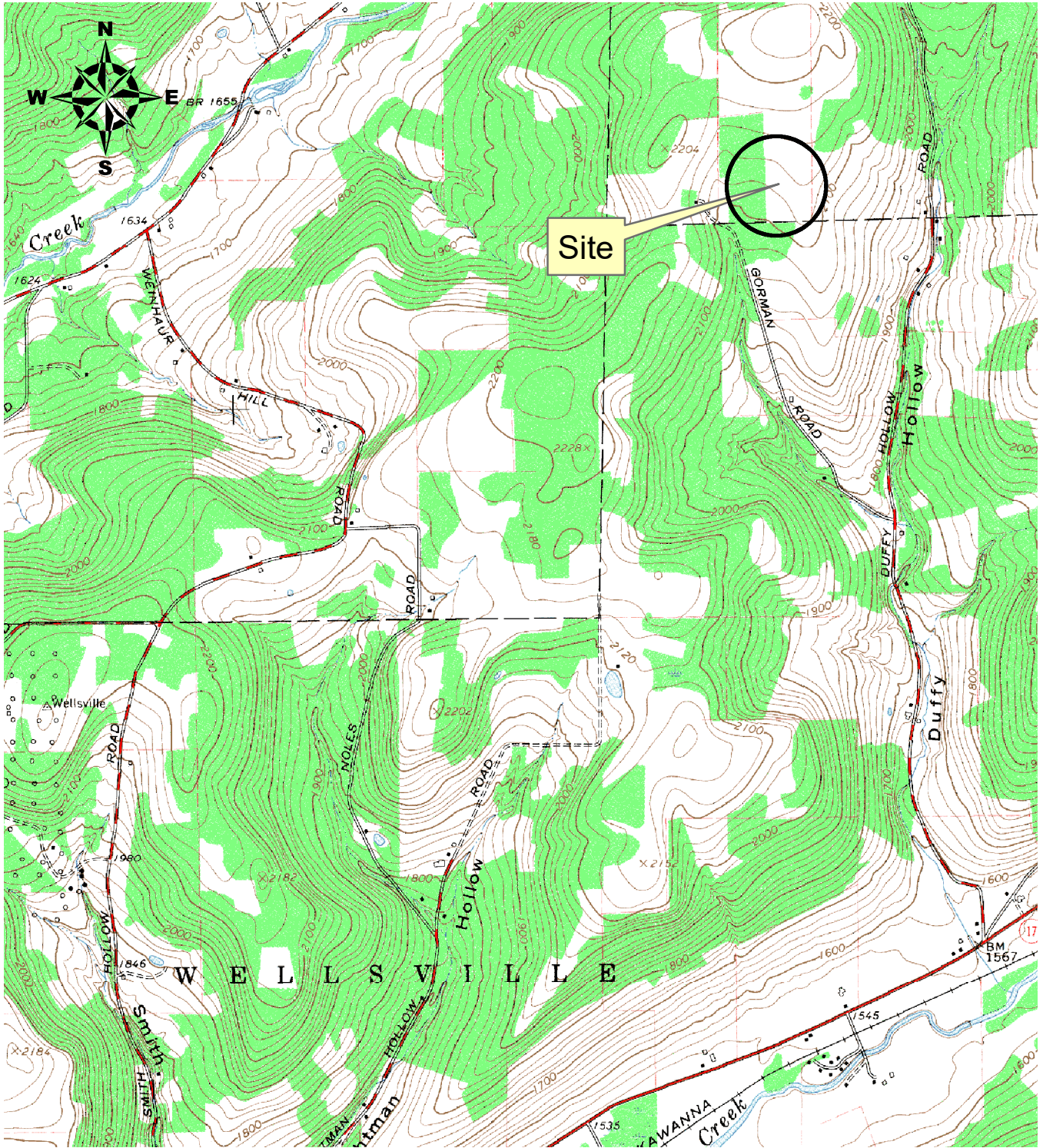
Notes:

- 1) Laterals and clean-outs listed in order from South to North
- 2) Associated manhole means the manhole located at the downstream end of the lateral (i.e. Leachate Sump is downstream end of lateral with clean-out L-16 at upstream end).
- 3) Lateral L-29 to MH-12 previously determined not continuous and is not intended to be water jetted.

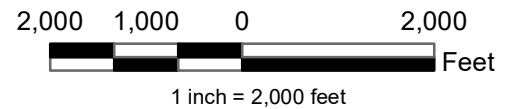
Figures

WELLSVILLE-ANDOVER LANDFILL SITE LOCATION (902004)

Snyder Road Wellsville, New York



SOURCE: WELLSVILLE NORTH, USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, DATED 1965.
 NOTE: GORMAN ROAD IS NOW SNYDER ROAD.

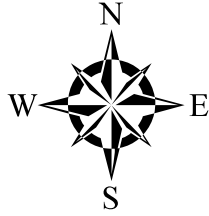


ON-SITE GEOLOGICAL SERVICES, D.P.C.
 72 Railroad Avenue Wellsville, NY14895

FIGURE NO.	1
PROJECT	WAL
DOCUMENT	Annual Report
FILE NO.	Site_Loc.mxd

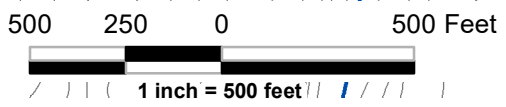
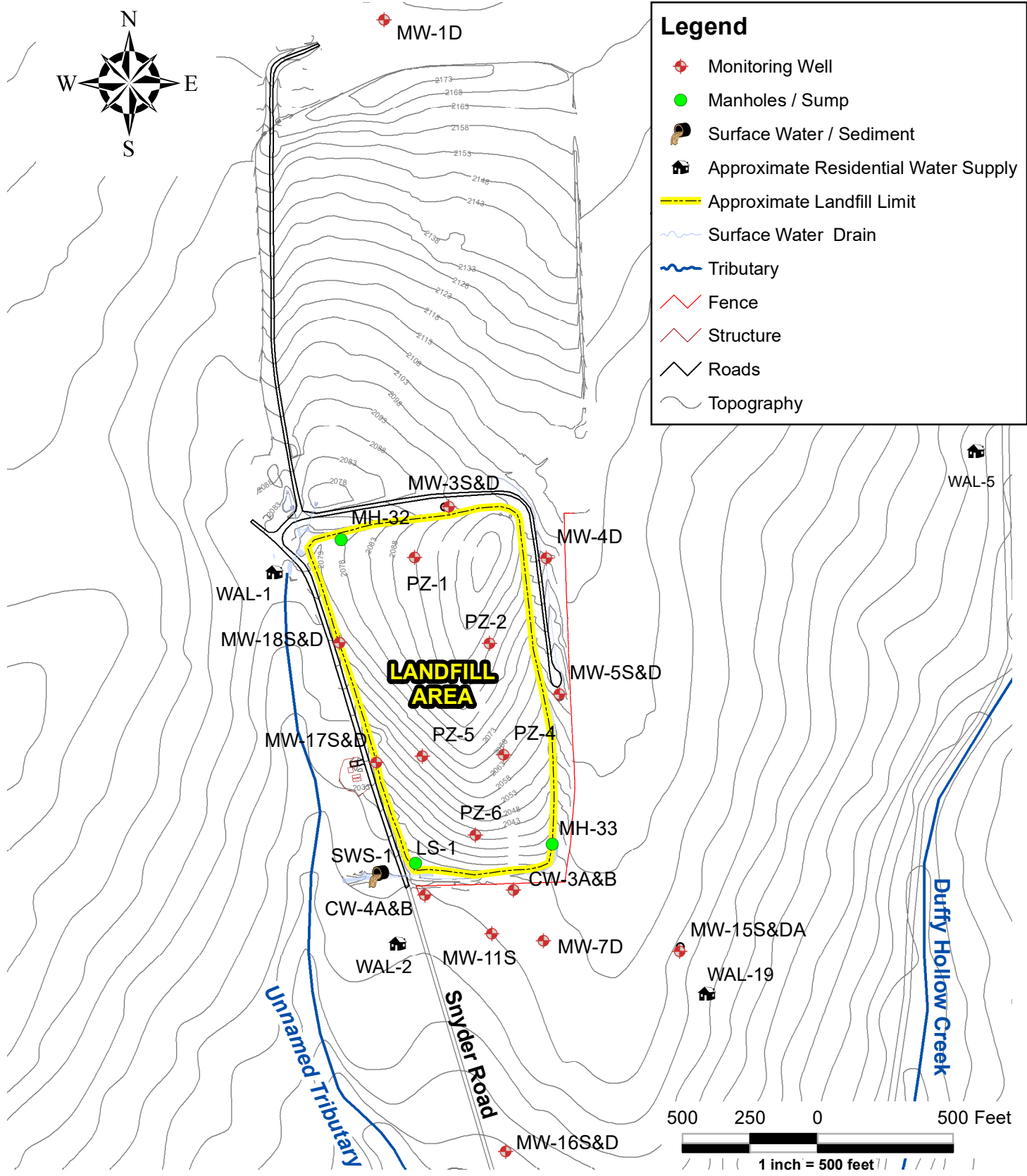
2022 MONITORING LOCATIONS

Wellsville-Andover Landfill Snyder Road Wellsville, New York



Legend

- ◆ Monitoring Well
- Manholes / Sump
- Surface Water / Sediment
- Approximate Residential Water Supply
- Approximate Landfill Limit
- Surface Water Drain
- Tributary
- Fence
- Structure
- Roads
- Topography



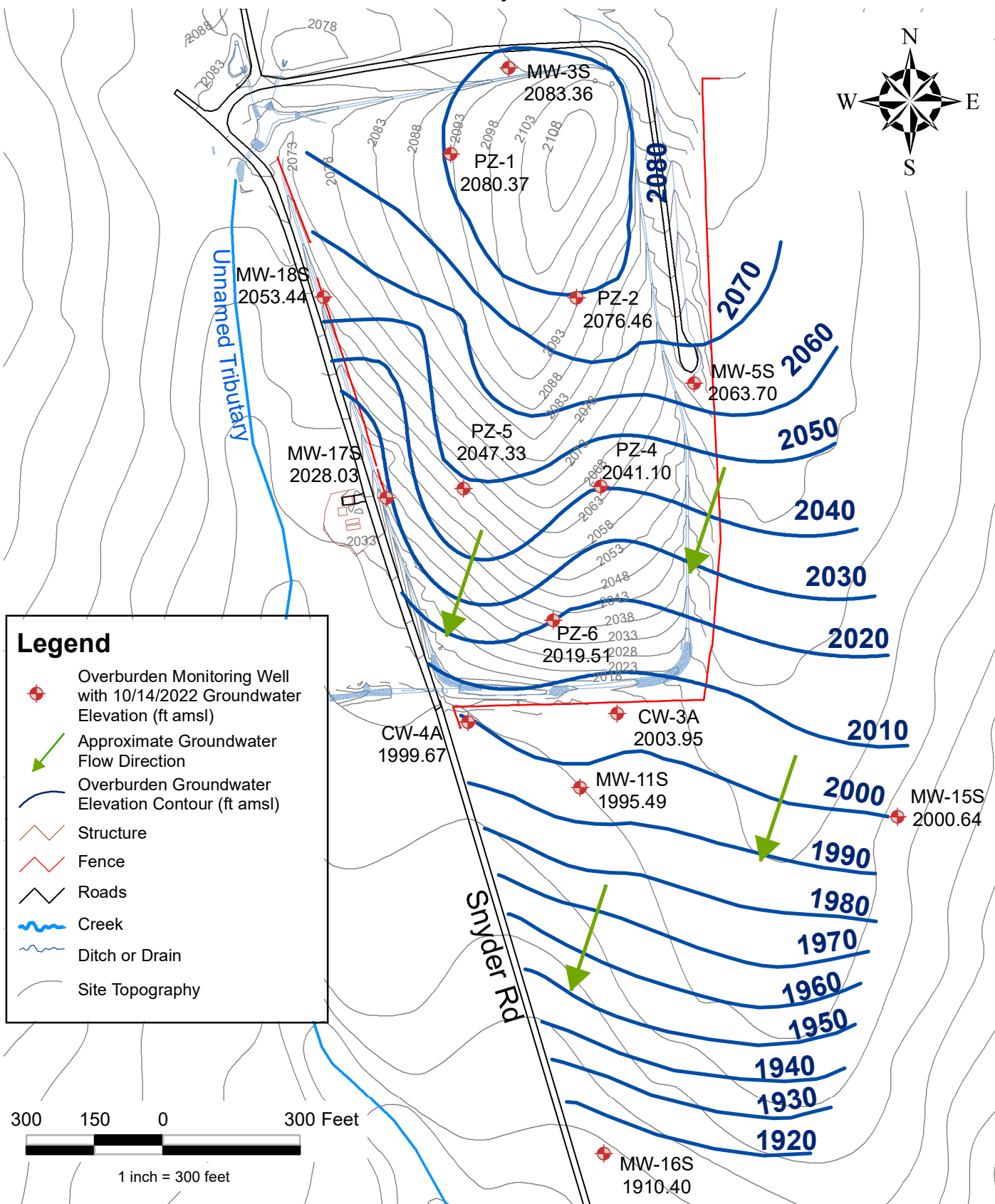
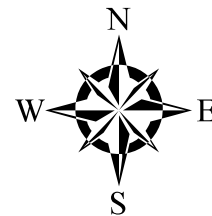
ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	2
PROJECT	WAL
DOCUMENT	2022 Annual Report
FILE NO.	Fig 2.mxd

OCTOBER 14, 2022 OVERBURDEN MONITORING WELL POTENTIOMETRIC MAP

Wellsville-Andover Landfill Snyder Road Wellsville, New York

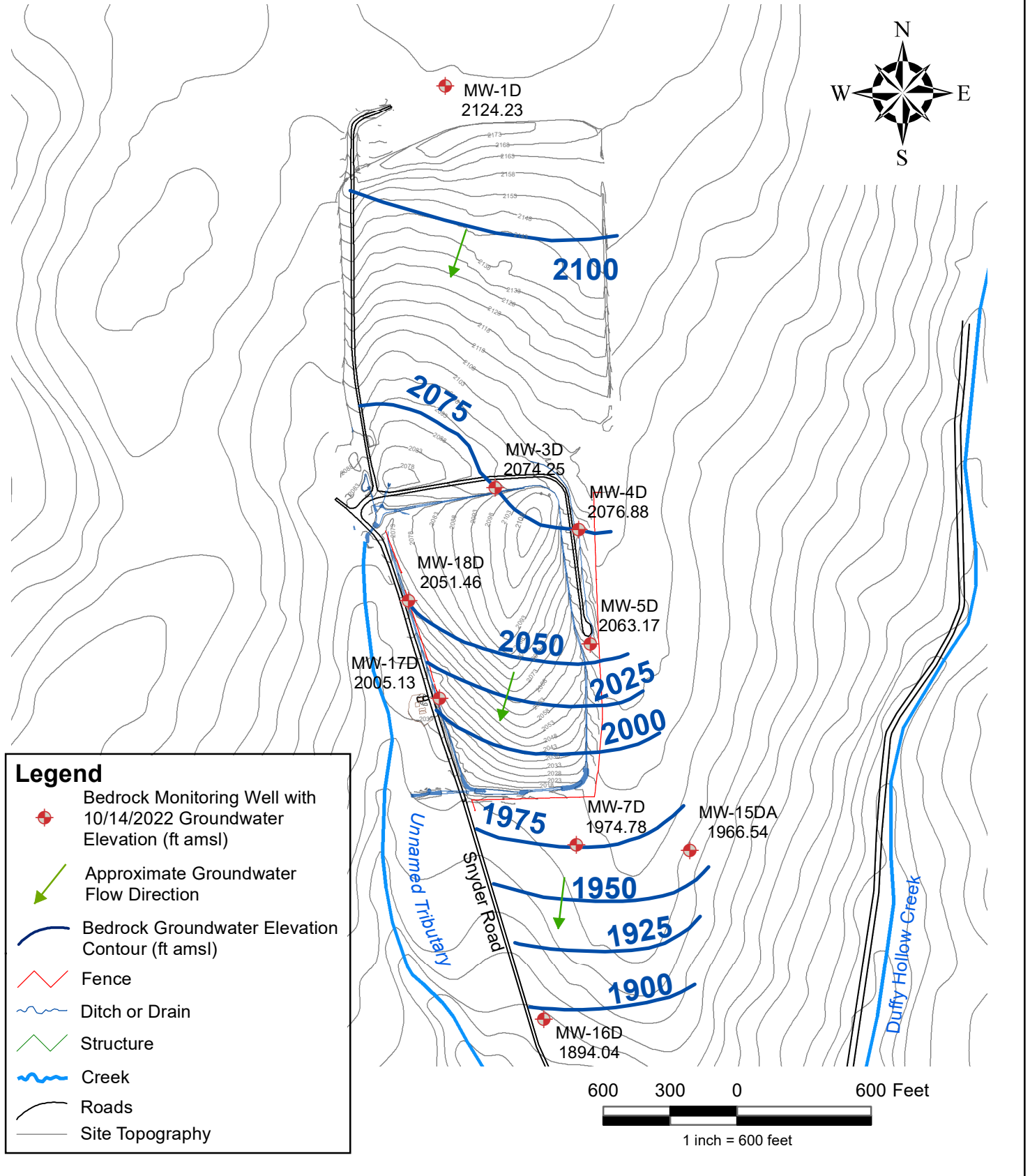


ON-SITE GEOLOGICAL SERVICES, D.P.C
 72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	3
PROJECT	WAL
DOCUMENT	2022 Annual Report
FILE NO	Fig 3 1022 OB.mxd

OCTOBER 14, 2022 BEDROCK MONITORING WELL POTENTIOMETRIC MAP

Wellsville-Andover Landfill Snyder Road Wellsville, New York

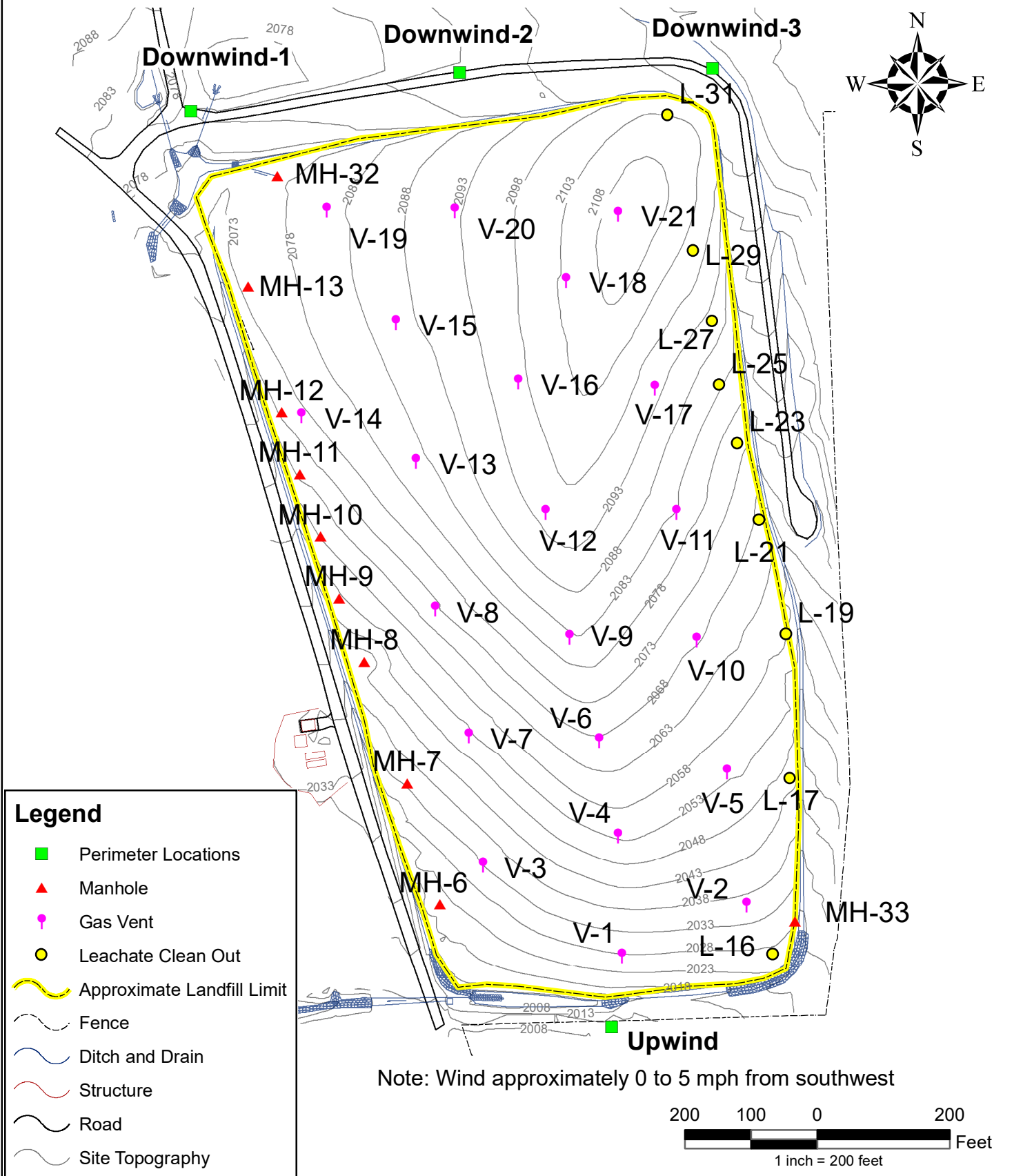


ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue Wellsville, NY 14895

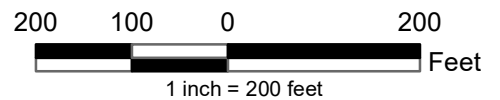
FIGURE NO.	4
PROJECT	WAL
DOCUMENT	2022 Annual Report
FILE NO	Fig 4 1022 BR.mxd

OCTOBER 21, 2022 AIR MONITORING LOCATIONS
 Wellsville-Andover Landfill Snyder Road Wellsville, New York



Legend

- Perimeter Locations
- ▲ Manhole
- Gas Vent
- Leachate Clean Out
- Approximate Landfill Limit
- Fence
- Ditch and Drain
- Structure
- Road
- Site Topography



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	5
PROJECT	WAL
DOCUMENT	2022 ANNUAL RPT
FILE NO.	FIG 5.MXD

Appendix A

**NYSDEC Site Management
Periodic Review Report
Certification**



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



Site Details

Site No. 902004

Box 1

Site Name Wellsville-Andover Landfill

Site Address: Snyder Hill Road Zip Code: 14895
 City/Town: Wellsville
 County: Allegany
 Site Acreage: 19.000

Reporting Period: February 15, 2022 to February 15, 2023

- | | YES | NO |
|---|-------------------------------------|-------------------------------------|
| 1. Is the information above correct? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

- | | | |
|--|--------------------------|-------------------------------------|
| 5. Is the site currently undergoing development? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|-------------------------------------|

Box 2

- | | YES | NO |
|--|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?
Closed Landfill | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs in place and functioning as designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

IF THE ANSWER TO EITHER QUESTION 6 OR 7 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 along with this form to address these issues.

 Signature of Owner, Remedial Party or Designated Representative

 Date

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
214.-1-2.1	VILLAGE OF WELLSVILLE	Ground Water Use Restriction Monitoring Plan O&M Plan

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
214.-1-2.1	Cover System Fencing/Access Control Leachate Collection

Per Site O&M Manual (11/01/1997), Environmental Control Systems:

- Cover System.
- Leachate Collection and Storage System.
- Gas Venting System.
- Storm Water System.
- Groundwater Monitoring System; and
- Facility Access System (i.e., Access Roads and gates).

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 complete.

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 along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 902004

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.

I Dean Arnold at 200 Bolivar Road Wellsville, NY 14895,
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

3-16-2023
Date

EC CERTIFICATIONS

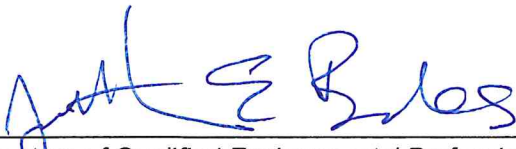
Box 7

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.

I Jonathan Brandes, P.G. at 72 Railroad Avenue Wellsville, NY 14895,
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

3/16/23

Date

Appendix B

Monitoring Evaluation,
Approved Revised
Monitoring Plan and
NYSDEC Response



ON-SITE TECHNICAL SERVICES, INC

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

April 3, 2009

Linda Ross, CPG
New York State Department of Environmental Conservation
Division of Solid and Hazardous Materials, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: Wellsville/Andover Landfill Site (Site # 9-02-004) – Site Monitoring Evaluation and Proposed Revised Monitoring Plan

Dear Linda:

On behalf of the Village of Wellsville, this letter has been prepared to evaluate the above referenced site's post remedial action monitoring results and propose a revised monitoring plan tailored to the site for continued ample monitoring.

Background

The Wellsville/Andover Landfill was operated by the Village of Wellsville from 1964 to 1983, accepting both municipal and industrial waste. The site was added to the New York State Superfund and the New York State Department of Environmental Conservation (NYSDEC) selected capping with waste consolidation as the remedial action in the Record of Decision (ROD) for the site (NYSDEC 1994). Waste from the Northwest and Northeast fill areas was consolidated and capped on the South/South-central fill area. Following consolidation, the fill was compacted and capped with a 19-acre cover system, which incorporates a passive landfill gas (LFG) venting system, a leachate collection and storage system and a groundwater cut-off trench. Remedial construction activities were completed in September 1997.

An operation and maintenance plan was prepared for the site: *Operation and Maintenance Manual For The Wellsville/Andover Landfill Site Number 9-02-004 Allegany County, New York*, dated November 1997 (O&M Plan); which details O&M requirements. Section 3.3 of the O&M Plan states:

The primary goals of this action were to minimize leachate production, control and manage leachate produced, control LFG, consolidate the waste to reduce the size of the landfill, reduce the potential for

surface contact with waste and contaminated soils, and mitigate the spread of contaminated groundwater off site. The remedial action mitigated significant threats to the public health and the environment by:

- *Reducing the production of leachate within the fill mass;*
- *Eliminating the threat to surface waters by eliminating any future contaminated surface water runoff from the contaminated soils on site;*
- *Eliminating the potential for direct human or animal contact with the contaminated soils on site;*
- *Mitigate the impacts of contaminated groundwater to the environment;*
- *Mitigating, to the extent practicable, migration of contaminants in the landfill to groundwater; and*
- *Controlling LFG.*

Site Hydrogeology

Groundwater hydrogeology was investigated during the remedial investigation as summarized in the O&M Plan. Generally, groundwater flows from the North-Northeast to the South-Southwest as dictated primarily by topography. The overburden and bedrock beneath the site have been interpreted as being one continuous aquifer with no separating confining layer. However, in some areas of the site discontinuous low permeability horizons of silt and clay are present within the overburden creating perched water bearing zones. Groundwater flow is restricted vertically by localized clay/silt lenses, but aided in other areas by sand and gravel zones. In the top of bedrock, groundwater flow appears to be controlled by fractures and joints. Open and clay-filled bedrock fractures with many orientations were observed from remedial investigation borings. This indicates that groundwater can flow both horizontally and vertically within the overburden and top of bedrock.

Potentiometric mapping as part of approximately 11 years of post remediation monitoring indicate that groundwater flow conditions and directions have shown little variations from that observed during the remedial investigation.

Evaluation of Monitoring Results

Post remedial action site monitoring commenced in June 1998 and was conducted quarterly through 1999. Starting in 2000 and continuing through 2008, site monitoring has been conducted semi-annually. The monitoring has included sampling and analysis of groundwater, surface water and sediment, groundwater collection system water and leachate. These samples are tested for field parameters, Volatile Organic Compounds (VOCs), 15 Metals and 14 wet chemistry compounds listed in the table below.

Field Parameters

Specific Conductance
 Temperature
 pH
 Oxygen Reduction Potential
 Dissolved Oxygen
 Turbidity

Inorganic Compounds

Arsenic
 Barium
 Cadmium
 Calcium
 Chromium
 Copper
 Iron
 Lead
 Magnesium
 Manganese
 Nickel
 Potassium
 Selenium
 Sodium
 Zinc

Volatile Organic Compounds

1,1,1-Trichloroethane
 1,1,2,2-Tetrachloroethane
 1,1,2-Trichloroethane
 1,1-Dichloroethane
 1,1-Dichloroethene
 1,2-Dibromoethane
 1,2-Dichloroethane
 1,2-Dichloropropane
 2-Butanone (MEK)
 2-Hexanone
 4-Methyl-2-pentanone
 Acetone
 Benzene
 Bromodichloromethane
 Bromoform
 Bromomethane
 Carbon disulfide
 Carbon tetrachloride
 Chlorobenzene
 Chloroethane
 Chloroform
 Chloromethane
 cis-1,2-Dichloroethene
 cis-1,3-Dichloropropene
 Dibromochloromethane
 Dichloromethane (Methylene chloride)
 Ethyl benzene
 m&p-Xylene
 o-Xylene
 Styrene
 Tetrachloroethene
 Toluene
 trans-1,2-Dichloroethene
 trans-1,3-Dichloropropene
 Trichloroethene
 Vinyl chloride

Wet Chemistry

Alkalinity
 Ammonia
 Biochemical Oxygen Demand
 Bromide
 Chemical Oxygen Demand
 Chloride
 Color (True)
 Hardness
 Sulfate
 Total Dissolved Solids
 Total Kjeldahl Nitrogen
 Total Organic Carbon (TOC)
 Total Phenolics
 Turbidity

Additionally potentiometric mapping, landfill gas monitoring and sampling and analysis of nearby residential water supplies is conducted. An evaluation of these approximately 11 years of monitoring results is presented below.

Groundwater

The current site monitoring well network consists of 18 wells required to be sampled annually and 11 of the 18 wells sampled semi-annually. Please see attached figure 1 for monitoring well locations. The table below presents a summary of parameters detected in groundwater during the last five years of monitoring.

Summary of 2004 through 2008 Groundwater Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection	Class GA Standard	Number of Class GA Exceedances
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Metals

Barium	119	98	0.0202	0.32	1	0
Calcium	119	119	2.96	140		
Chromium	119	1	0.011	0.011	0.05	0
Iron	119	97	0.108	13.4	0.3	77
Lead	119	8	0.0052	0.0733	0.025	1
Magnesium	119	118	0.651	64		
Manganese	119	112	0.0102	1.65	0.3	58
Potassium	119	85	2.1	33.5		
Selenium	119	1	0.00522	0.00522	0.01	0
Sodium	119	119	1.56	67.4	20	45
Zinc	119	21	0.0205	0.347		0

VOCs

1,1-Dichloroethene	134	1	0.0066	0.0066	0.005	1
cis-1,2-Dichloroethene	134	94	0.005	3	0.005	93
Ethyl benzene	134	1	0.0073	0.0073	0.005	1
Toluene	134	1	0.0065	0.0065	0.005	1
trans-1,2-Dichloroethene	134	4	0.011	0.021	0.005	4
Trichloroethene	134	80	0.0052	3.2	0.005	80
Vinyl chloride	134	34	0.005	0.83	0.002	34

Wet Chemistry

Alkalinity	113	113	7.2	410		
Ammonia Nitrogen	115	11	0.0512	0.161	2	0
Biochemical Oxygen Demand	111	15	2.13	13		
Bromide	113	6	1.06	1.38		
Chemical Oxygen Demand	115	40	5.13	18.8		
Chloride	113	89	2.04	71.4	250	0
Color (True) (C.U.)	116	70	5	75	15	10
Hardness	117	117	12.2	519		
Sulfate	113	113	3.49	161	250	0
Total Dissolved Solids	113	113	32	698	500	5
Total Kjeldahl Nitrogen	115	34	0.203	2.74		
Total Organic Carbon (TOC)	115	70	1.01	7.51		
Total Phenolics	114	2	0.00706	0.0181	0.001	2

As observed in the table above and also previously described in site monitoring reports, there are three metals (Iron, Manganese and Sodium) and three VOCs (cis-1,2-Dichloroethene (cDCE), Trichloroethene (TCE) and Vinyl chloride) that frequently exceed NYSDEC Class GA Groundwater Standards. Therefore, concentration verses time plots for these six compounds have been prepared for monitoring wells that exhibit exceedances. These wells include CW-3A, CW-3B, CW-4B, MW-5D, MW-5S, MW-15S and MW-18S for metals and VOCs and MW-11S and MW-16S for VOCs. These plots are attached for reference.

In General, for Iron, Manganese and Sodium, increasing or decreasing time trends are not apparent. The three metals have been detected at various concentrations above standards at both upgradient and downgradient wells. These metals are common constituents of soil and groundwater and often occur naturally at the concentrations detected.

Volatile Organic Compound analyses of groundwater have shown evident time trends and VOCs are the primary constituents of concern at this site. For this reason statistical analysis was performed to evaluate total VOCs (sum of detected VOCs in a given sample). The data set utilized for the analysis includes all available post remediation VOC results, which generally includes 24 sampling events over an 11 year period. The statistical analysis was conducted using the Mann-Kendall test using a normal approximation method in accordance with *USEPA Data Quality Assessment: Statistical Methods for Practitioners EPA QA/G-9S*, dated February 2006. In this analysis, a null hypothesis of "There is no trend" is tested against an alternative hypothesis of either "There is an upward trend" or "There is a downward trend". This analysis involves using a triangular table to compute a Statistic (S) and test it against a critical value and a probability value at a 5 % significance level (95% confidence level). If both criteria are met, then the null hypothesis of no trend is rejected in favor of the alternative hypothesis. Rejecting the null hypothesis suggests that the alternative hypothesis may be true. Alternative hypotheses are upward trend for S greater than zero and downward trend for S less than zero. If only one criterion or neither criteria are met, then the result is not enough evidence to show a trend. These statistical analyses are presented in Table 1 attached. A discussion of time trend plots and statistical analysis by individual monitoring well is provided below.

CW-3A – This is an overburden well located immediately downgradient of the landfill.

Plot observation: This well exhibited anomalous high results in June 2005, but has returned to lower levels the last seven samplings. TCE and cDCE have shown a decreasing trend the last three samplings, while vinyl chloride has been non-detect except in June 2005.

Statistical analysis: There is strong evidence of an upward trend in total VOC concentrations.

CW-3B – This is an overburden well located immediately downgradient of the landfill and adjacent to CW-3A. This well is approximately 12.5 feet deeper than CW-3A.

Plot observation: There is an apparent slight increasing trend in concentrations of TCE and cDCE.

Statistical analysis: There is strong evidence of an upward trend in total VOC concentrations.

CW-4B – This is an overburden well located immediately downgradient of the landfill.

Plot observation: The plot shows a slight downward trend with TCE and Vinyl chloride results non-detect the last five years and cDCE has been non-detect since December 2005.

Statistical Analysis: There is evidence of a downward trend, but not statistically significant at the 5% significance level (95% confidence level). Therefore, the result of the statistics is no trend.

MW-4D – This is a bedrock well located cross-gradient and East of the Northern portion of the landfill.

Plot observation: This well exhibits an apparent seasonal fluctuation in VOCs with an inverse proportional relationship to groundwater elevation. Elevated concentrations of primarily cDCE occur in the fall when groundwater elevations are low and then decrease in the spring when groundwater elevations are high. However, this seasonal fluctuation is not represented in the graph for the period of 2003 to 2007 when semi-annual sampling was conducted in the months of June and December and did not include samplings at low groundwater elevation periods. This period may have included times of elevated cDCE, but this is unknown because sampling was not conducted during periods of low groundwater levels.

Statistical Analysis: There is evidence of a downward trend, but not statistically significant at the 5% significance level (95% confidence level). Therefore, the result of the statistics is no trend.

MW-5S – This is an overburden well located cross-gradient and East of the central portion of the landfill.

Plot observation: There is a decreasing trend apparent from 1998 to 2002 and concentrations have remained low and relatively stable since 2002.

Statistical analysis: There is evidence of a downward trend, but not statistically significant at the 5% significance level (95% confidence level). Therefore, the result of the statistics is no trend.

MW-5D – This is a bedrock well located immediately adjacent to MW-5S.

Plot observations: cDCE is observed at higher concentrations than TCE and Vinyl chloride, but there is not an apparent increasing or decreasing trend.

Statistical analysis: There is no trend.

MW-11S – This is an overburden well located approximately 230 feet downgradient of the landfill and has been sampled semi-annually since 2005.

Plot observation: The plot shows fairly consistent VOC concentrations over time. TCE is the highest concentration (approximately 3 mg/L), cDCE is consistently around 0.5 mg/L and Vinyl chloride has been non-detect.

Statistical analysis: There is no trend.

MW-15S – This is an overburden well located cross/downgradient and approximately 600 feet from the landfill.

Plot observation: There is no discernable upward or downward trend. cDCE has been detected at concentrations between 0.011 mg/L and 0.04 mg/L, TCE fluctuates between

approximately 0.5 mg/L and non-detect and Vinyl chloride has been non-detect since 2002. However, this well does appear to exhibit seasonal fluctuations in VOC concentrations similar to MW-4D.

Statistical analysis: There is no trend.

MW-16S – This is an overburden well located approximately 1000 feet downgradient of the landfill. This well has been sampled on the same frequency as MW-11S.

Plot observation: cDCE, TCE and Vinyl chloride results are below detection limits, with the exception of TCE at 0.066 mg/L in September 2006.

Statistical analysis: Since there is only one VOC detection at this well; statistical analysis is not applicable.

MW-18S - This is an overburden well located cross-gradient and West of the northern portion of the landfill.

Plot observation: A time trend is not obvious, but there is a good correlation between cDCE and TCE, while Vinyl chloride has not been detected. cDCE and TCE concentrations increased in 2000 as compared to 1998 through 1999 and remained at similar concentration through 2007.

Statistical analysis: There is evidence of an upward trend. However, it should be noted that both criteria thresholds were just slightly exceeded, indicating that there is just enough evidence to reject no trend in favor of an upward trend.

Surface Water and Sediment

Surface water and sediment samples have been collected annually since 2000 from location SWS-1 (see figure 1). Prior to spring 2000 surface water and sediment samples were collected quarterly from SWS-1 and two other down stream locations. Additionally, three landfill perimeter seep samples were collected between 2001 and 2003. Seeps have not been observed active since 2003. SWS-1 is the currently required surface water and sediment sampling location; therefore results from this location are discussed below.

Location SWS-1 is located at the downstream side of the culvert within the drainage ditch that leads to an unnamed tributary to Duffy Hollow Creek. Both the unnamed tributary and Duffy Hollow Creek are classified as NYSDEC Class C streams. Since June 1998, 15 surface water samples have been collected at SWS-1. From these 15 samples, four samples have exhibited Class C surface water exceedances as presented in the table below.

SWS-1 Surface Water Class C Exceedances (mg/L)

Parameter	SWS-1 6/25/1998	SWS-1 12/2/1998	SWS-1 3/25/1999	SWS-1 6/16/2005	Class C Standard
Lead	0.0088		0.0089		0.008
Nickel			0.0176 B		0.0082
Thallium		0.0127			0.008
Total Dissolved Solids				642	500

VOCs have not been detected at SWS-1 with the following exceptions. There were three Acetone detections between 1998 and 1999, which are probable laboratory artifacts. cDCE was detected five times at a maximum concentration of 0.0067 mg/L. The last cDCE detection was reported in April 2003.

Sediment sampling at SWS-1 has shown typical metal and wet chemistry parameter detections along with minimal VOC detections. A summary of SWS-1 sediment detections is presented in the table below.

SWS-1 Sediment Analytical Result Summary (mg/Kg)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
Aluminum	7	7	8780	13100
Arsenic	15	15	7.16	73.4
Barium	15	15	51.2	348
Beryllium	7	5	0.628	0.876
Boron	7	2	27.1	41.1
Cadmium	15	2	0.18	1.14
Calcium	15	15	3850	43200
Chromium	15	15	7.26	21.2
Cobalt	7	7	9.9	17.4
Copper	15	15	10.2	25.5
Iron	15	15	11800	41200
Lead	15	15	6.22	30
Magnesium	15	15	1780	8490
Manganese	15	15	579	8160
Mercury	7	1	0.01	0.01
Nickel	15	15	10.3	32.3
Potassium	15	15	862	4600
Selenium	15	6	1.3	13.1
Sodium	15	12	81.9	1390
Thallium	7	1	3.21	3.21
Vanadium	7	7	11.2	23.4
Zinc	14	14	74.3	2610
1,1,2-Trichloroethane	15	1	0.012	0.012
1,2-Dichloroethane	15	1	0.012	0.012
2-Butanone (MEK)	15	2	0.004	0.033
Acetone	15	5	0.016	0.22
Chloromethane	15	1	0.004	0.004
Toluene	15	2	0.0027	0.071

SWS-1 Sediment Analytical Result Summary (mg/Kg)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
Alkalinity	15	14	376	14300
Ammonia Nitrogen	15	11	8.12	339
Biochemical Oxygen Demand	14	13	203	49500
Bromide	15	1	13.1	13.1
Chemical Oxygen Demand	15	15	15600	535000
Chloride	15	4	41.8	144
Hardness	14	13	689	44300
Sulfate	15	4	39.3	1700
Total Kjeldahl Nitrogen	15	15	168	5790
Total Organic Carbon (TOC)	10	10	0.34	46700
Total Phenolics	15	1	0.447	0.447
Total Solids	14	14	14.1	82.6

Groundwater Cut-off System

The groundwater cut-off system is intended to capture upgradient groundwater from the North and East landfill perimeters prior to contacting waste within the landfill. The North side collection trench drains to Manhole MH-32 located at the Northwest corner of the landfill, while the East side collection trench drains to Manhole MH-33 at the Southeast corner of the landfill. Both MH-32 and MH-33 are piped to drain either to the leachate collection system or to the landfill perimeter surface water drainage channels. To date, water in MH-32 and MH-33 has been drained to the leachate collection system. The pipes from the manholes to the drainage channel are closed with removable plugs. Sampling of these two manholes has been conducted since 1998 in anticipation of demonstrating acceptable water quality for discharge to the surface water drainage channels. A summary of parameters exceeding Class C surface water standards is provided below.

MH-32 & MH-33 Groundwater Cut-off System Class C Surface Water Exceedance Summary (mg/L)

Parameter	Number of Sample	Number of Detections	Minimum Detection	Maximum Detection	Class C Standard	Number of Class C Exceedances
Cobalt	12	4	0.0056	0.154	0.005	4
Lead	46	11	0.0027	0.165	0.008	7
Nickel	46	4	0.0056	0.272	0.0082	3
Thallium	12	3	0.0055	0.0178	0.008	2
Vanadium	12	4	0.0043	0.0826	0.014	2
Dichloromethane (Methylene chloride)	42	9	0.0027	1.9	0.2	1
Trichloroethene	42	20	0.0011	1.6	0.04	6
Ammonia Nitrogen	42	41	0.0955	7.69	2	12
Total Dissolved Solids	42	42	203	1650	500	16

Additionally, since cDCE, TCE and Vinyl chloride are the three primary constituents of concern in groundwater; time trend plots of these three compounds were created for MH-32 and MH-33 and are attached. MH-32, and to a greater extent MH-33, show a decreasing trend in these VOCs. However, at this time groundwater cut-off trench water does not meet standards to allow discharge to surface water.

Leachate

The quantity of leachate generated at the site has greatly decreased following the remedial action (please see attached graph). Leachate is sampled from the leachate sump. Since the groundwater cut-off system has drained to the leachate sump to date, leachate samples are a composite from the leachate collection system and groundwater cut-off trench. Various metals, VOCs and wet chemistry parameters are typically detected as presented in the summary table below.

Summary of Leachate Sump Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
Aluminum	5	4	0.164	8.76
Arsenic	21	12	0.0051	0.238
Barium	21	21	0.112	0.961
Boron	4	3	0.163	0.659
Cadmium	21	1	0.00572	0.00572
Calcium	21	21	78.7	151
Chromium	21	4	0.0101	0.0205
Cobalt	4	1	0.0034	0.0034
Copper	21	4	0.0043	0.0392
Iron	21	21	3.22	360
Lead	21	10	0.0043	0.0738
Magnesium	21	21	25.1	62.2
Manganese	21	21	3.72	13.7
Nickel	21	1	0.0054	0.0054
Potassium	21	21	3.57	16.9
Selenium	21	3	0.005	0.00981
Sodium	21	21	14.6	112
Tin	3	1	0.198	0.198
Vanadium	4	1	0.0632	0.0632
Zinc	18	11	0.0159	0.21
1,1-Dichloroethane	21	2	0.0014	0.0022
2-Butanone (MEK)	21	2	0.031	0.05
4-Methyl-2-pentanone	21	1	0.0049	0.0049
Acetone	21	5	0.0056	0.044
Benzene	21	2	0.0022	0.0044
Chlorobenzene	21	1	0.0019	0.0019
Chloroethane	21	1	0.0027	0.0027
Chloroform	21	2	0.0018	0.0034
cis-1,2-Dichloroethene	21	21	0.011	0.95
Dichloromethane (Methylene	21	2	0.0023	0.067

Summary of Leachate Sump Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
chloride)				
Ethyl benzene	21	6	0.005	0.1
m&p-Xylene	21	1	0.0075	0.0075
o-Xylene	21	1	0.0038	0.0038
Phenol	5	1	0.044	0.044
Toluene	21	4	0.0022	0.026
trans-1,2-Dichloroethene	21	4	0.0026	0.0075
Trichloroethene	21	14	0.0064	0.038
Vinyl chloride	21	16	0.0029	0.05
Alkalinity	19	19	276	566
Ammonia Nitrogen	19	19	0.0873	12.1
Biochemical Oxygen Demand	19	8	2.01	5.4
Bromide	19	3	1.02	1.43
Chemical Oxygen Demand	19	18	12.3	17100
Chloride	19	19	27.8	200
Color (True) (C.U.)	19	19	10	200
Hardness	19	19	328	675
Sulfate	19	19	4.26	26.3
Total Dissolved Solids	19	19	357	925
Total Kjeldahl Nitrogen	19	19	2.17	14.8
Total Organic Carbon (TOC)	18	18	2.04	26
Total Phenolics	19	1	0.00588	0.00588

Landfill Gas Monitoring

Landfill gas monitoring has been conducted at the site for approximately 10 years using an FID and an O₂/LEL meter. This monitoring has provided substantial characterization of the landfill gas and shown fairly consistent results. Several of the gas vents, leachate clean outs and manholes exhibit high concentrations of Methane and low levels of Oxygen, while the landfill perimeter readings are generally within normal background levels. Additional gas monitoring was conducted in June 2005 using a GEM 2000 landfill gas meter to provide more characterization of the landfill gas. The June 2005 monitoring showed several locations with Methane readings between approximately 33% and 97%. This monitoring has demonstrated that the primary landfill gas is Methane. Starting with the March 2007 monitoring event, a PID has been utilized instead of an FID. The PID provides monitoring of VOCs while an O₂/LEL meter continues to be used to monitor Oxygen and Methane.

Residential Water Supplies

There are 20 residential water supply locations in the monitoring program. The current monitoring schedule requires that three water supplies be sampled semi-annually (spring and fall) and the remaining 17 locations be sampled every three years. The table below presents a summary of detected parameters from the last five years of sampling, which includes sampling of the available 20 locations in 2005 and 2008.

Summary of 2004 through 2008 Residential Water Supply Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection	Class GA Standard	Number of Class GA Exceedances	NYSDOH MCL	Number of NYSDOH MCL Exceedances
Barium	53	52	0.002	0.11	1	0	1	0
Calcium	53	53	3.4	54.4				
Copper	53	20	0.01	0.16	0.2	0	1	0
Iron	53	25	0.06	1	0.3	9	0.3	9
Lead	53	1	0.015	0.015	0.025	0	0.05	0
Magnesium	53	53	1.6	20.8				
Manganese	57	35	0.0054	2.8	0.3	14	0.3	14
Potassium	53	53	0.7	4.4				
Sodium	53	53	1.1	104	20	28		0
Zinc	53	11	0.011	0.22			5	0
cis-1,2-Dichloroethene	58	9	0.00084	0.0021	0.005	0		
Trichloroethene	58	9	0.0012	0.0028	0.005	0	0.005	0

As shown in the table above, two parameters (Iron and Manganese) have shown exceedances of standards during the last five years. Eight of the nine Iron exceedances are from location WAL-2, which is a seasonal hunting camp adjacent to the Southwest corner of the landfill. The other Iron exceedance is WAL-17 in November 2005. WAL-17 is located approximately 8000 feet from the landfill; therefore this exceedance is unlikely related to the site. The Manganese exceedances are from WAL-2 and WAL-20. WAL-20 is also located approximately 8000 feet from the site and Manganese concentrations have been near or below detection limits since this residential well was replaced in 2005. The VOC detections shown in the table above are from pre-filtered WAL-19 samples. WAL-19 is located Southeast of the landfill and includes a two-stage carbon treatment system maintained by the Village of Wellsville.

Summary of Monitoring Results Evaluation

Volatile Organic Compounds and to a lesser extent, metals, are the constituents of concern at the site. VOCs groundwater concentrations are stable at most wells and trending upward at three wells. The locations where VOCs are trending upward are immediately adjacent to the landfill and this upward trend is indicative of minimal groundwater flow. Groundwater level drawdown during sampling and slow recovery (in some cases days) further illustrate that groundwater flow is extremely measured. Metals have shown exceedances of standards in both upgradient and downgradient wells and in many cases are naturally occurring. Wet Chemistry parameters in groundwater are generally below standards and do not appear to be a good indicator of landfill impacts on groundwater at this site. This is contrary to typical municipal solid waste landfills and should be considered when evaluating future site monitoring needs. Surface water and sediment sampled at location SWS-1 appears un-impacted by the site. Groundwater collection system sampling shows some signs of decreasing concentrations, but results do not meet surface water standards at this time. Leachate continues to show several detections, but is generally

more dilute as compared to operating municipal landfills. Two Residential water supplies close to the landfill continue to show detections of constituents of concern.

These 11 years of monitoring results demonstrate that the remedial action goals continue to be met. Leachate quantities have greatly decreased following the remedial action. Surface water is not impacted by the site. Contaminated groundwater and landfill gas migration is being controlled. The remedial action has mitigated significant threats to public health and the environment.

Proposed Monitoring Program

Based on the above evaluation of monitoring results, a revised monitoring program has been designed to meet the needs of continued surveillance of the remedial objectives into the future. VOCs and metals are the primary constituents of concern and wet chemistry parameters do not appear to be good indicators at this site. The project analyte list is proposed to be revised to include field parameters, VOCs and metals with a few exceptions. The proposed monitoring requirements are presented in Table 2 attached and discussed below.

Groundwater

Groundwater sampling is proposed to be conducted annually, each Fall, in an attempt to capture annual high groundwater concentrations. Sampling locations will include currently sampled wells, with the following exceptions. Upgradient well MW-1D will not be sampled because upgradient water quality has been adequately characterized and no concern of an upgradient contaminate source. Sampling of overburden wells CW-3A and CW-4A will be discontinued because overburden wells CW-3B and CW-4B are immediately adjacent to these wells and show similar water chemistry. Bedrock well MW-15DA has not been sampled following the remedial action, because it has been dry. MW-15DA will be removed from the required sampling list.

Surface Water and Sediment

Surface water at location SWS-1 will be sampled during the annual Fall event with analysis for field parameters, VOCs, Metals, Nitrate Nitrogen and Total Dissolved Solids (TDS). Nitrate Nitrogen and TDS are tested in anticipation that the groundwater cut-off system may one day discharge to surface water and these two parameters frequently exceed Class C surface water standards in groundwater cut-off system water. Sediment sampling at this location has limited usefulness and is therefore discontinued.

Groundwater Cut-Off System

Manholes MH-32 and MH-33 will be sampled during the annual Fall event with analysis for field parameters, VOCs, Metals, Nitrate Nitrogen and TDS. Sampling of these locations is conducted in anticipation of future discharge to surface water.

Leachate

Leachate sump will be sampled during the annual Fall event.

Landfill Gas Monitoring

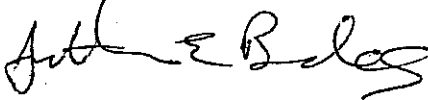
Landfill gas has been adequately characterized and has not been detected at the landfill perimeter; therefore landfill gas monitoring will be discontinued.

Residential Water Supply

Hunting camp WAL-2 will be sampled annually for metals. Resident WAL-5 will be sampled annually for VOCs and Metals. The two-stage carbon treatment unit will be maintained at residence WAL-19 with semi-annual sampling for VOCs prior to filtration, between the filters and post filtration. The remainder of the residential water supply sampling will be discontinued.

The Village of Wellsville and On-Site appreciate your review and consideration on this matter. If you have any questions or require any clarification on the information presented in this letter, please call the undersigned.

Sincerely,



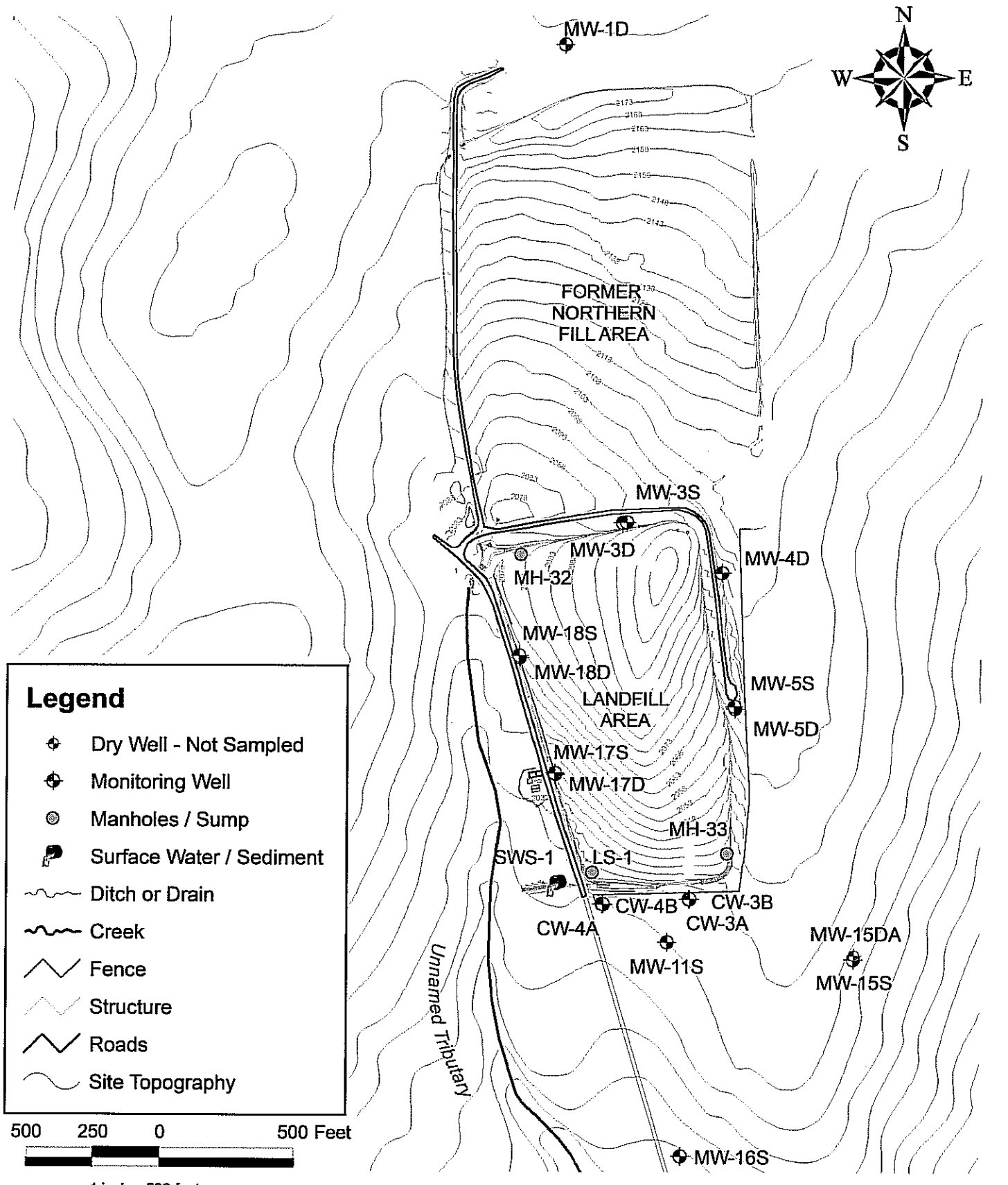
Jonathan E. Brandes, P.G.

Senior Geologist











cc: Bill Whitfield, Village of Wellsville
Judy Lynch, Village Trustee, Liaison to Landfill
Tamara S. Girard, NYSDOH

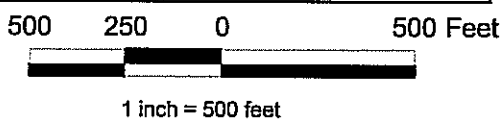
Attachments

SAMPLING LOCATIONS



Legend

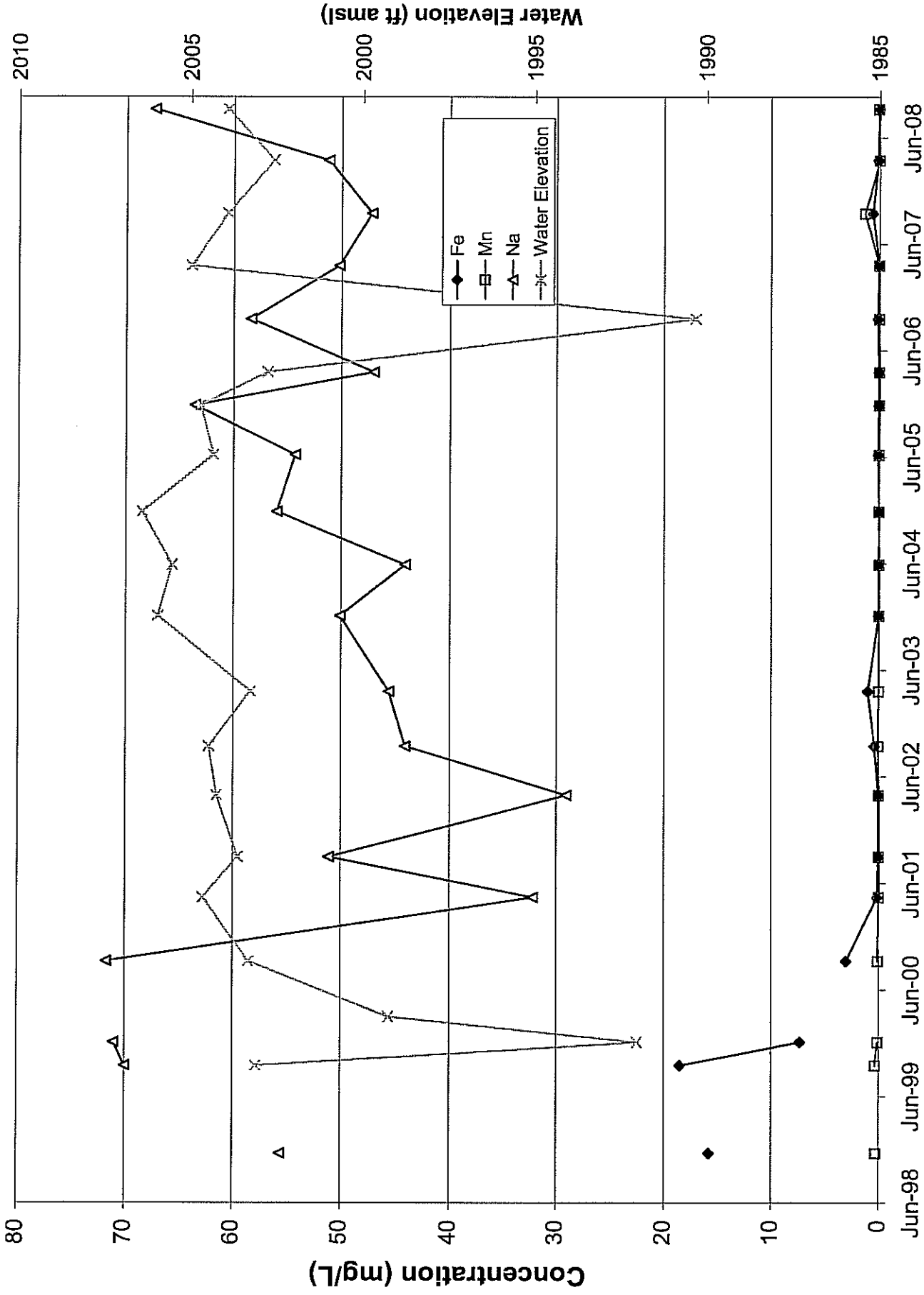
-  Dry Well - Not Sampled
-  Monitoring Well
-  Manholes / Sump
-  Surface Water / Sediment
-  Ditch or Drain
-  Creek
-  Fence
-  Structure
-  Roads
-  Site Topography



ON-SITE TECHNICAL SERVICES, INC.
72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	1
PROJECT	WAL
DOCUMENT	2009 Site Review
FILE NO.	Fig 1 - Samp Locs.mxd

CW-3A Metals

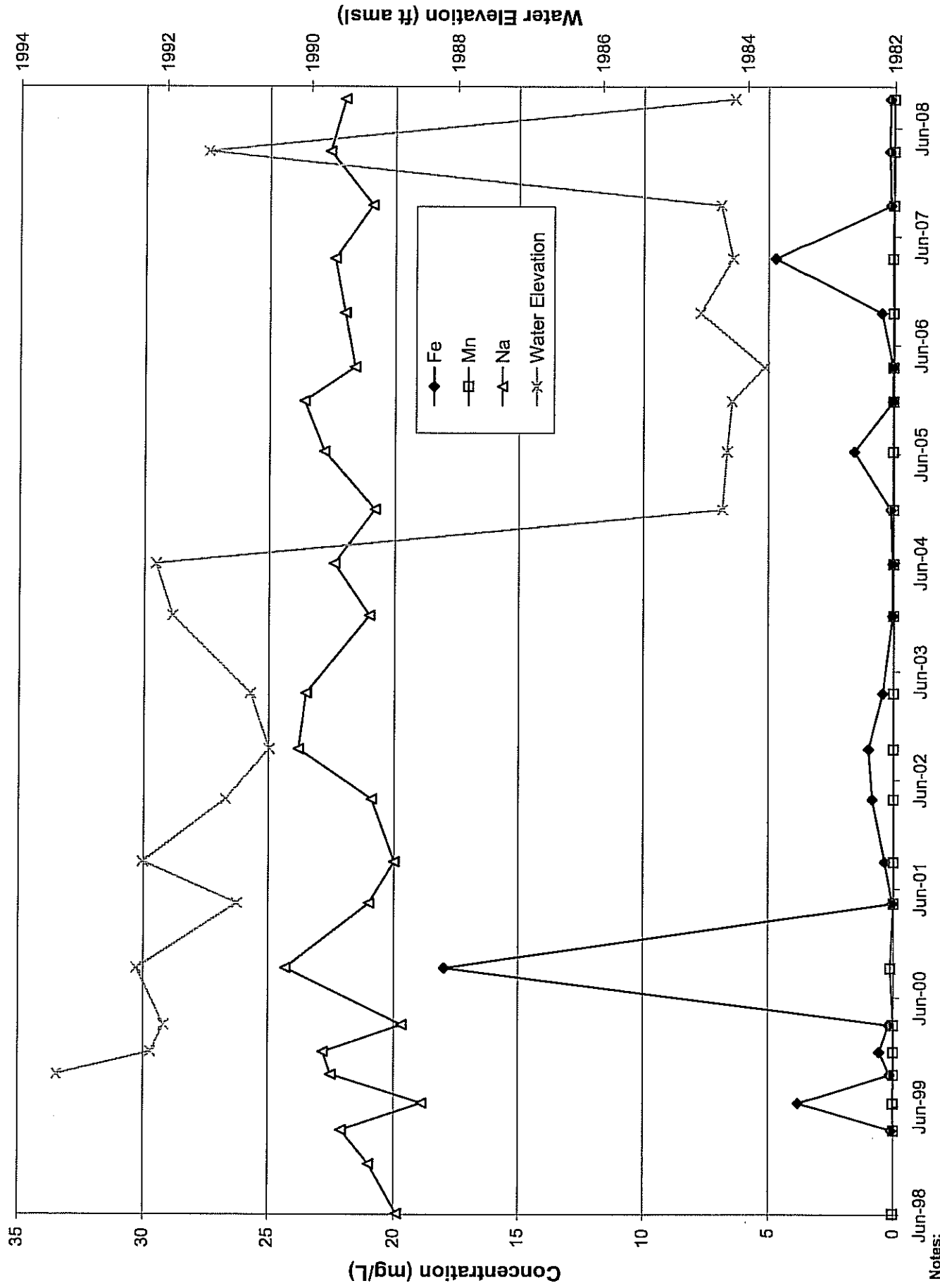


Notes:

1. The majority of results for Manganese and Iron are non detect.
2. 1/2 Detection limit used for non-detects.

Date

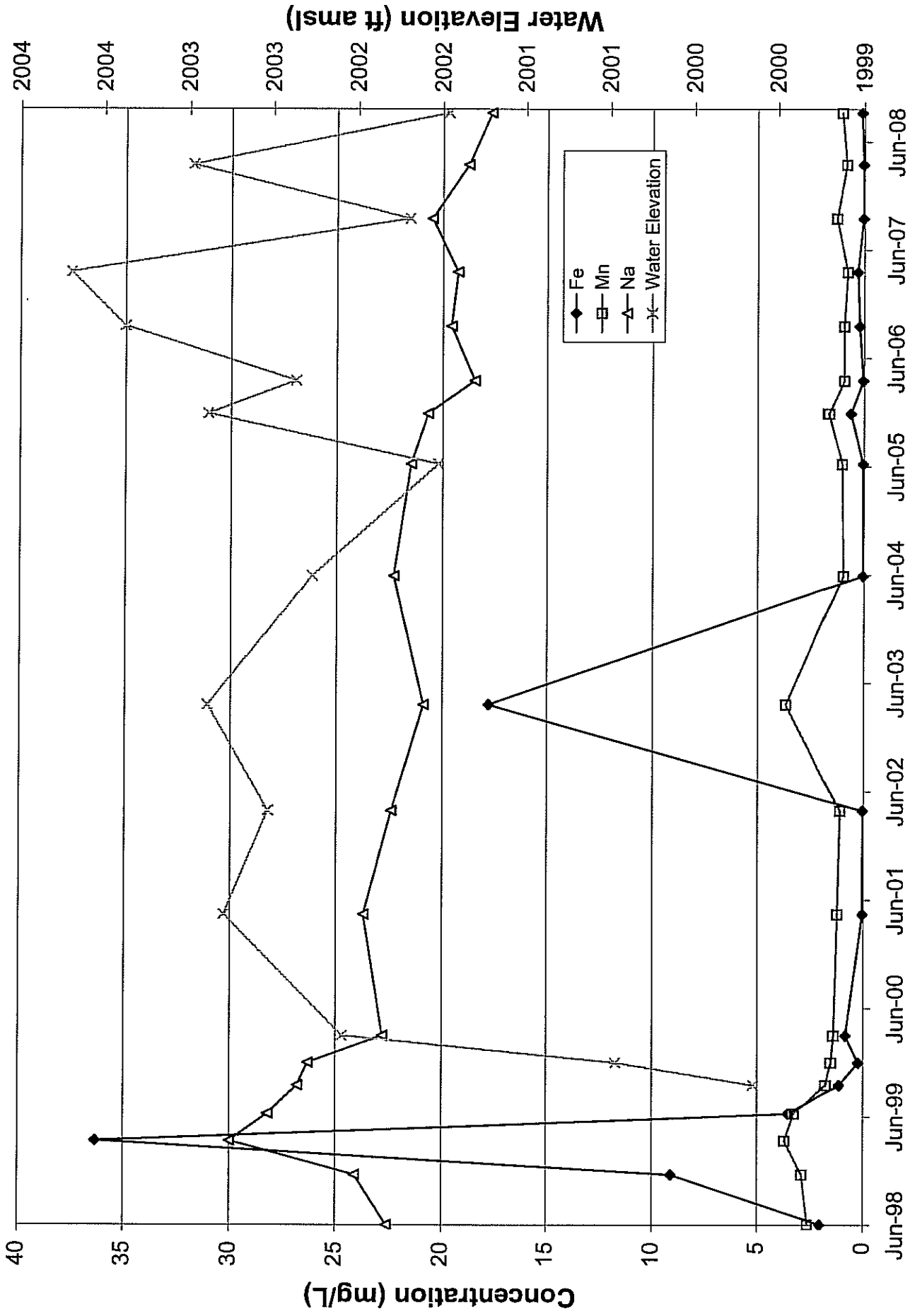
CW-3B Metals



Notes:
 1. A majority of results for Manganese and Iron are non-detects.
 2. 1/2 detection limit used for non-detects.

Date

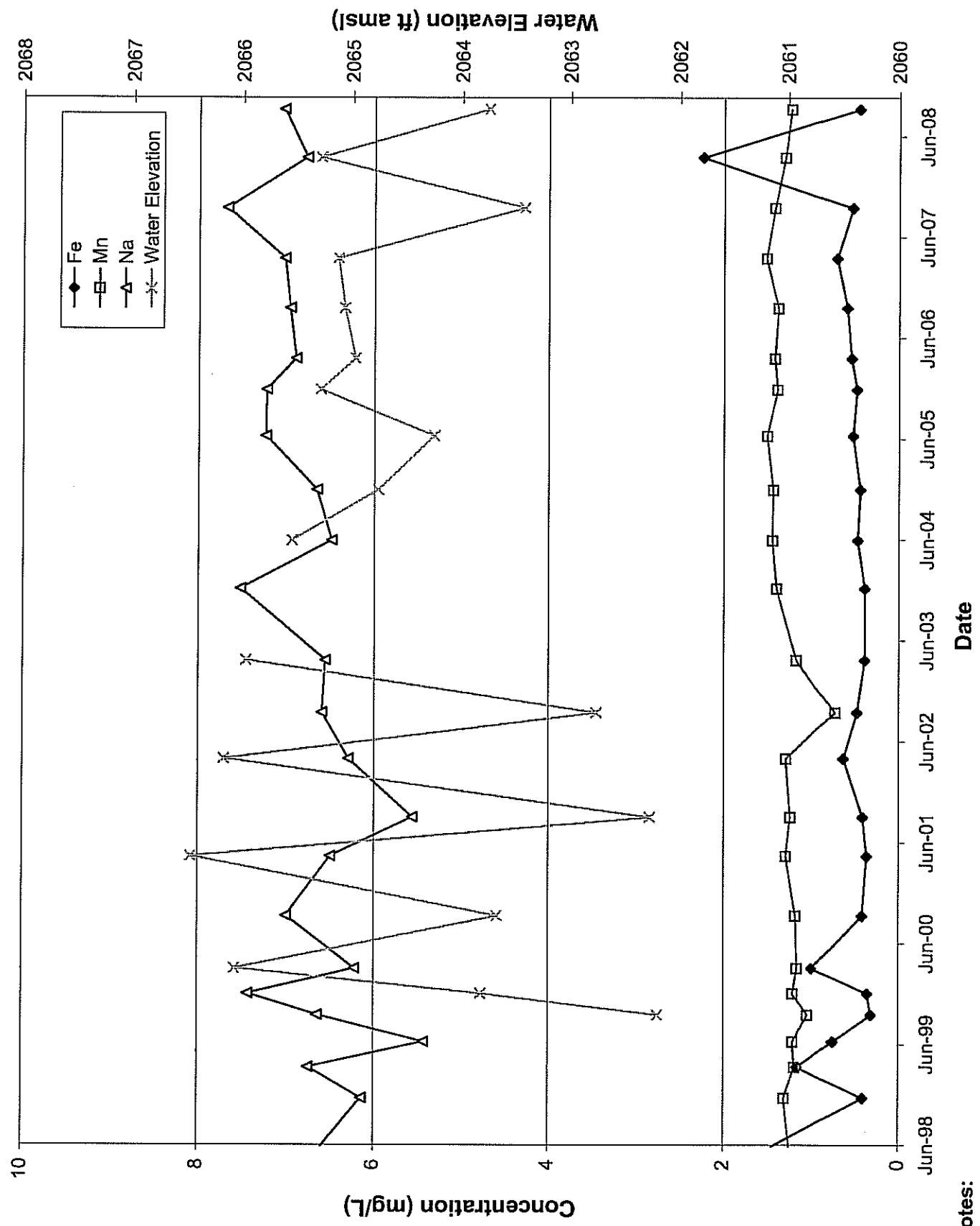
CW-4B Metals



Notes:

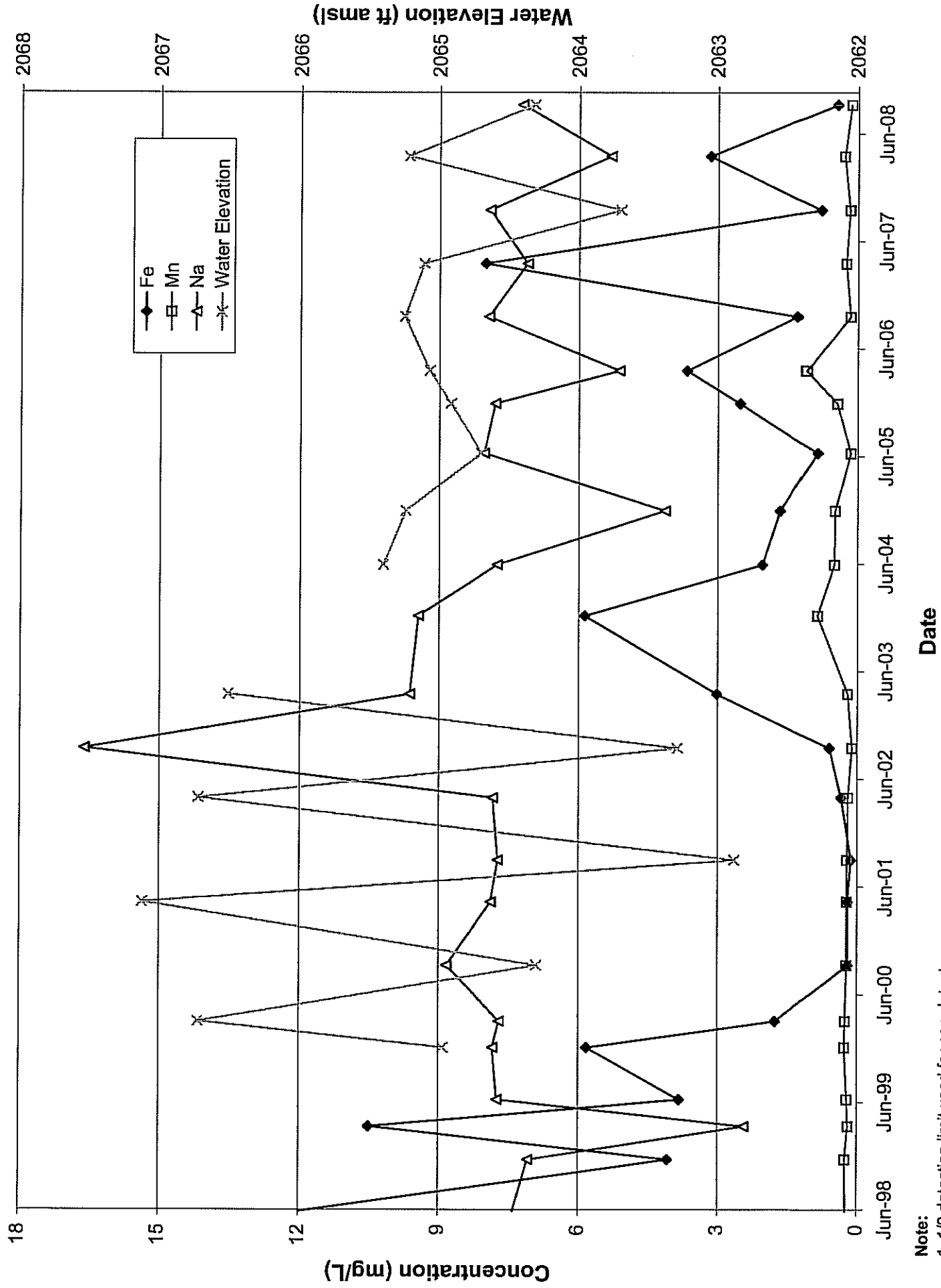
- 1/2 detection limit used for non-detects
- Iron is non-detect on 4/25/2001, 4/9/2002, 6/8/2004, 6/20/2005, 3/28/2006, 9/25/2007 and 3/25/2008

MW-5D Metals



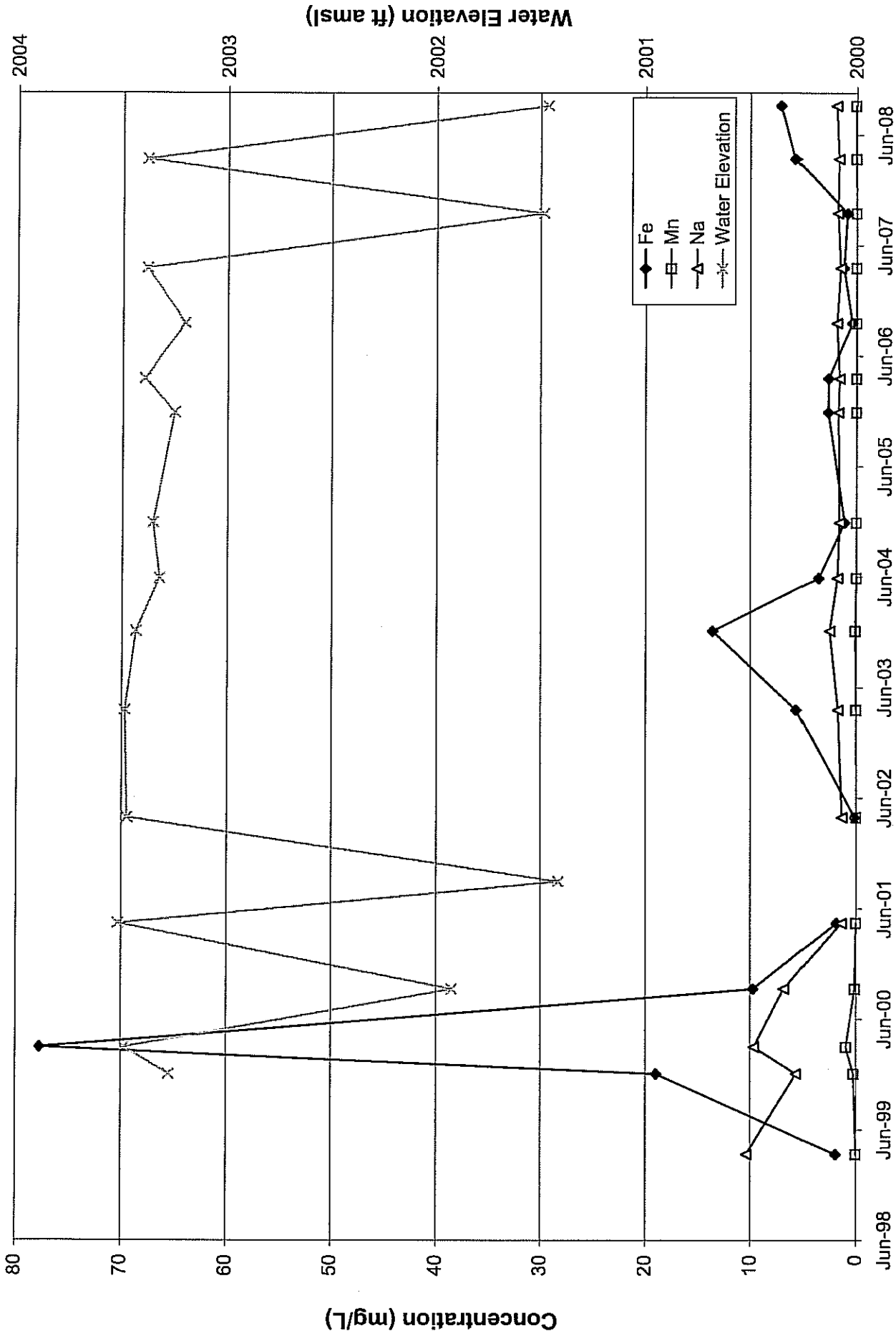
Notes:
 1. 1/2 Detection limit used for non-detects
 2. No water elevation available December 2003.

MW-5S Metals



Note:
 1. 1/2 detection limit used for non-detects.
 2. No water elevation available for December 2003.

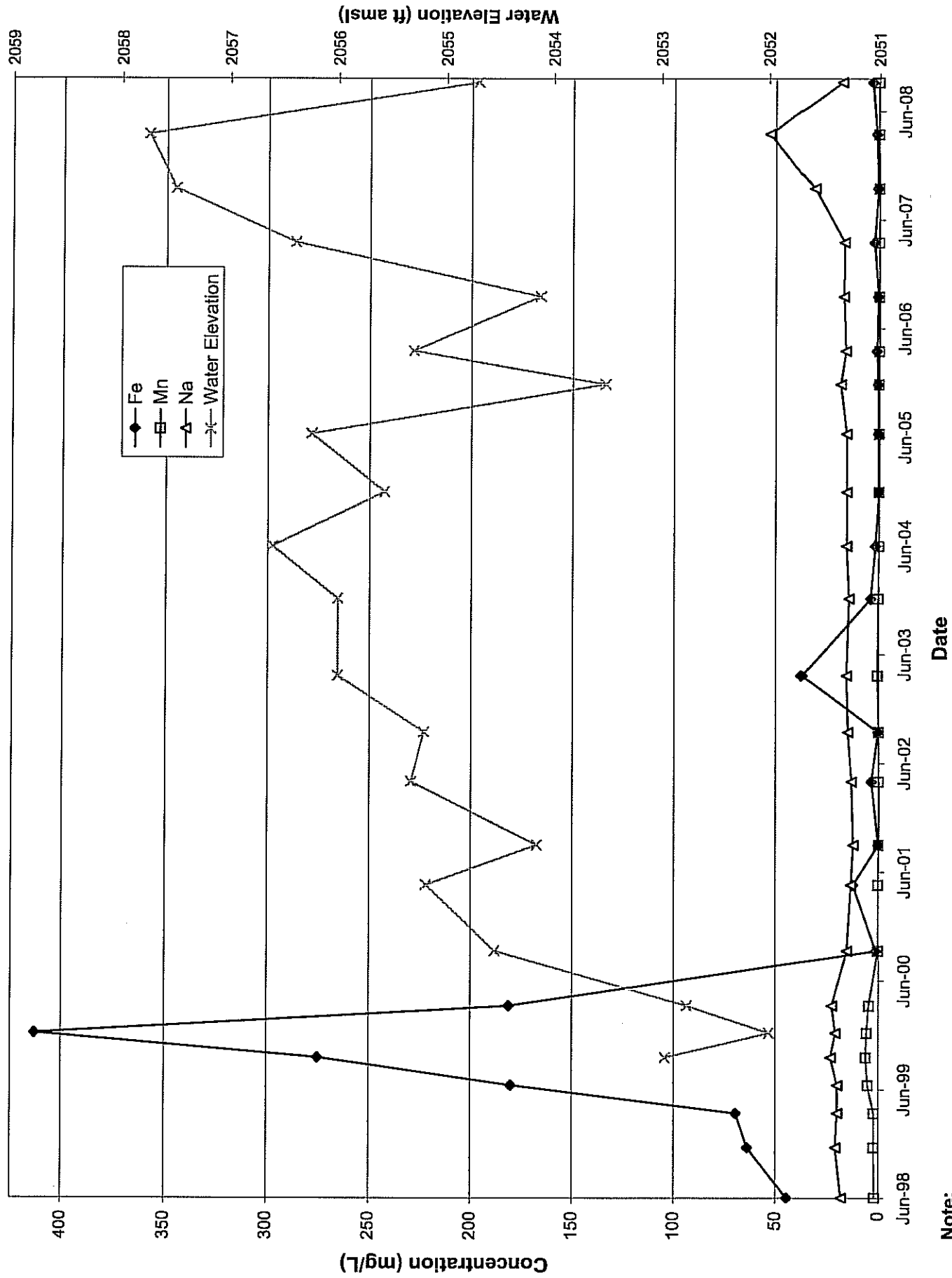
MW-15S Metals



Notes:

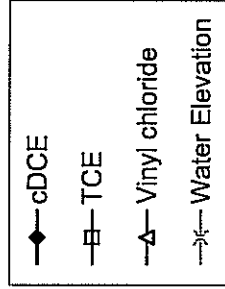
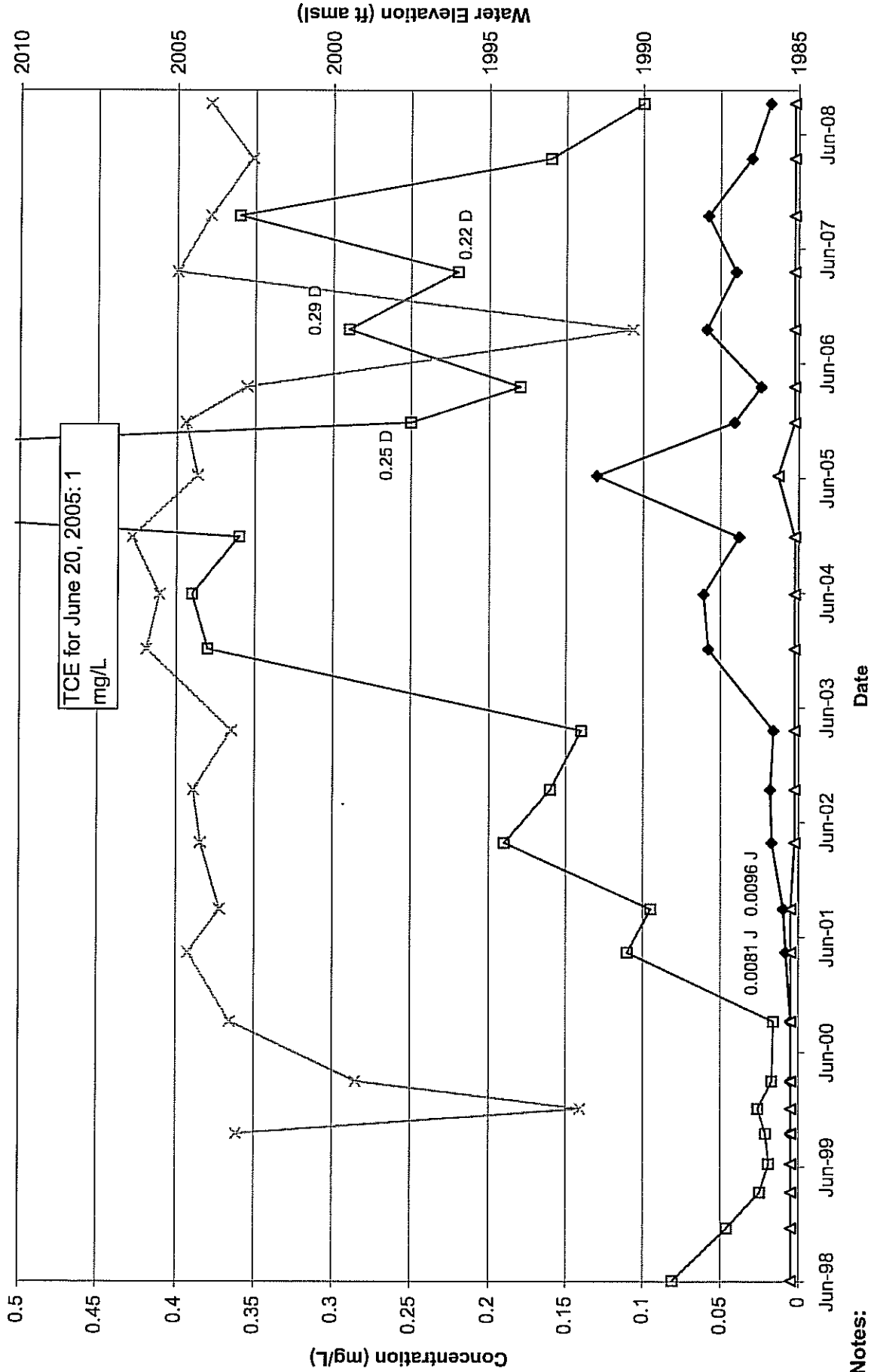
- 1. 1/2 detection limit used for non-detects
- 2. Manganese is non-detect on 4/10/2002 and 9/28/2006.
- 3. VOCs only collected on 9/1/2001 due to insufficient water volume.

MW-18S Metals



Note:
1. 1/2 Detection limit used for non-detects

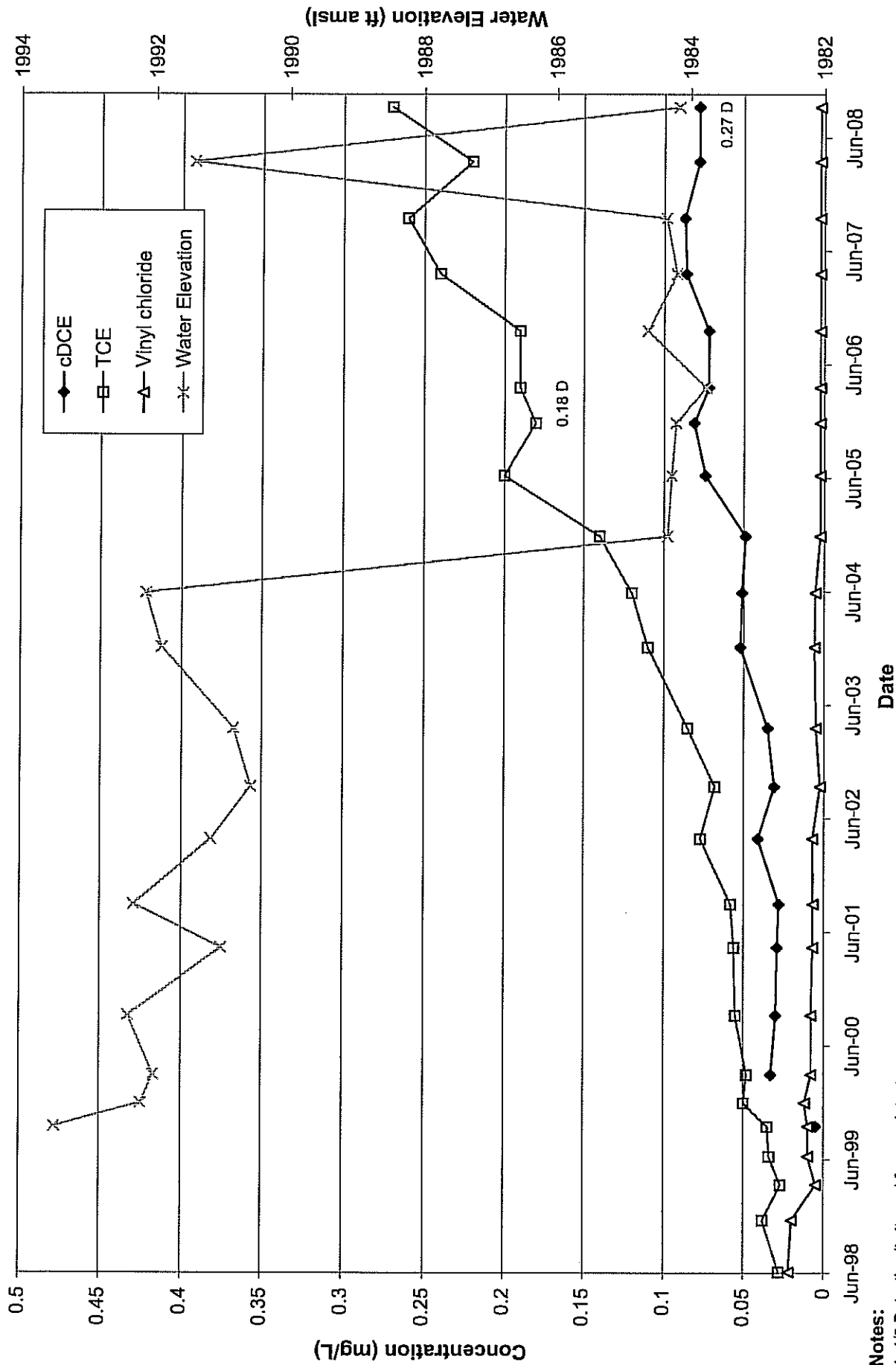
CW-3A VOCs



Notes:

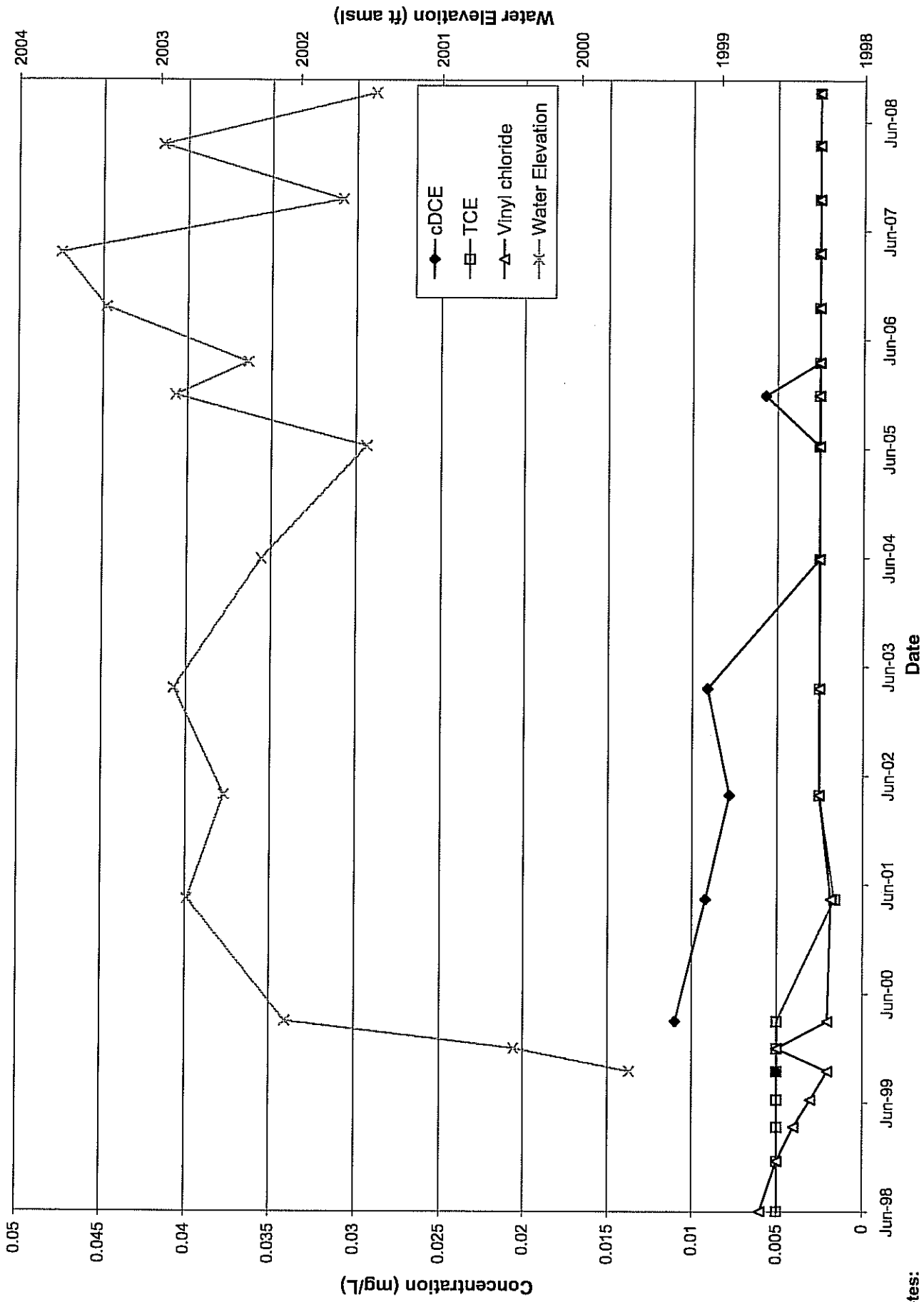
- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- Vinyl chloride results are non-detect except in June 2005.
- Results for cis-1,2-Dichloroethene on 3/13/2000 and 9/19/2000 are non-detect and estimated on 4/26/2001 and 9/11/2001.
- D - This flag indicates a result from a diluted sample.
- Data with flag labeled on graph as appropriate.

CW-3B VOCs



- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - The majority of Vinyl chloride results are non-detect. Vinyl chloride results on 3/13/2000, 9/19/2000, 4/25/2001 and on 9/11/2001 are estimated values.
 - Results for cDCE on 9/28/1999 are non-detect.
 - D - This flag indicates a result from a diluted sample.
 - Data with flag labeled on graph as appropriate.

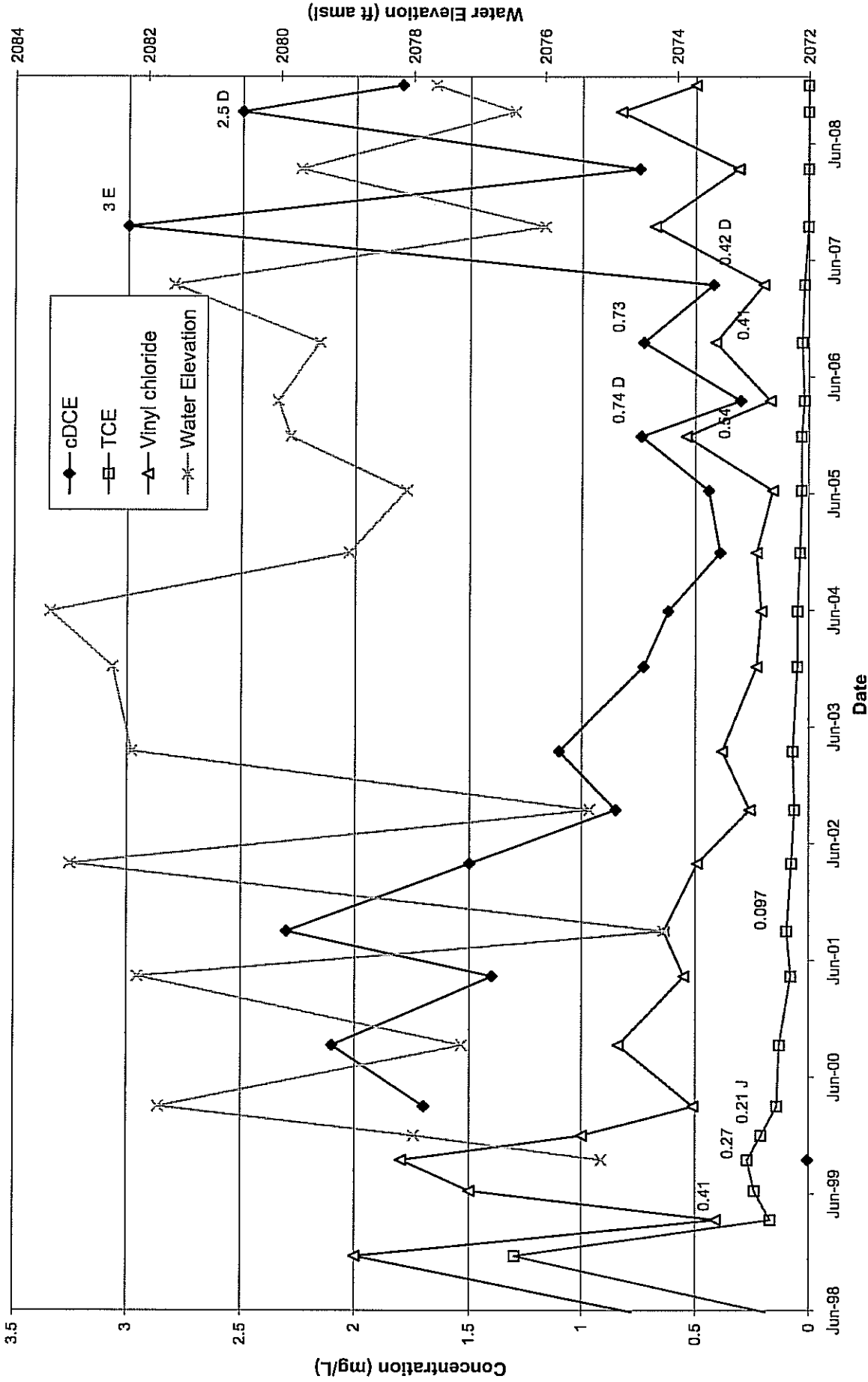
CW-4B VOCs



Notes:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- TCE and Vinyl chloride results are either non-detect or estimated values.
- A majority of cDCE results are non-detect.

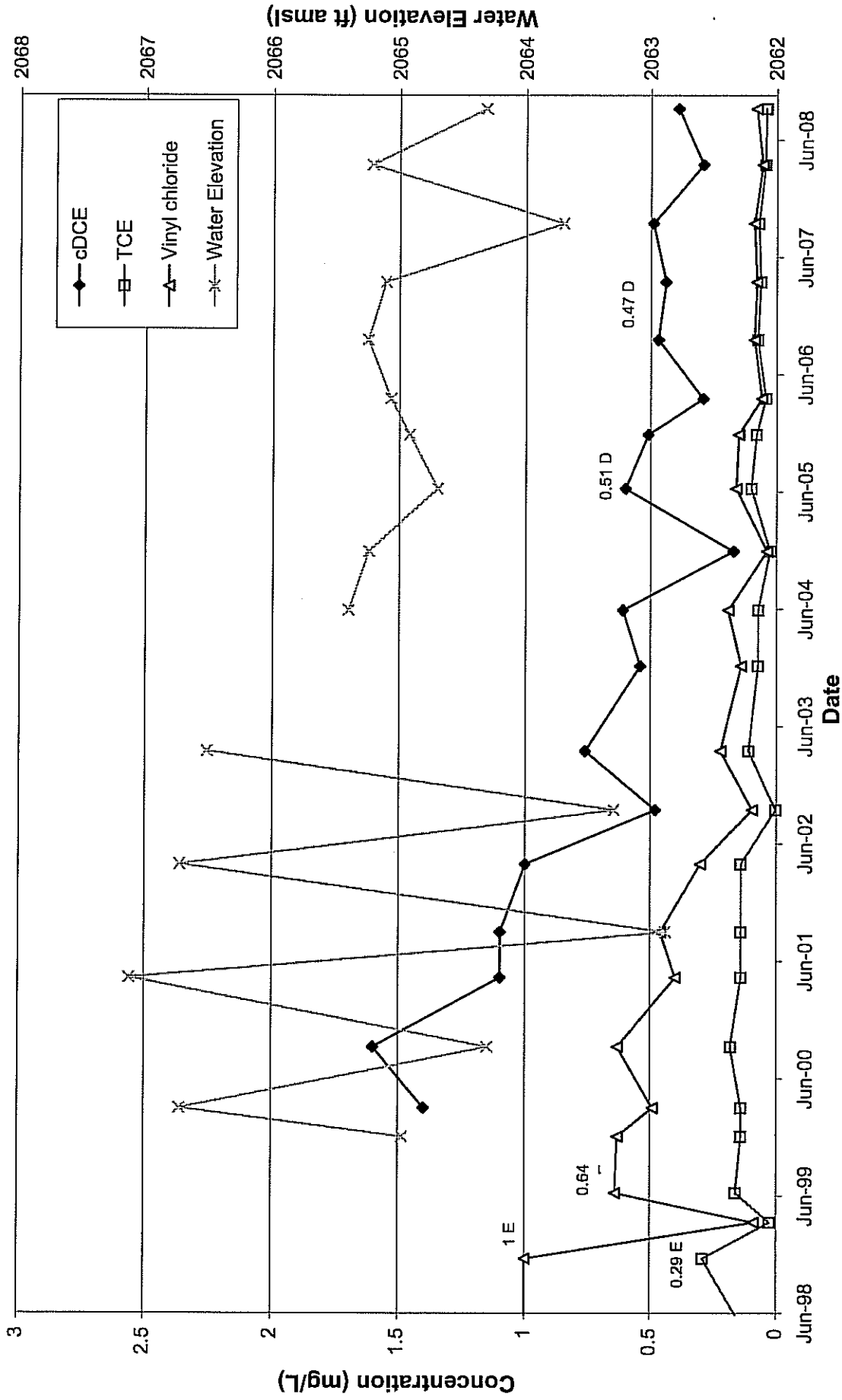
MW-4D VOCs



NOTES:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- E - Results are greater than the calibration range of the instrument used for analysis
- J - Estimated value.
- D - This flag indicates a result from a diluted sample.
- TCE is non-detect on 9/25/2007 and 3/24/2008.
- Data with flag labeled on graph as appropriate.

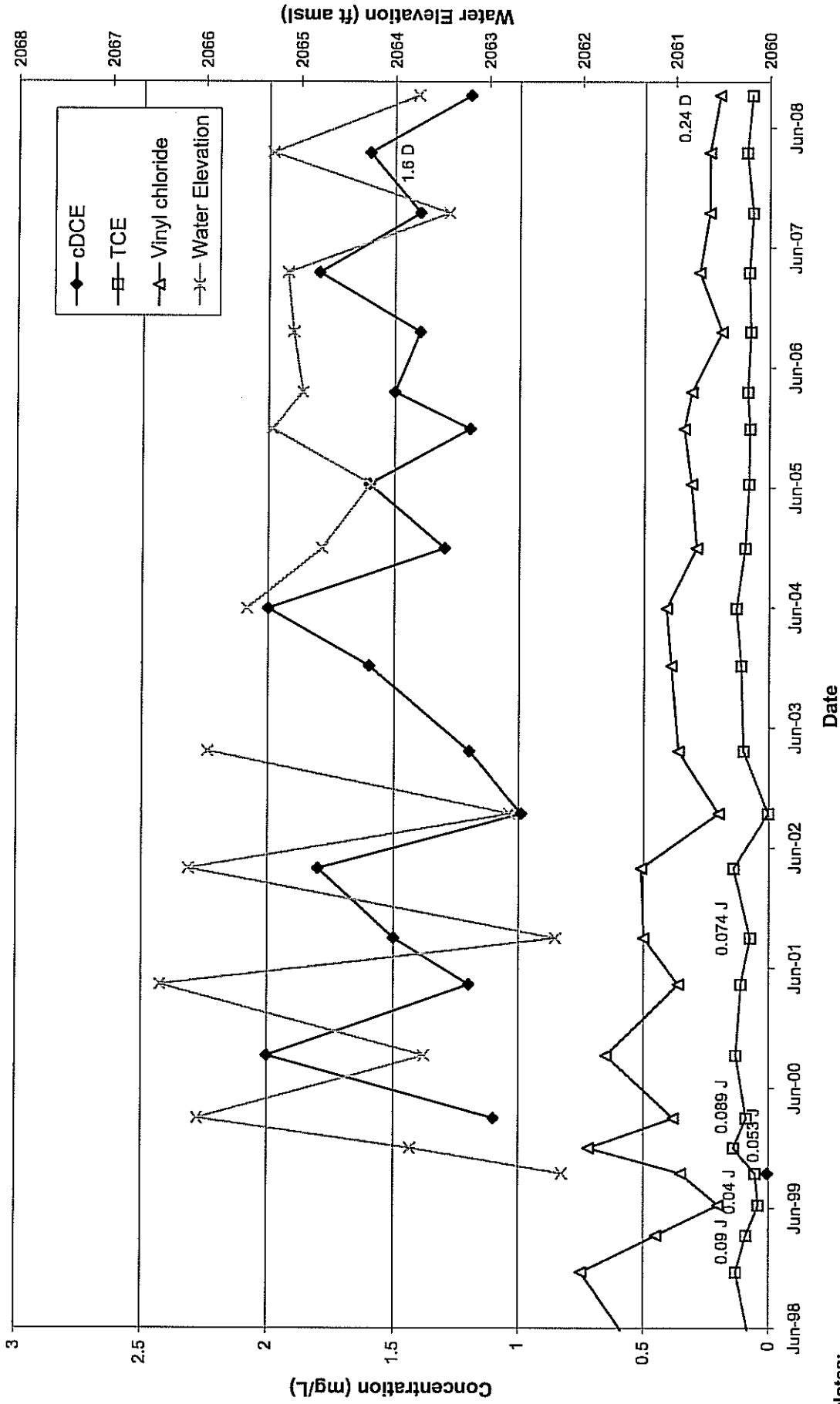
MW-5S VOCs



Notes:

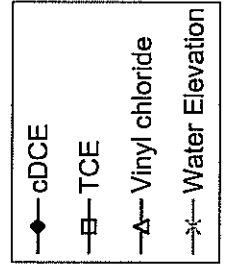
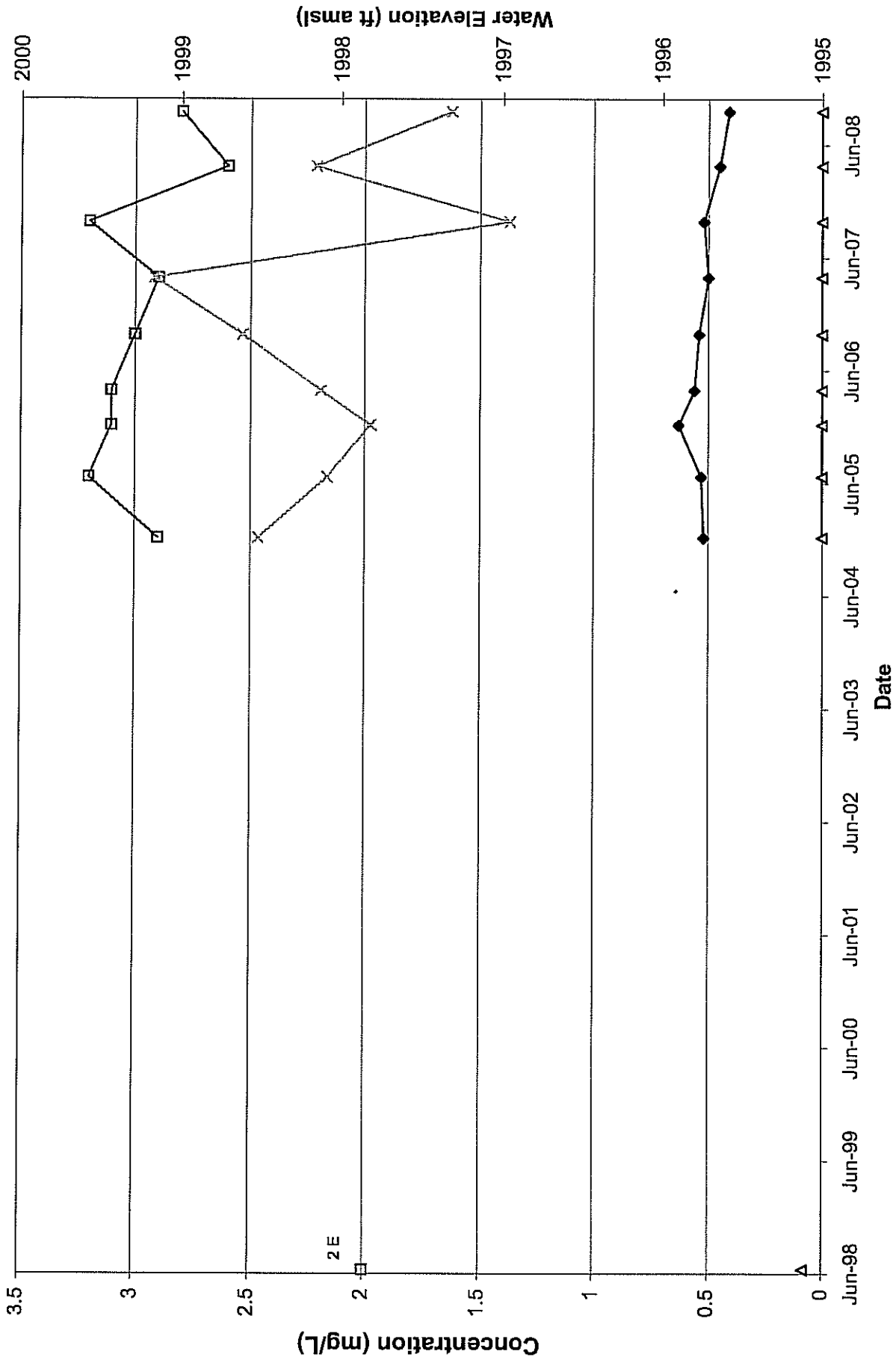
- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- TCE result on 9/26/2002 is non-detect.
- E - Results are greater than the calibration range of the instrument used for analysis.
- D - This flag indicates a result from a diluted sample.
- Data with flag labeled on graph as appropriate.
- No water elevation available for December 2003.

MW-5D VOCs



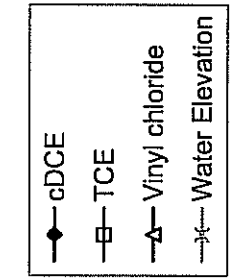
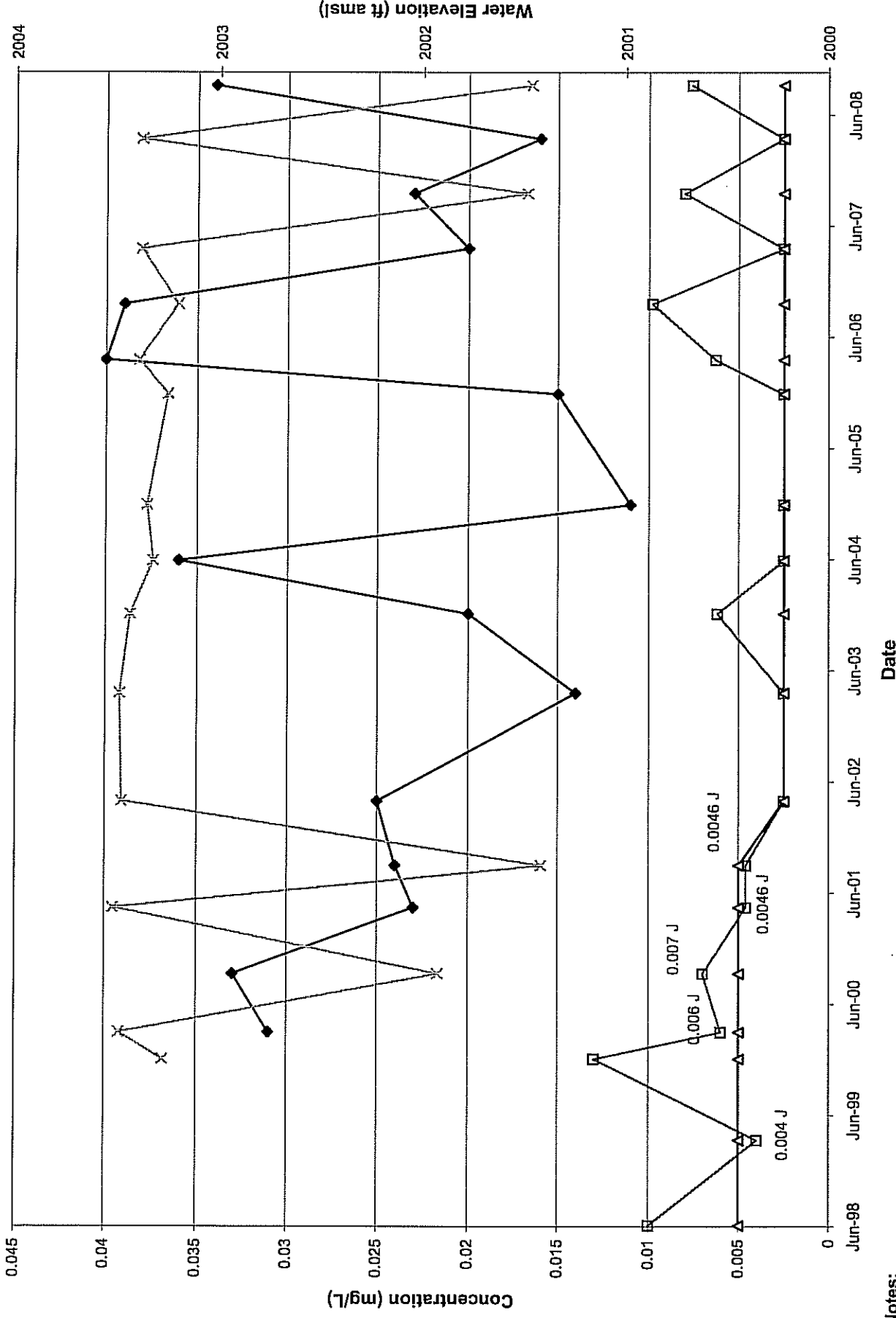
- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - TCE results on 6/9/1998, 9/23/1999, 6/23/1999, 9/28/1999, 3/14/2000 and 9/12/2001 are estimated values.
 - Result for cDCE on 9/28/1999 is non-detect.
 - J - Estimated values.
 - D - This flag indicates a result from a diluted sample.
 - Data with flag labeled on graph as appropriate.
 - No water elevation available December 2003.

MW-11S VOCs



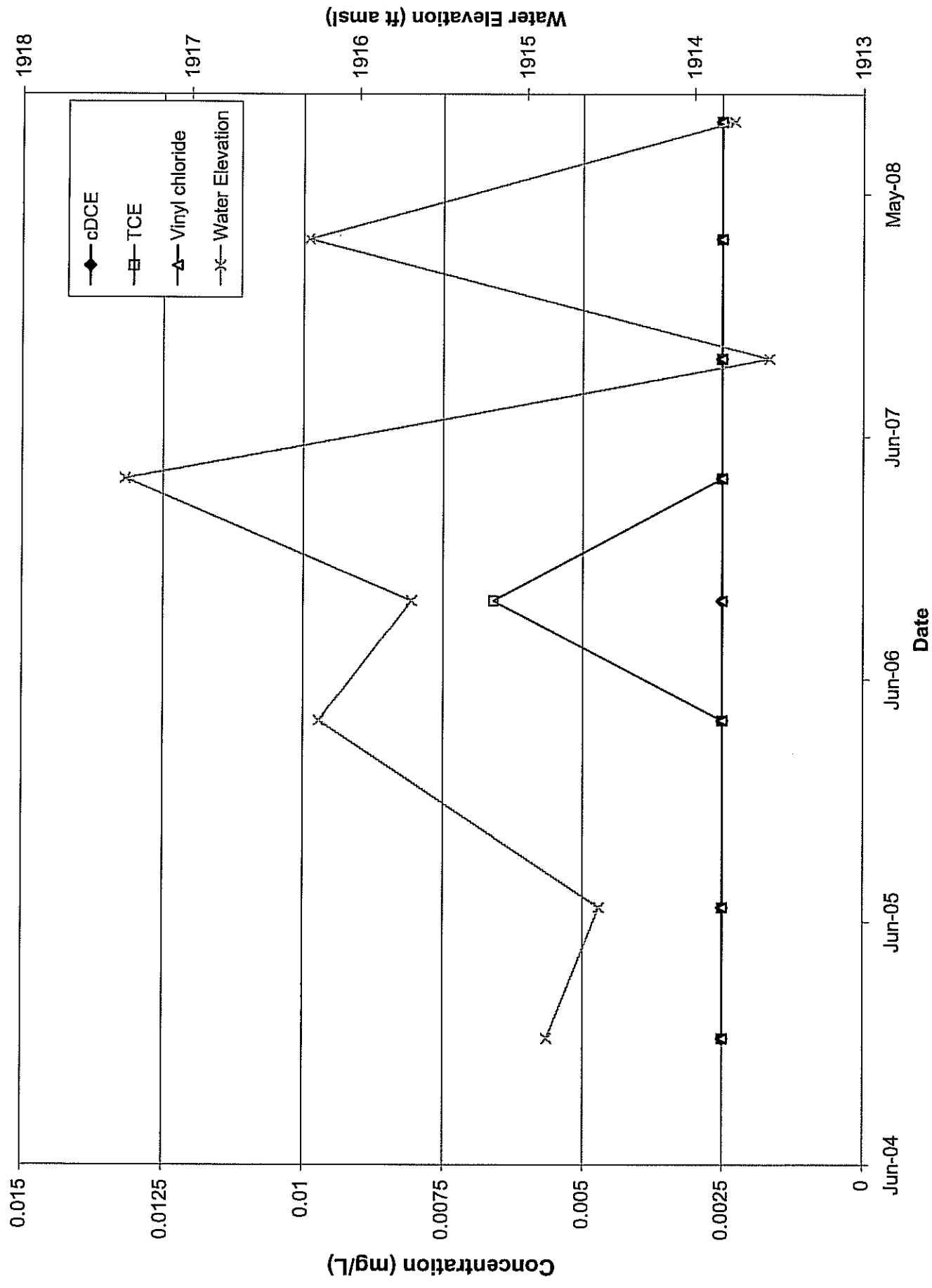
- NOTES:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - E - Results are greater than the calibration range for the instrument used for analysis.
 - Vinyl chloride results are non-detect with an exception of result on 6/17/1998.
 - Data with flag labeled on graph as appropriate.

MW-15S VOCs



- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - J - Estimated value.
 - All Vinyl chloride and a majority of TCE results are non-detect.
 - Data with flag labeled on graph as appropriate.

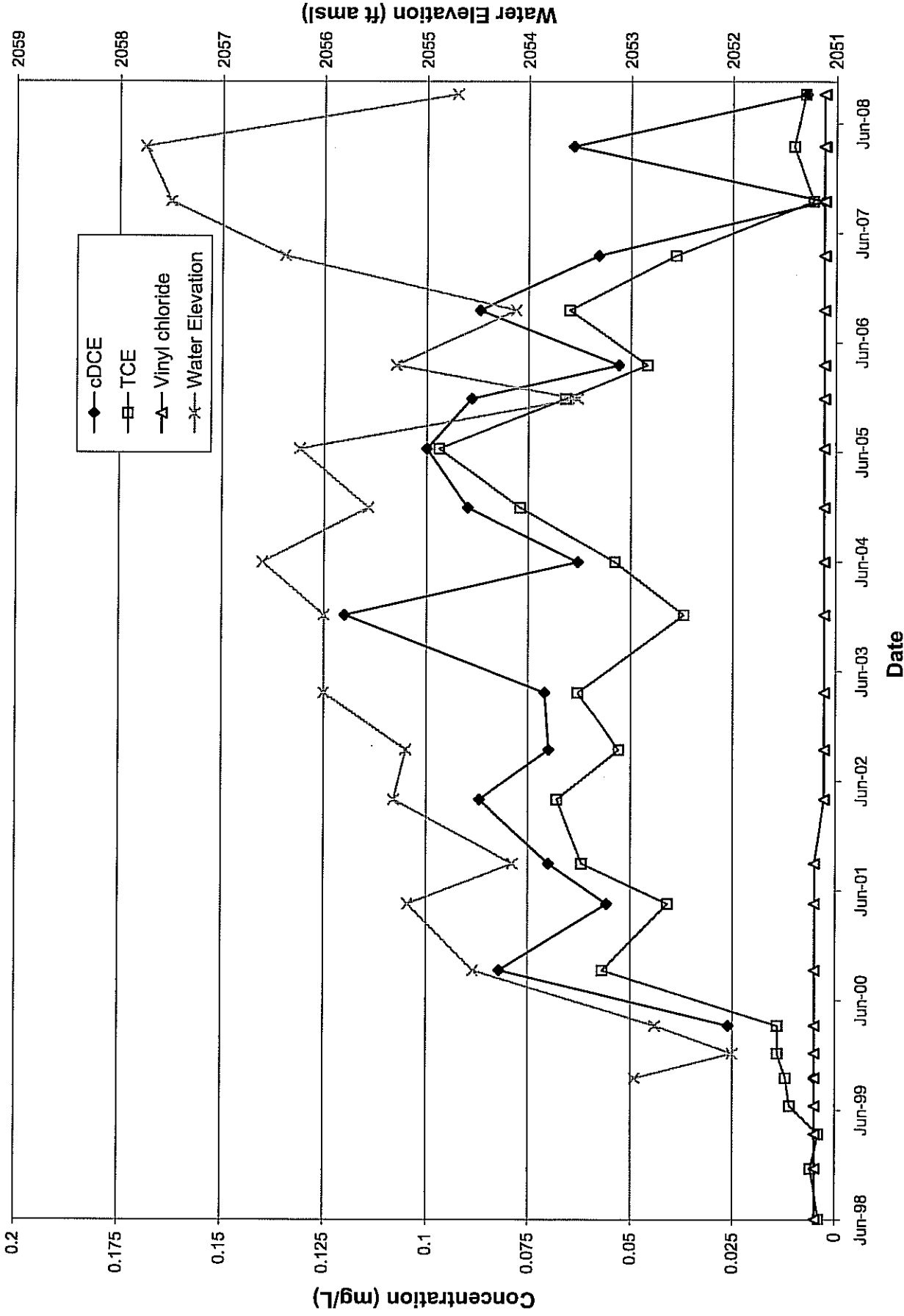
MW-16S VOCs



Notes:

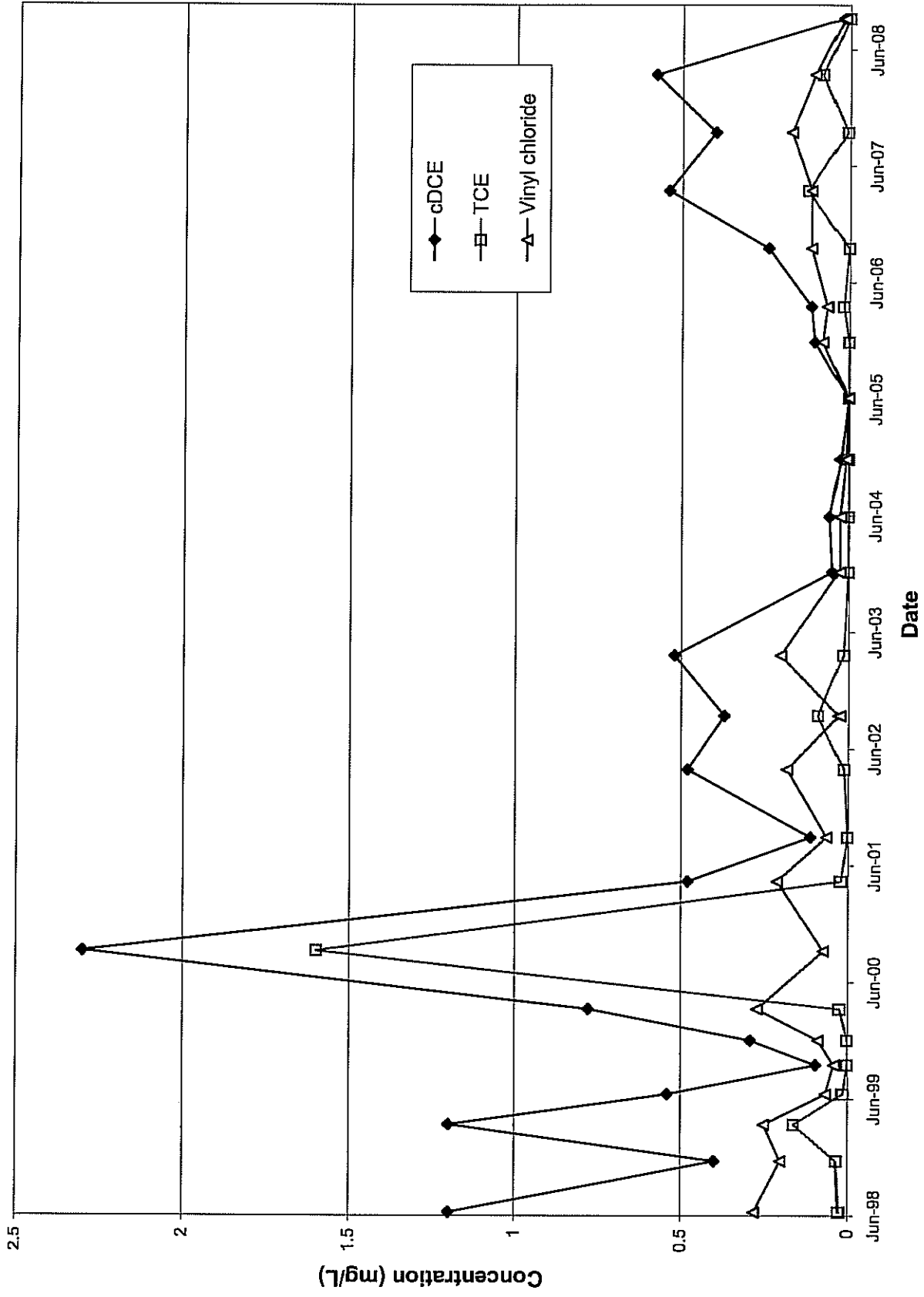
1. All values for cDCE, TCE and Vinyl chloride are non-detect with the exception of TCE on 9/27/2006.
2. There is no data available for MW-16S prior to December 2004.

MW-18S VOCs



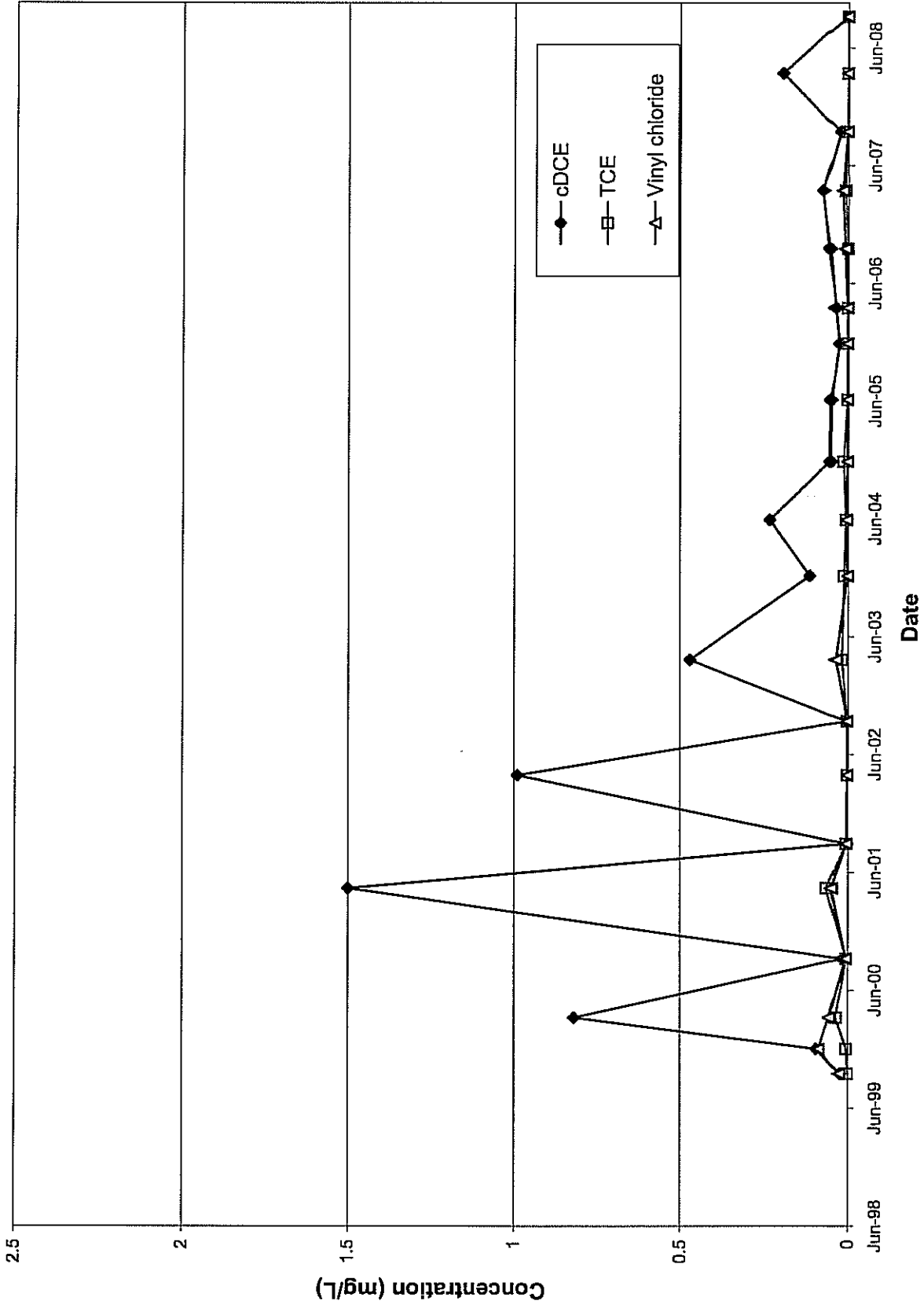
- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - TCE results on 6/15/1998, 12/1/1998 and 3/26/1999 are estimated values.
 - Vinyl chloride results are non-detect; cDCE is non-detect on 9/29/1999 and 9/25/2007.

MH-32



Notes:
1. 1/2 Detection limit used for non-detects.

MH-33



Notes:
1. 1/2 Detection limit used for non-detects.

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
 Wellsville/Andover Landfill
 Wellsville, New York

Monitoring Well CW-3A Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/17/98	12/1/98	3/25/99	6/24/99	9/29/99	12/16/99	3/13/00	9/19/00	4/26/01	9/11/01	4/10/02	9/25/02	4/7/03	12/16/03	6/8/04	12/7/04	6/20/05	12/6/05	3/30/06	9/28/06	3/30/07	9/25/07	3/25/08	9/17/08
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Result (mg/L)	0.086	0.048	0.03	0.021	0.024	0.027	0.017	0.032	0.1301	0.113	0.207	0.178	0.156	0.438	0.451	0.398	1.143	0.291	0.204	0.349	0.26	0.418	0.19	0.118
Count "u"																								
Count "s"																								
Count "u"																								
Count "s"																								
Total "u"																								203
Total "s"																								73
0.086	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.048	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.03	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.021	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.024	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.027	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.017	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.032	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.1301	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.113	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.207	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.178	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.156	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.438	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.451	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.398	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
1.143	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.291	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.204	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.349	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.26	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.418	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0.19	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

S = Total Number of "u" minus Total Number of "s" = 130

STEP 4. a) Critical Value: From Table A-2, $Z_{\alpha/2}$ (critical value at 5% significance level) = 1.645

STEP 4. b) Probability Value: $p\text{-value} = (P(Z > z_0) = 1 - z_p)$, where z_p from Table A-1 = 0.9993
 $p\text{-value} = 0.0007$

STEP 5. a) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of Z_0 is $> Z_{\alpha/2}$
 Since absolute value $z_0 = 3.1998 > 1.645$
 we reject the null hypothesis of no trend

STEP 5. b) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if $p\text{-value}$ is less than significance level = 0.05.
 Since $p\text{-value} = 0.0007 < 0.05$
 we reject the null hypothesis of no trend

Therefore: We reject the null hypothesis of no trend in favor of the alternative hypothesis (i.e. evidence of upward trend).

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well CW-3B Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/17/98	12/1/98	3/25/99	6/24/99	9/28/99	12/13/99	3/13/00	6/19/00	9/11/01	12/1/01	3/21/02	6/18/03	9/28/03	12/16/03	3/30/04	6/20/04	9/28/04	12/16/04	3/30/05	6/20/05	9/28/05	12/16/05	3/30/06	6/20/06	9/28/06	12/16/06	3/30/07	6/20/07	9/28/07	12/16/07	3/25/08	6/17/08	Count "+"	Count "-"					
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24	24	24	24	24	24	24	24	24	24	24				
Result (mg/L)	0.104	0.094	0.054	0.085	0.08	0.116	0.091	0.093	0.0939	0.0947	0.1251	0.099	0.1251	0.168	0.1765	0.189	0.274	0.537	0.262	0.262	0.326	0.347	0.298	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348				
	0.094	-	-	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	0.054	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	0.085	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
	0.08	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
	0.116	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
	0.091	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	0.093	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	0.0939	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	0.0947	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	0.1251	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	0.099	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.1251	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.168	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.1765	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.189	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.274	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.537	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.262	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.262	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.326	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.347	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	0.298	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
S = Total Number of "+" minus Total Number of "-" =																													210										
STEP 1. Null Hypothesis:	H ₀ : There is no trend.																																						
STEP 2. Alternative Hypothesis:	H _A : There is an upward trend.																																						
STEP 3. Test Statistics:	Where: sign(S) = 1 if S > 0, 0 if S = 0, and -1 if S < 0 and V(S) = 1/18(n(n-1)(2n+5) - [(t ₁ -1)(2t ₁ +5)+t ₂ (t ₂ -1)(2t ₂ +5)+... up to t _g])																																						
Where:	n (number of samples) = 24 t ₁ = number of tied samples in the first group = 2 t ₂ = number of tied samples in second group = 2 g = the number of tied sample groups																																						
V(S) =	1623.33																																						
z _α =	5.1873																																						
STEP 4. a) Critical Value:	From Table A-2, z _{0.05} (critical value at 5% significance level) = 1.645																																						
STEP 4. b) Probability Value:	p-value = (P(Z > z _α) = 1 - z _α , where z _α from Table A-1 = 0.9999 (off scale) p-value = 0.0001																																						
STEP 5. a) Conclusion:	For testing the hypothesis, H ₀ (no trend) against H _A - reject H ₀ if absolute value of z _α is > z _{0.05} Since absolute value z _α = 5.1873 > 1.645 we reject the null hypothesis of no trend																																						
STEP 5. b) Conclusion:	For testing the hypothesis, H ₀ (no trend) against H _A - reject H ₀ if p-value is less than significance level = 0.05. Since p-value = 0.0001 < 0.05 we reject the null hypothesis of no trend																																						
Therefore:	We reject the null hypothesis of no trend in favor of the alternative hypothesis (i.e. evidence of upward trend)																																						
Total "+"	242																																						
Total "-"	32																																						

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsvil/Andover Landfill
Wellsville, New York

Monitoring Well MW-4D Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/9/98	12/1/98	3/24/99	6/23/99	9/28/99	12/13/99	3/14/00	6/21/00	9/21/00	12/10/00	3/26/02	6/26/03	9/26/03	12/18/03	3/14/04	6/19/04	9/19/04	12/10/04	3/27/06	6/27/06	9/27/06	12/7/06	3/27/07	6/27/07	9/25/07	12/11/08	Count "+"	Count "-"	
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Result (mg/L)	1.83	15.3	1.784	6.774	11.25	6.81	2.35	3.07	2.0401	3.037	2.067	1.173	3.012	1.011	0.88	0.659	1.317	1.312	0.503	1.17	0.651	3.68	1.05	3.33	2.3	13	11		
1.83																													
15.3																													
1.784																													
6.774																													
11.25																													
6.81																													
2.35																													
3.07																													
2.0401																													
3.037																													
2.067																													
1.173																													
3.012																													
1.011																													
0.88																													
0.659																													
1.317																													
1.312																													
0.503																													
1.17																													
0.651																													
3.68																													
1.06																													
3.33																													
S = Total Number of "+" minus Total Number of "-" = -114																										Total "+"		Total "-"	

STEP 4. a) Critical Value: From Table A-2, $z_{0.95}$ (critical value at 5% significance level) = 1.645

STEP 4. b) Probability Value: $p\text{-value} = P(Z > z_c) = 1 - z_p$, where z_p from Table A-1 = 0.0041
 $p\text{-value} = 0.9959$

STEP 5. a) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of z_c is $> z_{0.95}$
 Since absolute value $z_c = 2.6391 > 1.645$
 we reject the null hypothesis of no trend

STEP 5. b) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if $p\text{-value}$ is less than significance level = 0.05.
 Since $p\text{-value} = 0.9959 > 0.05$
 we fail to reject the null hypothesis of no trend

Therefore: We fail to reject the null hypothesis of no trend at the 5% significance level (i.e. there is evidence of a downward trend but not enough to over rule no trend)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2000

Table 1
 Statistical Analysis of Groundwater Data (1988-2008)
 Wellsville/Andover Landfill
 Wellsville, New York

Monitoring Well MW-5D Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/9/98	12/1/98	3/23/99	6/23/99	9/26/99	12/14/99	3/14/00	9/20/00	4/24/01	9/12/01	4/11/02	9/25/02	4/2/03	12/18/03	6/9/04	12/9/04	6/22/05	12/7/05	3/29/06	9/26/06	3/27/07	9/25/07	3/26/08	9/17/08	Count "+"	Count "-"	Count "0"	
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	6	17		
Result (mg/L)	2.484	2.98	1.74	1.166	1.84	3.134	1.581	2.78	1.7073	4.4528	4.9869	1.19	1.66	2.1	2.5814	1.686	1.991	1.618	1.897	1.665	2.161	1.706	1.945	1.469	118	158	Total "+"	Total "-"
2.484	+	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	6	17		
2.98	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	3	19		
1.74	-	-	-	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	11	10		
1.166	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	0		
1.84	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	9		
3.134	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	16		
1.581	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15	2		
2.78	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	14		
1.7073	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	7		
4.4528	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	8	13		
4.9869	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	13		
1.19	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	12	0		
1.66	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	9	2		
2.1	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	8		
2.5814	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	5	3		
1.686	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	6		
1.991	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	5	3		
1.618	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	5	1		
1.897	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	3		
1.665	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	1		
2.161	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	1		
1.706	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1		
1.945	-	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	1		

S = Total Number of "+" minus Total Number of "-" = -40 **STEP 4. a) Critical Value:** From Table A-2, $z_{\alpha,0.95}$ (critical value at 5% significance level) = 1.645

STEP 1. Null Hypothesis: H_0 : There is no trend. **STEP 4. b) Probability Value:** p -value = $(P(Z > z_c)) = 1 - z_p$, where z_p from Table A-1 = 0.165
 p -value = 0.8350

STEP 2. Alternative Hypothesis: H_A : There is a downward trend. **STEP 5. a) Conclusion:** For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of z_c is $> z_{\alpha,0.95}$
 Since absolute value $z_c = 0.9674 < 1.645$
 we fail to reject the null hypothesis of no trend

STEP 3. Test Statistics: Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$
 $z_c = S - \text{sign}(S) / \sqrt{V(S)} * 0.5$
 and $V(S) = 1/18(n-1)(2n+5) - [(t_1+1)(2t_1+5) + t_2(t_2+1)(2t_2+5) + \dots \text{up to } t_g]$
 Where: n (number of samples) = 24
 t_1 = number of tied samples in the first group = 0
 t_2 = number of tied samples in second group = 0
 g = the number of tied sample groups
 $V(S) = 1625.33$
 $z_c = -0.9674$

Therefore: We fail to reject the null hypothesis of no trend (i.e. No trend / stable)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2008

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-5S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/9/98	12/1/98	3/24/99	6/23/99	12/16/99	3/14/00	9/20/00	4/23/01	9/12/01	4/11/02	9/26/02	3/28/03	12/18/03	6/9/04	12/9/04	6/22/05	12/7/05	3/29/06	9/28/06	3/27/07	9/25/07	3/26/08	9/17/08	Count "+"	Count "-"	
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Count "+"	Count "-"	
Result (mg/L)	3.06	4.796	0.116	2.413	5.14	2.03	2.41	1.6543	1.7	1.44	0.575	1.09	0.753	0.872	0.233	0.86	0.74	0.391	0.634	1.118	0.651	0.391	0.512	56	196	
3.06	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	20	
4.796	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	20	
0.116	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	0	
2.413	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	18	
5.14	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	18	
2.03	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	16	
2.41	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	16	
1.6543	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	16	
1.7	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	14	
1.44	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	14	
0.575	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	13	
1.09	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	14	
0.753	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	4	
0.872	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	
0.233	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	
0.86	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	
0.74	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	0	
0.391	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6	
0.634	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	
1.118	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	
0.651	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3	
0.391	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2	
																								1	0	
S = Total Number of "+" minus Total Number of "-" =																								-140		

STEP 4. a) Critical Value: From Table A-2, $Z_{0.05}$ (critical value at 5% significance level) = 1.645

STEP 4. b) Probability Value: p -value = $(P(Z > z_p) = 1 - z_p)$, where z_p from Table A-1 = 0.0001 (off scale)

STEP 5. a) Conclusion: p -value = 0.9999

STEP 5. b) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of Z_0 is $> Z_{0.05}$

Since absolute value $Z_0 = 3.6723 > 1.645$

we reject the null hypothesis of no trend

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p -value is less than significance level = 0.05.

Since p -value = 0.9999 $>$ 0.05

we fail to reject the null hypothesis of no trend

Therefore: We fail to reject the null hypothesis of no trend at the 5% significance level (i.e. there is evidence of a downward trend but not enough to over rule no trend)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-95, dated February 2006

1/2 detection limit used for non-detects.

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-11S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date Event	6/17/98 1	12/8/04 2	6/23/05 3	12/8/05 4	3/31/06 5	9/27/06 6	3/30/07 7	9/26/07 8	3/24/08 9	9/17/08 10	
Result (mg/L)	2.752	3.42	3.73	3.73	3.66	3.54	3.4	3.72	3.05	3.21	
2.752	+	+	+	+	+	+	+	+	+	+	
3.42		+		+		+		+		+	
3.73			+	0		-		-		-	
3.73						-		-		-	
3.66						-		+		-	
3.54						-		+		-	
3.4						-		+		-	
3.72						+		-		-	
3.05						+		-		+	
										Count "+"	Count "-"
										9	0
										5	3
										0	6
										0	6
										1	4
										1	3
										1	2
										0	2
										1	0
										18	26
										Total "+"	Total "-"

S = Total Number of "+" minus Total Number of "-" = -8

STEP 4. a) Critical Value:

From Table A-2, $z_{0.95}$ (critical value at 5% significance level) = 1.645

STEP 1. Null Hypothesis: H_0 : There is no trend.

STEP 4. b) Probability Value:

p-value = $P(Z > z_0) = 1 - Z_{p^*}$ where z_p from Table A-1 = 0.2648

STEP 2. Alternative Hypothesis: H_A : There is a downward trend.

STEP 5. a) Conclusion:

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of z_0 is $> Z_{0.95}$
Since absolute value $z_0 = 0.6286 < 1.645$
we fail to reject the null hypothesis of no trend

STEP 3. Test Statistics: $z_0 = S - \text{sign}(S) / \sqrt{V(S)}$
Where: n (number of samples) = 10
 t_1 = number of tied samples in the first group = 2
 t_2 = number of tied samples in second group = 0
 g = the number of tied sample groups

STEP 5. b) Conclusion:

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p-value is less than significance level = 0.05.
Since p-value = 0.7352 $>$ 0.05
we fail to reject the null hypothesis of no trend

$V(S) = 124.00$
 $z_0 = -0.6286$

Therefore: We fail to reject the null hypothesis of no trend (i.e. No trend / stable)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-15S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/17/98	3/25/99	12/16/99	3/13/00	4/26/00	9/21/00	4/10/01	9/11/01	4/10/02	3/31/03	12/16/03	6/8/04	12/8/04	12/7/05	3/30/06	9/28/06	3/29/07	9/26/07	3/24/08	9/16/08	9/17/08	Count "+"	Count "-"
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Result (mg/L)	0.103	0.027	0.073	0.037	0.04	0.0276	0.0286	0.025	0.014	0.0262	0.036	0.011	0.015	0.0463	0.0488	0.02	0.031	0.016	0.0416				
0.103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19	
0.027	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	11	7	
0.073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	17	
0.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	11	
0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11	
0.0276	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	4	11	
0.0286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	
0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	
0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	
0.0262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	
0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	1	
0.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	
0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	
0.0463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	0	
0.0488	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	0	
0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	
0.031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	
0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	
0.0416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0	
0.0416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	
																					83	106	

S = Total Number of "+" minus Total Number of "-" = -23

STEP 1. Null Hypothesis: H_0 : There is no trend.

STEP 2. Alternative Hypothesis: H_A : There is a downward trend.

STEP 3. Test Statistics:

$Z_0 = S - \text{sign}(S) / \sqrt{V(S)}$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$
and $V(S) = 1/18(n(n-1)(2n+5) - [(t_1(t_1-1)(2t_1+5) + t_2(t_2+5) + \dots + t_k)]$

Where: n (number of samples) = 20

t_1 = number of tied samples in the first group = 2

t_2 = number of tied samples in second group = 0

g = the number of tied sample groups

$V(S) = 949.00$

$Z_0 = -0.7142$

Therefore:

We fail to reject the null hypothesis of no trend (i.e. No trend / stable)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

1/2 detection limit used for non-detects.

STEP 4. a) Critical Value: From Table A-2, $Z_{0.95}$ (critical value at 5% significance level) = 1.645

STEP 4. b) Probability Value: p -value = $P(Z > Z_0) = 1 - Z_p$ where Z_p from Table A-1 = 0.2376
 p -value = 0.7624

STEP 5. a) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of Z_0 is $> Z_{0.95}$
Since absolute value $Z_0 = 0.7142 < 1.645$

we fail to reject the null hypothesis of no trend

STEP 5. b) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p -value is less than significance level = 0.05.

Since p -value = 0.7624 $>$ 0.05

we fail to reject the null hypothesis of no trend

Table 1
 Statistical Analysis of Groundwater Data (1998-2008)
 Wellsville/Andover Landfill
 Wellsville, New York

Monitoring Well MW-18S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/15/98	12/1/98	3/26/99	6/28/99	9/29/99	12/20/99	3/21/00	9/21/00	4/30/01	9/11/01	4/12/02	9/25/02	4/3/03	12/17/03	6/11/04	12/8/04	6/23/05	12/6/05	3/28/06	9/27/06	3/28/07	9/25/07	3/26/08	9/16/08	Count "+"	Count "-"	Count "0"	Total "+"	Total "-"	Total "0"
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Count "+"	Count "-"	Count "0"	Total "+"	Total "-"	Total "0"
Result (mg/L)	0.024	0.026	0.018	0.038	0.04	0.049	0.087	0.139	0.097	0.132	0.155	0.123	0.134	0.157	0.117	0.167	0.197	0.155	0.099	0.152	0.097	0.0052	0.074	0.0141	Count "+"	Count "-"	Count "0"	Total "+"	Total "-"	Total "0"
	0.024	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	20	3	3	171	103	0
	0.026	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	19	2	2	171	103	0
	0.018	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	19	2	2	171	103	0
	0.038	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	18	2	2	171	103	0
	0.04	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	17	2	2	171	103	0
	0.049	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	16	2	2	171	103	0
	0.087	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	14	2	2	171	103	0
	0.139	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	14	2	2	171	103	0
	0.132	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	6	3	3	171	103	0
	0.097	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	11	3	3	171	103	0
	0.155	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	7	3	3	171	103	0
	0.123	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	3	9	9	171	103	0
	0.134	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	6	6	6	171	103	0
	0.157	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	5	6	6	171	103	0
	0.117	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	2	8	8	171	103	0
	0.167	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	4	5	5	171	103	0
	0.197	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	1	7	7	171	103	0
	0.155	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	0	9	9	171	103	0
	0.099	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	0	6	6	171	103	0
	0.152	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	1	4	4	171	103	0
	0.097	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	0	0	0	171	103	0
	0.052	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	0	2	2	171	103	0
	0.074	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	0	0	0	171	103	0

S = Total Number of "+" minus Total Number of "-" = 68

STEP 4. a) Critical Value: From Table A-2, $z_{0.95}$ (critical value at 5% significance level) = 1.645

STEP 4. b) Probability Value: $p\text{-value} = (P(Z > z_0)) = 1 - z_p$, where z_p from Table A-1 = 0.9516
 $p\text{-value} = 0.0482$

STEP 5. a) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of z_0 is $> z_{0.95}$
 Since absolute value $z_0 = 1.6529 > 1.645$
 we reject the null hypothesis of no trend

STEP 5. b) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p-value is less than significance level = 0.05.
 Since p-value = 0.0482 < 0.05
 we reject the null hypothesis of no trend

Therefore: We reject the null hypothesis of no trend in favor of the alternative hypothesis (i.e. evidence of upward trend)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 2

**2009 Proposed Monitoring Program
Wellsville/Andover Landfill**

Location	Current Sampling Frequency	Proposed Sampling Frequency	Proposed Analyte List ¹
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Groundwater

CW-3A	Semiannual	NR	NR
CW-3B	Semiannual	Annual - Fall	Field, VOCs, Metals
CW-4A	Annual	NR	NR
CW-4B	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-15DA	Semiannual	NR	NR
MW-15S	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-17D	Annual	Annual - Fall	Field, VOCs, Metals
MW-17S	Annual	Annual - Fall	Field, VOCs, Metals
MW-18D	Annual	Annual - Fall	Field, VOCs, Metals
MW-18S	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-1D	Annual	NR	NR
MW-3D	Annual	Annual - Fall	Field, VOCs, Metals
MW-3S	Annual	Annual - Fall	Field, VOCs, Metals
MW-4D	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-5D	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-5S	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-11S	Semiannual	Annual - Fall	VOCs
MW-16S	Semiannual	Annual - Fall	VOCs

Surface Water

SWS-1	Annual	Annual	Field, VOCs, Metals, Wet Chem
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Sediment

SWS-1	Annual	NR	NR
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Groundwater Cut-Off System

MH-32	Semiannual	Annual - Fall	Field, VOCs, Metals, Wet Chem
MH-33	Semiannual	Annual - Fall	Field, VOCs, Metals, Wet Chem

Leachate

LS-1	Semiannual	Annual - Fall	Field, VOCs, Metals
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Notes

NR - Not required unless site conditions warrant (i.e., significant leachate breakout, leachate spill, etc.)

¹ - Field = Field Parameters (pH, Conductivity, Dissolved Oxygen, Turbidity, Oxidation Reduction Potential)

- VOCs = Volatile Organic Compounds method 8260

- Metals = As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, P, Se, Na, Z

- Wet Chem = Nitrate Nitrogen and Total Dissolved Solids

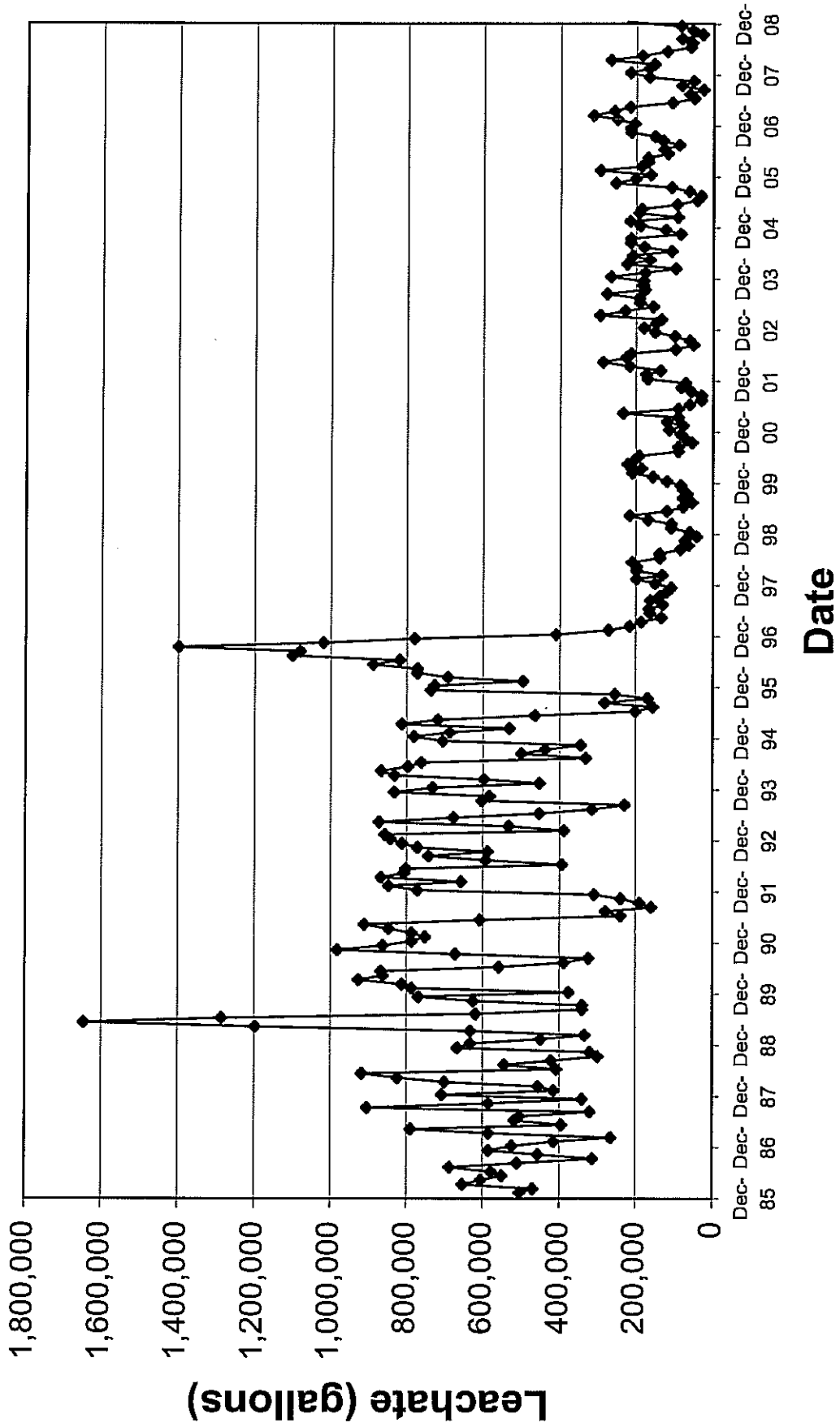
² WAL-19 tested for VOCs prior to filters, between filters and after filters

Location	Current Sampling Frequency	Proposed Sampling Frequency	Proposed Analyte List ¹
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Residential Water Supply

WAL-1	Every 3 Years	NR	NR
WAL-2	Semiannual	Annual	Metals
WAL-3	Every 3 Years	NR	NR
WAL-4	Every 3 Years	NR	NR
WAL-5	Semiannual	Annual	VOCs, Metals
WAL-6	Every 3 Years	NR	NR
WAL-7	Every 3 Years	NR	NR
WAL-8	Every 3 Years	NR	NR
WAL-9	Every 3 Years	NR	NR
WAL-10	Every 3 Years	NR	NR
WAL-11	Every 3 Years	NR	NR
WAL-12	Every 3 Years	NR	NR
WAL-13	Every 3 Years	NR	NR
WAL-14	Every 3 Years	NR	NR
WAL-15	Every 3 Years	NR	NR
WAL-16	Every 3 Years	NR	NR
WAL-17	Every 3 Years	NR	NR
WAL-18	Every 3 Years	NR	NR
WAL-19	Semiannual	Semiannual	VOCs ²
WAL-20	Every 3 Years	NR	NR

Leachate Quantity Wellsville-Andover Landfill



New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 9

270 Michigan Avenue, Buffalo, New York 14203-2915

Phone: (716) 851-7220; Fax (716) 851-7226

Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

May 12, 2009

William Whitfield
Director of Public Works
Village of Wellsville
200 Bolivar Road
Wellsville, New York 14895

Dear Mr. Whitfield:

Wellsville-Andover Landfill
Site hw902004
Wellsville, Alleghany County

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed the Site Monitoring Evaluation and Proposed Revised Monitoring Plan dated April 3, 2009, for the Wellsville-Andover Landfill site. This plan recommends modification of the environmental sampling for the landfill and the surrounding residences. Based on this review, the following determinations regarding the sampling frequency have been made.

Groundwater Monitoring Well CW-3A

This overburden monitoring well has increasing Volatile Organic Compounds (VOC) contamination and should be retained for annual sampling for field, VOC and metal analytes. It monitors a different interval of the overburden formation than the neighboring CW-3B monitoring well. The location is adjacent and downgradient from the landfill and could be an important sentinel well if the groundwater flow patterns should change.

Groundwater Monitoring Wells CW-3B, CW-4B, MW-15S, MW-17D, MW-17S, MW-18D, MW-18S, MW-3D, MW-3S

We concur with the proposed annual frequency and the proposed analyte list for these monitoring wells.

William D. Whitfield

May 12, 2009

Page 2

Groundwater Monitoring Well CW-4A

This monitoring well should be retained for annual sampling since it monitors a different interval of the overburden formation than the neighboring CW-4B. The location is adjacent and downgradient from the landfill and could be an important sentinel well if the groundwater flow patterns should change.

Groundwater Monitoring Well MW-15DA

This bedrock well has not been sampled following the remedial action since it has been dry. We concur with the removal from the required sampling list. This monitoring well should be decommissioned.

Groundwater Monitoring Well MW-1D

This monitoring well can also be decommissioned. MW-3S and MW-3D can both function as the upgradient monitoring wells. We concur with the deletion from the sampling schedule. This monitoring well is located at too great a distance to be useful as an upgradient well.

Groundwater Monitoring Wells MW-4D, MW-5D, MW-5S, MW-11S and MW-16S

These monitoring wells should all be sampled annually for the field, VOCs and metals parameters. In addition, there should be a sampling round in the spring for VOCs only. The VOCs in MW-4D, MW-5D, MW-5S and MW-11S are of concern to the Departments. In addition, groundwater concentrations in the sentinel landfill well MW-16 is of particular concern, since it is the furthest downgradient monitoring well from the landfill. If MW-16 becomes contaminated, there should be an assessment of both the remedy and the downgradient monitoring and residential sampling.

Surface Water and Sediment Sampling – SWS-1

Since these monitoring points are potential exposure points, they should be monitored annually for the field, VOCs and metals parameters. In addition the surface water and sediment sampling should be sampled for the full wet chemistry list that it currently in effect.

Groundwater Cut-Off System MH-32, MH-33 and Leachate LS-1

We concur with the proposed sampling frequency and analyte list for these sampling points.

Recommendation to discontinue sampling of several residential wells

We concur with the recommendation to discontinue sampling at the following residential wells currently within the sampling program:

WAL-1:Shettine Residence; WAL-16 Cornell Residence

No site-related constituents have been detected in these wells at concentrations that exceed NYSDOH standards for public drinking water supplies. Additionally, given that the WAL-1 residence is currently unoccupied and the WAL-16 residence is significantly distant from the landfill, we agree with the recommendation to discontinue sampling of these wells.

WAL-3: Gephart Residence; WAL-4: Hanabach Residence; WAL-8: Dodge Residence; WAL-9: Greene Residence; WAL-10: Schettine Residence; WAL-14 Carl Residence; WAL-18: Geffer Residence; WAL-13: Wispel Residence; WAL-15: Kelly Residence

Sodium has been detected in these residential wells at concentrations that exceed NYSDOH public drinking water standards. Standards for sodium were originally based on aesthetic and taste properties, and the NYSDOH public drinking water supply guideline for people on severely restricted sodium diet is no more than 20 mg/L of sodium. If concerned about sodium intake, the homeowner may wish to use an alternate supply of water for drinking and cooking purposes. While semi-volatile organic compounds have been detected sporadically in several sampling events, these compounds were detected at concentrations significantly lower than the NYSDOH public drinking water standards. Based on this information, we agree with the recommendation to discontinue sampling of these wells.

WAL-6: Cimino Residence

Iron and manganese have been detected at concentrations that exceed NYSDOH public drinking water standards in two sampling events. However, no compounds were detected at levels which exceed NYSDOH drinking water standards in the last three of the six sampling events completed. Based on this information, we agree with the recommendation to discontinue sampling of this well.

WAL-11: Urban Residence

Iron has been historically detected in WAL-11 at concentrations that exceed NYSDOH public drinking water standards. However, levels of iron detected in the last of the twelve sampling events completed did not exceed drinking water standards. Standards for iron were based on aesthetic properties and were set to prevent problems such as poor taste, odor and fixture staining. Given this information, we concur with the recommendation to discontinue sampling of this well.

WAL-12: Blaske Residence

Iron and sodium have been detected in this residential well during the three completed sampling events at concentrations that exceed NYSDOH public drinking water standards. Standards for sodium and iron were based on aesthetic and taste properties, and the NYSDOH public drinking water supply guideline for people on severely restricted sodium diet is no more than 20 mg/L of sodium. If concerned about sodium intake, the homeowner may wish to use an alternative supply of water for drinking and cooking purposes. Based on this information, we concur with the recommendation to discontinue sampling of this well.

WAL-17: Meisenzhal Residence

Iron and sodium have been detected at WAL-17 at concentrations that exceed NYSDOH public drinking water standards. Standards for sodium and iron were based on aesthetic and taste properties, and the NYSDOH public drinking water supply guideline for people on a severely restricted sodium diet is no more than 20 mg/L of sodium. If concerned about sodium intake, the homeowner may wish to use an alternate supply of water for drinking and cooking purposes. Based on this information, we agree with the proposal to discontinue sampling of this well.

WAL-20: Fanton Residence

Current sampling frequency: every three years

Proposed sampling frequency: discontinue sampling

Three sampling events have been completed since the granulated activated carbon filter system was removed from WAL-20 in January of 2007 (subsequent to placement of a new drinking water well in 2005). With the exception of sodium, no site-related constituents have been detected in WAL-20 at levels that exceed applicable standards. Additionally, this well is located a substantial distance from the landfill. Based on this information, we agree with the recommendation to discontinue sampling of this well.

Recommendation to modify sampling frequency

We concur with the recommendation to modify the sampling frequency at the following residential wells currently within the sampling program:

WAL-2: Rossini Residence

Inorganic compounds (metals), including sodium, iron and manganese have historically been detected in WAL-2 at concentrations that exceed NYSDOH public drinking water standards. We understand that this residence is adjacent to the Wellsville-Andover landfill, is occupied seasonally and that the homeowner uses bottled water as a source of potable water while in-residence. Given this information, we concur with the recommendation of annual sampling for metals compounds. This is reduced from semi-annual sampling for inorganic compounds.

William D. Whitfield
May 12, 2009
Page 5

WAL-5: Ormsby Residence

Volatile organic compounds, including cis-1,2-dichloroethene and trichloroethene and metals compounds have been detected at low concentrations (below NYSDOH drinking water standards) in WAL-5. The concentrations of these compounds has remained relatively consistent over semi-annual sampling events completed from 1998 to 2002 and have not been detected in the last twelve sampling events. Based on this information, we concur with the recommendation to reduce the sampling frequency from semi-annual to annual sampling.

WAL-19: LaDue Residence

We concur with the recommendation to continue semi-annual sampling.

Although a review of the available data supports the proposed modifications to the sampling program, it should be noted that, should conditions change additional sampling or re-sampling of the environmental media may be warranted and requested by either NYSDOH or NYSDEC.

If you have any questions, please contact me at 716-851-7220.

Sincerely,

Linda C. Ross

Linda C. Ross
Project Manager
Division of Environmental Remediation

LCR/tml

cc: Mr. Jonathan Brandes, On-Site Technical Services, Inc
Ms. Tamara Girard, NYSDOH

Jon Brandes

From: "Linda Ross" <lcross@gw.dec.state.ny.us>
To: "Jon Brandes" <Jonb@on-sitehs.com>
Cc: "Tamara Girard" <tsg01@health.state.ny.us>; "William Whitfield" <billwhitfield@wellsvilleny.com>
Sent: Friday, May 22, 2009 1:15 PM
Attach: MON PROGRAM REV Table.xls
Subject: Fwd: Wellsville Andover Landfill

Jon, I agree with your proposal below in the email and the attached monitoring schedule. Please continue with the landfill gas monitoring, since they are potential exposure points. Thanks. L.

Linda C. Ross
Engineering Geologist I
New York State Department of Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999
lcross@gw.dec.state.ny.us
office: 716. 851. 7220
fax: 716. 851. 7226

>>> "Jon Brandes" <Jonb@on-sitehs.com> 5/22/2009 11:59 AM >>>
Linda,

Based on your response to the site evaluation and proposed monitoring program, we have revised the monitoring program table - please see attached. We will follow this schedule starting with the fall event. One item that was not commented on is the request to discontinue landfill gas monitoring. Please provide comment.

Also I propose the following for reporting:

- 1) The spring 2009 sampling event was completed following the old monitoring schedule and the typical report will be completed.
- 2) For each future spring and fall event a letter report will be prepared once analytical results are received. The letter report will present the results of the monitoring event.
- 3) A annual report each year similar to previous annual reports.

Thanks and have a great holiday weekend!!

Jon Brandes, P.G.
Senior Geologist
On-Site Technical Services, Inc.
72 Railroad Ave
Wellsville, NY 14895
Phone: 585-593-1824
Fax: 585-593-7471

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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May 19, 2021

William Whitfield
Village of Wellsville
200 Bolivar Road
Wellsville, NY 14895

Re: Site Management (SM) -
Groundwater Sampling Modification
Wellsville-Andover Landfill, Wellsville
Allegany County, Site No.: **902004**

Dear William Whitfield (as the Certifying Party):

The Department has reviewed your letter, received May 13, 2021, regarding potential grants to assist with onsite sampling. Unfortunately, no grants or assistance are available from the Department.

In order to diminish sampling costs onsite, the Department has reviewed the groundwater monitoring wells that are sampled semi-annually and annually. Going forward, please only conduct annual groundwater sampling in the Fall. Additionally, MW-15S, MW-16S, and MW-3S can be removed from the monitoring program. If the Village and On-Site Geological Services (On-Site) believe additional monitoring parameters or frequencies should be modified, please submit a proposal letter to the Department for review.

In regard to the requested emergent contaminant sampling, additional onsite sampling is being requested in order to further characterize the site. The three samples collected in 2018 did not give an encompassing representation of emergent contaminant concentrations over the entire site. An additional round of sampling at the monitoring wells CW-3A/3B, CW-4A/4B, MW-5S/5D, and MW-17S/17D will provide additional details on the location of emergent contaminants and be used to determine if further sampling is warranted. After these eight samples are collected, the Village and On-Site can indicate to the Department if they believe additional emergent contaminant sampling is warranted at each location.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,



Megan Kuczka

Environmental Program Specialist – 1



Department of
Environmental
Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

270 Michigan Avenue, Buffalo, NY 14203-2915

P: (716) 851-7220 | F: (716) 851-7226

www.dec.ny.gov

ec: Andrea Caprio – NYSDEC
James Sullivan – NYSDOH
Charlotte Bethoney - NYSDOH
Jon Brandes – On-Site Geological Services, D.P.C.
Randy Shayler – Village of Wellsville
Melissa Mullen – Village of Wellsville

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April 26, 2022

Dean Arnold
Village of Wellsville
200 Bolivar Road
Wellsville, NY 14895

Re: Site Management (SM) –
Periodic Review Report (PRR) Response Letter
Wellsville-Andover Landfill, Wellsville
Allegany County, Site No.: **902004**

Dear Dean Arnold (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for the following period: February 15, 2021 to February 15, 2022. The Department hereby accepts the PRR and IC/EC Certification.

The frequency of Periodic Reviews for this site is once a year, and your next PRR will be due on March 17, 2023. You should receive a reminder letter and updated certification form 75-days prior to the report's 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.

The Department has assessed the emergent contaminant sampling results detailed within the 2021-2022 PRR and requests that CW-3B, CW-4A, CW-4B, and MW-17S continue to be sampled annually for emergent contaminants (PFAS and 1,4-dioxane). Additionally, please sample MW-5D annually for 1,4-dioxane only. Sampling of these wells are being requested to track onsite concentrations in excess of the Drinking Water Quality Council screening thresholds and the Department's Draft Guidance Values for Emergent Contaminants.

As noted within the 2021-2022 PRR, please replace Leachate Pump 2 during the 2022-2023 Certifying Period. Additionally, hard copies of the quarterly inspection and maintenance checklist no longer need to be mailed to the Department. Please send an electronic copy only.

Within future PRR submittals, please complete the following revisions:

- Some of the laboratory reporting limits are above the corresponding groundwater quality standard/guidance values (GWQS/V). Please ensure reporting limits are below GWQS/V where applicable
- Convert PFAS data to ng/L
- Indicate the NYSDEC PFAS guidance values are in draft form
- Bold or highlight any exceedances of GWQS/V or Class C Standards in the tables

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- Add the applicable GWQS/V, Class C Standards, and/or NYSDOH MCL to each Table
- Revise Figure 1 to detail the 19 acre site boundary only
- Include the Residential Water Supply results letters as an appendix

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,



Megan Kuczka
Environmental Program Specialist – 1

ec: Andrea Caprio – NYSDEC
Jim Sullivan – NYSDOH
Charlotte Bethoney – NYSDOH
Deb Harvey – Village of Wellsville
Jon Brandes – On-Site Geological Services, D.P.C.

Appendix C

Spring/Fall

Field Forms

Spring 2022

Field Forms

On-Site Geological Services, D.P.C. Groundwater Cutoff, Leachate, Surface Water, Sediment, Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 5-18-22

Sampling Location: SWS-1 Sample ID: SWS1-0522 Arrival Time: 1041

Weather Conditions

Temp. 58° F () Sunny (X) Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Location Type

() Groundwater Cutoff, () Leachate, (X) Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: 3-4" Estimated Flow: < 1 GPM Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 204101689), Hach 2100P (sn: 001656)
Measured in: (X) Directly Submerged Probe () Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1100</u>	<u>7.75</u>	<u>628.1</u>	<u>2.08</u>	<u>7.01</u>	<u>13.0</u>	<u>175.6</u>

Sample Information

Sample Type: (X) Grab () Composite Sample Location: () Discharge Pipe () Pond (X) Ditch () Leachate Sump

Location Description/Condition: _____

Sample Collection Equipment/Method: dipper Sample Description (clarity/color): Clear No Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: _____ Sample Time: 1100 Number of Containers: 10

Sampling Completion: Time 1131 Date 5-18-22 Samplers K Dye

On-Site Geological Services, D.P.C. Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 5/18/22

Sampling Location: WAL-19 Sample ID: WAL19 Pre-0522
WAL19 Inbr-0522
WAL19 Post-0522 Arrival Time: 1005

Weather Conditions

Temp. 55 ° F Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Sample Information

Pre = Prior to Filters

Sample Type: Grab () Composite

Sample Location: Post = Kitchen Sink, Inbr = between Filters

Location Description/Condition: Kitchen - water treatment in Basement

Sample Collection Equipment/Method: Grab direct Sample Description (clarity/color): Clear No Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: VOCS Sample Time: Pre - 1030
Inbr - 1030 Number of Containers: 9
Post - 1040

Comment: _____

Sampling Completion: Time 1029 Date 5-18-22 Samplers K DyE

Fall 2022

Field Forms

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-20-22

Monitoring Well: CW-3A Sample ID: CW3A-1022 Arrival Time: 0925

Weather Conditions

Temp 38 ° F Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 with gusts

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 27.47 ft – SWL: 9.79 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.8 gals Purge Vol: 3.0 gals.

Start Purge: 0935 Pumping Rate: 101 ^{sec} /500 mL Purge Duration: 1035 ^{hr} Start Sampling: 1035

Purging Method: () Bladder Pump # 3 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 142100804), Hach 2100P (sn: 001656) Measured in: Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.0</u>	<u>1015</u>	<u>11.90</u>	<u>1474</u>	<u>3.23</u>	<u>8.81</u>	<u>5.8</u>	<u>102.2</u>	<u>18.48</u>
<u>2.25</u>	<u>1020</u>	<u>11.94</u>	<u>1478</u>	<u>2.23</u>	<u>9.02</u>	<u>5.4</u>	<u>100.8</u>	<u>19.43</u>
<u>2.5</u>	<u>1025</u>	<u>11.99</u>	<u>1480</u>	<u>1.3</u>	<u>9.16</u>	<u>5.1</u>	<u>98.2</u>	<u>20.38</u>
<u>2.75</u>	<u>1030</u>	<u>11.98</u>	<u>1484</u>	<u>3.22</u>	<u>9.28</u>	<u>4.9</u>	<u>97.4</u>	<u>21.20</u>
<u>3.0</u>	<u>1035</u>	<u>12.01</u>	<u>1479</u>	<u>1.15</u>	<u>9.42</u>	<u>4.9</u>	<u>96.3</u>	<u>21.78</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No color Sample Odor: No odor

Other Observations/Comments: Purge Slow Draws

Analysis Requested: Voc's + Metals Number of Containers: 4

Well Sampling Completion: Date 10-20-22 Time 1051 Samplers KDye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-18-22

Monitoring Well: CW-3B Sample ID: CW3B-1027 Arrival Time: 0822

Weather Conditions

Temp. 37 ° F () Sunny Partly Cloudy () Cloudy Light Rain () Hvy. Rain () Snow

Wind Conditions: Steady Wind

Well Condition Checklist

Bump posts: N/A Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 37.70 ft – SWL: 20.78 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.7 gals Purge Vol: 2.4 gals.

Start Purge: 0900 Pumping Rate: 108 sec / 500 mL Purge Duration: 1 hr 5 min Start Sampling: 1005

Purging Method: Bladder Pump # PFAS () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 142100804), Hach 2100P (sn: 001656) Measured in: Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.6</u>	<u>0945</u>	<u>6.53</u>	<u>602.6</u>	<u>3.54</u>	<u>1.13</u>	<u>7.7</u>	<u>140.9</u>	<u>22.58</u>
<u>1.8</u>	<u>0950</u>	<u>6.57</u>	<u>604.4</u>	<u>2.95</u>	<u>1.05</u>	<u>7.8</u>	<u>138.7</u>	<u>22.74</u>
<u>2.0</u>	<u>0955</u>	<u>6.58</u>	<u>602.3</u>	<u>3.32</u>	<u>1.08</u>	<u>7.8</u>	<u>136.0</u>	<u>22.92</u>
<u>2.25</u>	<u>1000</u>	<u>6.59</u>	<u>604.3</u>	<u>3.59</u>	<u>0.83</u>	<u>8.0</u>	<u>137.9</u>	<u>23.08</u>
<u>2.4</u>	<u>1005</u>	<u>6.59</u>	<u>604.9</u>	<u>3.40</u>	<u>0.96</u>	<u>7.8</u>	<u>139.6</u>	<u>23.32</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: PFAS Pump Sample clarity/color: Clear No color Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: VOCS + Metals + EC Number of Containers: 8

Well Sampling Completion: Date 10-18-22 Time 1034 Samplers K D/E

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-19-22

Monitoring Well: CW-4A Sample ID: CW4A-1022

Arrival Time: 0753

Weather Conditions

Temp. 37 ° F () Sunny Partly Cloudy () Cloudy () Light Rain () Hvy. Rain Snow ^{light}

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 19.12 ft – SWL: 6.60 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.0 gals Purge Vol: 3.0 gals.

Start Purge: 0820 Pumping Rate: _____ /500 mL Purge Duration: 1hr Start Sampling: 0920

Purging Method: Bladder Pump # PFAS () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 001656) Measured in: Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.0</u>	<u>0900</u>	<u>6.29</u>	<u>278.6</u>	<u>19.0</u>	<u>7.69</u>	<u>9.9</u>	<u>107.2</u>	<u>9.82</u>
<u>2.25</u>	<u>0905</u>	<u>6.31</u>	<u>278.8</u>	<u>18.9</u>	<u>7.48</u>	<u>9.8</u>	<u>105.6</u>	<u>10.15</u>
<u>2.5</u>	<u>0910</u>	<u>6.32</u>	<u>279.1</u>	<u>18.1</u>	<u>7.27</u>	<u>9.7</u>	<u>106.2</u>	<u>10.33</u>
<u>2.75</u>	<u>0915</u>	<u>6.31</u>	<u>279.3</u>	<u>15.9</u>	<u>7.25</u>	<u>9.9</u>	<u>106.8</u>	<u>10.68</u>
<u>3.0</u>	<u>0920</u>	<u>6.33</u>	<u>279.9</u>	<u>9.61</u>	<u>7.31</u>	<u>9.7</u>	<u>106.6</u>	<u>10.92</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: Voc's + Metals + EC Number of Containers: 8

Well Sampling Completion: Date 10-19-22 Time 0932 Samplers KJE

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-18-22

Monitoring Well: CW-4B Sample ID: CW4B-1022 Arrival Time: 1137

Weather Conditions

Temp. 40 ° F () Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: Steady wind

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 30.16 ft – SWL: 5.62 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 3.9 gals Purge Vol: 2.9 gals.

Start Purge: 1155 Pumping Rate: 118 gal /500 mL Purge Duration: 1 hr Start Sampling: 1255

Purging Method: () Bladder Pump # PFRS () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 142100804), Hach 2100P (sn: 001656) Measured in: () Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.8</u>	<u>1235</u>	<u>6.65</u>	<u>348.7</u>	<u>0.94</u>	<u>4.13</u>	<u>9.3</u>	<u>188.5</u>	<u>11.07</u>
<u>2.25</u>	<u>1240</u>	<u>6.61</u>	<u>351.4</u>	<u>0.78</u>	<u>4.03</u>	<u>10.1</u>	<u>193.1</u>	<u>11.58</u>
<u>2.5</u>	<u>1245</u>	<u>6.60</u>	<u>350.8</u>	<u>0.73</u>	<u>4.21</u>	<u>10.1</u>	<u>194.9</u>	<u>11.75</u>
<u>2.75</u>	<u>1250</u>	<u>6.59</u>	<u>352.2</u>	<u>0.90</u>	<u>4.29</u>	<u>10.1</u>	<u>193.1</u>	<u>12.0</u>
<u>2.9</u>	<u>1255</u>	<u>6.58</u>	<u>353.5</u>	<u>0.57</u>	<u>4.42</u>	<u>9.9</u>	<u>194.8</u>	<u>12.27</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No color Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: VOC's + Metals + EC Number of Containers: 8

Well Sampling Completion: Date 10-18-22 Time 1312 Samplers K Oye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-20-22

Monitoring Well: MW-3D Sample ID: MW3D-1022 Arrival Time: 0816

Weather Conditions

Temp. 37 ° F Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 46.75 ft – SWL: 21.70 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 4.0 gals Purge Vol: 1.0 gals.

Start Purge: 0820 Pumping Rate: 450 ^{sec} /500 mL Purge Duration: 50 min Start Sampling: 0910

Purging Method: () Bladder Pump # Rencil () Grundfos Pump () Bail () Peristaltic Pencil Bladder

Field Parameters

Meters: YSI (sn: 14100804), Hach 2100P (sn: 001656) Measured in: Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>0.5</u>	<u>0850</u>	<u>10.62</u>	<u>430.4</u>	<u>0.33</u>	<u>5.29</u>	<u>5.1</u>	<u>227.1</u>	<u>22.97</u>
<u>0.6</u>	<u>0855</u>	<u>10.65</u>	<u>424.1</u>	<u>0.21</u>	<u>5.47</u>	<u>5.3</u>	<u>219.9</u>	<u>23.39</u>
<u>0.75</u>	<u>0900</u>	<u>10.68</u>	<u>419.9</u>	<u>0.20</u>	<u>5.78</u>	<u>5.2</u>	<u>217.4</u>	<u>23.79</u>
<u>0.9</u>	<u>0905</u>	<u>10.72</u>	<u>417.5</u>	<u>0.39</u>	<u>5.91</u>	<u>5.1</u>	<u>216.0</u>	<u>24.09</u>
<u>1.0</u>	<u>0910</u>	<u>10.75</u>	<u>415.8</u>	<u>0.34</u>	<u>6.11</u>	<u>5.5</u>	<u>214.6</u>	

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Rencil Pump Sample clarity/color: Clear No Odor Sample Odor: _____

Other Observations/Comments: YSI 17D108273 confirmed pH. Started Purge 8.50 PH went to 7.06 then Climbed int 10s

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Date 10-20-22 Time 0920 Samplers KDE

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-19-22

Monitoring Well: MW-4D Sample ID: MW4D-1022

Arrival Time: 1252

Weather Conditions

Temp. 37° F () Sunny () Partly Cloudy (X) Cloudy () Light Rain () Hvy. Rain (X) Snow

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: ok Surface pad: ok

Well Visibility (paint): ok Well Label: ok Comment: _____

Depth & Purging Information

TD: 24.63 ft – SWL: 15.40 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.5 gals Purge Vol: 2.1 gals.

Start Purge: 1300 Pumping Rate: 129 ^{sec}/500 mL Purge Duration: 1hr Start Sampling: 1400

Purging Method: (X) Bladder Pump # 3 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 001656) Measured in: (X) Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.3</u>	<u>1340</u>	<u>6.17</u>	<u>220.3</u>	<u>1.85</u>	<u>6.12</u>	<u>6.5</u>	<u>29.1</u>	<u>19.04</u>
<u>1.5</u>	<u>1345</u>	<u>6.20</u>	<u>227.0</u>	<u>1.99</u>	<u>6.32</u>	<u>6.7</u>	<u>30.3</u>	<u>19.55</u>
<u>1.75</u>	<u>1350</u>	<u>6.19</u>	<u>225.7</u>	<u>2.13</u>	<u>6.06</u>	<u>6.7</u>	<u>29.6</u>	<u>20.14</u>
<u>1.9</u>	<u>1355</u>	<u>6.23</u>	<u>222.3</u>	<u>2.30</u>	<u>5.96</u>	<u>6.5</u>	<u>31.2</u>	<u>20.44</u>
<u>2.1</u>	<u>1400</u>	<u>6.21</u>	<u>221.1</u>	<u>1.94</u>	<u>5.99</u>	<u>6.6</u>	<u>33.2</u>	<u>20.76</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No color Sample Odor: Slight earthy odor

Other Observations/Comments: _____

Analysis Requested: Vols + Metals Number of Containers: 4

Well Sampling Completion: Date 10-19-22 Time 142.8 Samplers K Oye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-19-22

Monitoring Well: MW-5D Sample ID: MW5D-1022 Arrival Time: 0940

Weather Conditions

Temp. 37 ° F () Sunny () Partly Cloudy (X) Cloudy () Light Rain () Hvy. Rain (X) Snow ^{light}

Wind Conditions: 0-5mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 37.65 ft – SWL: 4.60 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 53 gals Purge Vol: 3.1 gals.

Start Purge: 1000 Pumping Rate: 94 sec /500 mL Purge Duration: 50 min Start Sampling: 1050

Purging Method: (X) Bladder Pump # 3 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 501656) Measured in: (X) Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.0</u>	<u>1030</u>	<u>6.81</u>	<u>155.8</u>	<u>3.64</u>	<u>4.86</u>	<u>8.2</u>	<u>7.6</u>	<u>5.95</u>
<u>2.3</u>	<u>1035</u>	<u>6.84</u>	<u>156.2</u>	<u>2.47</u>	<u>5.05</u>	<u>8.3</u>	<u>8.2</u>	<u>5.99</u>
<u>2.5</u>	<u>1040</u>	<u>6.82</u>	<u>156.0</u>	<u>2.86</u>	<u>5.17</u>	<u>8.0</u>	<u>8.8</u>	<u>6.12</u>
<u>2.8</u>	<u>1045</u>	<u>6.81</u>	<u>155.7</u>	<u>2.54</u>	<u>5.34</u>	<u>8.1</u>	<u>9.3</u>	<u>6.37</u>
<u>3.1</u>	<u>1050</u>	<u>6.83</u>	<u>155.9</u>	<u>2.24</u>	<u>5.22</u>	<u>8.1</u>	<u>9.0</u>	<u>6.51</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear - No Color Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: Vox's + Metals + 1.4D Number of Containers: 6

Well Sampling Completion: Date 10-19-22 Time 1107 Samplers KDE

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-19-22

Monitoring Well: MW-58 Sample ID: MW58-1022 Arrival Time: 1110

Weather Conditions

Temp. 36° F () Sunny () Partly Cloudy (X) Cloudy (X) Light Rain () Hvy. Rain () Snow ^{light}

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 21.20 ft – SWL: 4.10 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.7 gals Purge Vol: 4.1 gals.

Start Purge: 1115 Pumping Rate: 82 ^{SPR} /500 mL Purge Duration: 1hr Start Sampling: 1215

Purging Method: (X) Bladder Pump # 3 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Hach 2100P (sn: 081656) Measured in: (X) Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.8</u>	<u>1155</u>	<u>6.19</u>	<u>144.3</u>	<u>1.50</u>	<u>4.43</u>	<u>7.6</u>	<u>41.7</u>	<u>6.50</u>
<u>3.1</u>	<u>1200</u>	<u>6.18</u>	<u>144.9</u>	<u>1.58</u>	<u>4.66</u>	<u>7.4</u>	<u>42.5</u>	<u>6.43</u>
<u>3.4</u>	<u>1205</u>	<u>6.17</u>	<u>144.6</u>	<u>1.67</u>	<u>4.51</u>	<u>7.5</u>	<u>43.5</u>	<u>6.59</u>
<u>3.75</u>	<u>1210</u>	<u>6.18</u>	<u>144.7</u>	<u>1.27</u>	<u>4.38</u>	<u>7.5</u>	<u>44.4</u>	<u>6.47</u>
<u>4.1</u>	<u>1215</u>	<u>6.19</u>	<u>144.6</u>	<u>0.93</u>	<u>4.57</u>	<u>7.7</u>	<u>45.2</u>	<u>6.55</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: VOC + Metals Number of Containers: 4

Well Sampling Completion: Date 10-19-22 Time 1226 Samplers K Dye

MS/MSD

On-Site Geological Services, D.P.C. Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-20-22

Monitoring Well: MW-115 Sample ID: MW115-1022 Arrival Time: 1055

Weather Conditions

Temp. 40 ° F Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-15 mph with Gusts

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 20.40 ft - SWL: 8.22 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.9 gals Purge Vol: 2.8 gals.

Start Purge: 1100 Pumping Rate: 72 ^{sec} / 500 mL Purge Duration: 1 hr Start Sampling: 1200

Purging Method: Bladder Pump # 3 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 142100804), Hach 2100P (sn: 001656) Measured in: Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.8</u>	<u>1140</u>	<u>5.82</u>	<u>548.7</u>	<u>3.43</u>	<u>1.48</u>	<u>9.4</u>	<u>99.0</u>	<u>9.20</u>
<u>2.0</u>	<u>1145</u>	<u>5.80</u>	<u>550.3</u>	<u>2.66</u>	<u>1.38</u>	<u>9.7</u>	<u>101.0</u>	<u>9.33</u>
<u>2.3</u>	<u>1150</u>	<u>5.78</u>	<u>557.0</u>	<u>3.83</u>	<u>1.16</u>	<u>9.5</u>	<u>103.8</u>	<u>9.44</u>
<u>2.5</u>	<u>1155</u>	<u>5.76</u>	<u>551.5</u>	<u>2.10</u>	<u>1.35</u>	<u>9.4</u>	<u>98.6</u>	<u>9.38</u>
<u>2.8</u>	<u>1200</u>	<u>5.75</u>	<u>551.9</u>	<u>2.27</u>	<u>1.21</u>	<u>9.3</u>	<u>97.2</u>	<u>9.42</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: Voc's + Metals Number of Containers: 8

Well Sampling Completion: Date 10-20-22 Time 12:19 Samplers K Dye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-21-22

Monitoring Well: MW-17D Sample ID: MW17D-1022

Arrival Time: 0921

Weather Conditions

Temp. 39 ° F Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: light breeze with some gusts

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 65.10 ft – SWL: 32.25 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 20.1 gals Purge Vol: 2.4 gals.

Start Purge: 0930 Pumping Rate: 134 ^{gpm} /500 mL Purge Duration: 1hr 15min Start Sampling: 1045

Purging Method: Bladder Pump # 2 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D/108273), Hach 2100P (sn: 001656) Measured in: Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.5</u>	<u>1020</u>	<u>9.43</u>	<u>286.4</u>	<u>50.3</u>	<u>2.17</u>	<u>9.9</u>	<u>40.0</u>	<u>34.15</u>
<u>1.75</u>	<u>1025</u>	<u>9.45</u>	<u>286.3</u>	<u>50.0</u>	<u>2.01</u>	<u>10.1</u>	<u>37.8</u>	<u>34.28</u>
<u>1.9</u>	<u>1030</u>	<u>9.45</u>	<u>286.5</u>	<u>47.4</u>	<u>1.92</u>	<u>10.3</u>	<u>37.0</u>	<u>34.42</u>
<u>2.1</u>	<u>1035</u>	<u>9.46</u>	<u>286.7</u>	<u>46.4</u>	<u>1.84</u>	<u>10.4</u>	<u>36.0</u>	<u>34.58</u>
<u>2.25</u>	<u>1040</u>	<u>9.47</u>	<u>286.9</u>	<u>46.7</u>	<u>1.80</u>	<u>10.5</u>	<u>35.5</u>	<u>34.80</u>
<u>2.4</u>	<u>1045</u>	<u>9.48</u>	<u>287.1</u>	<u>38.4</u>	<u>1.64</u>	<u>10.6</u>	<u>34.7</u>	<u>34.99</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Slightly cloudy Sample Odor: No odor

Other Observations/Comments: w/ light orange tint

Analysis Requested: VOC's + Metals Number of Containers: 4

Well Sampling Completion: Date 10-21-22 Time 11:08 Samplers R Dye

Dupl
FBI
3/505

On-Site Geological Services, D.P.C. Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-18-22

Monitoring Well: MW-175 Sample ID: MW175-1022 Arrival Time: 1339

Weather Conditions

Temp. 44 ° F () Sunny Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: Steady wind

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 26.94 ft – SWL: 7.53 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.8 gals Purge Vol: 3.75 gals.

Start Purge: 1350 Pumping Rate: 122 ^{sec} /500 mL Purge Duration: 1hr 5min Start Sampling: 1455

Purging Method: Bladder Pump # PPAS () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 14L100884), Hach 2100P (sn: 001656) Measured in: (Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.75</u>	<u>1435</u>	<u>6.61</u>	<u>935</u>	<u>6.41</u>	<u>0.90</u>	<u>8.6</u>	<u>236.0</u>	<u>12.39</u>
<u>3.0</u>	<u>1440</u>	<u>6.57</u>	<u>934</u>	<u>6.31</u>	<u>1.04</u>	<u>8.2</u>	<u>237.8</u>	<u>12.65</u>
<u>3.25</u>	<u>1445</u>	<u>6.53</u>	<u>940</u>	<u>5.69</u>	<u>0.88</u>	<u>8.5</u>	<u>239.4</u>	<u>12.94</u>
<u>3.5</u>	<u>1450</u>	<u>6.51</u>	<u>942</u>	<u>5.61</u>	<u>0.82</u>	<u>8.4</u>	<u>240.9</u>	<u>13.28</u>
<u>3.75</u>	<u>1455</u>	<u>6.49</u>	<u>946</u>	<u>7.35</u>	<u>0.80</u>	<u>8.1</u>	<u>241.7</u>	<u>13.61</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: VOC's + Metals + EC Number of Containers: 8 + 2.01

Well Sampling Completion: Date 10-18-22 Time 1532 Samplers KDE

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-20-22

Monitoring Well: MW-18D Sample ID: MW/18D-1022

Arrival Time: 1349

Weather Conditions

Temp. 47 ° F () Sunny () Partly Cloudy Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-10 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 28.51 ft – SWL: 14.78 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 8.9 gals Purge Vol: 4.1 gals.

Start Purge: 1400 Pumping Rate: 107 sec 7500 mL Purge Duration: 1hr 10min Start Sampling: 1510

Purging Method: Bladder Pump # 2 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 142100804), Hach 2100P (sn: 021656) Measured in: Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.6</u>	<u>1445</u>	<u>7.63</u>	<u>363.7</u>	<u>33.3</u>	<u>0.83</u>	<u>7.7</u>	<u>-80.2</u>	<u>17.81</u>
<u>2.9</u>	<u>1458</u>	<u>7.57</u>	<u>363.0</u>	<u>31.9</u>	<u>0.80</u>	<u>7.8</u>	<u>-79.5</u>	
<u>3.25</u>	<u>1455</u>	<u>7.58</u>	<u>363.7</u>	<u>32.9</u>	<u>0.82</u>	<u>7.7</u>	<u>-82.8</u>	
<u>3.5</u>	<u>1500</u>	<u>7.61</u>	<u>363.8</u>	<u>29.0</u>	<u>0.78</u>	<u>7.7</u>	<u>-79.5</u>	
<u>3.8</u>	<u>1505</u>	<u>7.54</u>	<u>363.5</u>	<u>28.3</u>	<u>0.80</u>	<u>7.6</u>	<u>-78.2</u>	
<u>4.1</u>	<u>1510</u>	<u>7.56</u>	<u>363.7</u>	<u>25.7</u>	<u>0.76</u>	<u>7.6</u>	<u>-78.6</u>	<u>18.55</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Slightly cloudy ^{no color} Sample Odor: No odor

Other Observations/Comments: _____

Analysis Requested: VOCS + Metals Number of Containers: 4

Well Sampling Completion: Date 10-20-22 Time 1526 Samplers KDj

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-20-22

Monitoring Well: MW-188 Sample ID: MW188-1022 Arrival Time: 1225

Weather Conditions

Temp. 42° F () Sunny (X) Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-15 mph with Gusts

Well Condition Checklist

Bump posts: N/A Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 20.49 ft – SWL: 11.46 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.4 gals Purge Vol: 1.9 gals.

Start Purge: 1230 Pumping Rate: 119 sec /500 mL Purge Duration: 1 hr Start Sampling: 1330

Purging Method: (X) Bladder Pump # 3 () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 142100804), Hach 2100P (sn: 001656) Measured in: (X) Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.0</u>	<u>1305</u>	<u>4.97</u>	<u>266.5</u>	<u>25.0</u>	<u>1.18</u>	<u>7.1</u>	<u>216.4</u>	<u>12.71</u>
<u>1.25</u>	<u>1310</u>	<u>4.94</u>	<u>266.1</u>	<u>21.5</u>	<u>1.54</u>	<u>7.1</u>	<u>219.4</u>	<u>12.87</u>
<u>1.4</u>	<u>1315</u>	<u>4.91</u>	<u>266.4</u>	<u>14.9</u>	<u>1.39</u>	<u>7.1</u>	<u>220.2</u>	<u>13.06</u>
<u>1.6</u>	<u>1320</u>	<u>4.96</u>	<u>265.8</u>	<u>16.3</u>	<u>1.43</u>	<u>7.1</u>	<u>218.3</u>	
<u>1.75</u>	<u>1325</u>	<u>4.94</u>	<u>265.2</u>	<u>14.5</u>	<u>1.59</u>	<u>7.0</u>	<u>218.7</u>	
<u>1.9</u>	<u>1330</u>	<u>4.93</u>	<u>267.4</u>	<u>9.07</u>	<u>1.81</u>	<u>7.9</u>	<u>217.6</u>	

outer casing

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear with Fine Floating Particulates whitish color Sample Odor: No odor

Other Observations/Comments: Confine & P.H. with ISI 17D108273

Analysis Requested: VOC's + Metals Number of Containers: 4

Well Sampling Completion: Date 10-20-22 Time 1345 Samplers RDP

On-Site Geological Services, D.P.C. Groundwater Cutoff, Leachate, Surface Water, Sediment, Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-20-22

Sampling Location: LS-1 Sample ID: LS1-1022 Arrival Time: 1535

Weather Conditions

Temp. 44 ° F () Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-10 mph

Location Type

() Groundwater Cutoff, () Leachate, () Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: 23 ft Estimated Flow: → Comments: No Visible Flow

Field Parameters (as appropriate)

Meter: YSI (sn: 170108273), Hach 2100P (sn: 001656)

Measured in: () Directly Submerged Probe () Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1545</u>	<u>7.72</u>	<u>827</u>	<u>5.08</u>	<u>NA</u>	<u>10.6</u>	<u>691.0</u>

Sample Information

Sample Type: () Grab () Composite Sample Location: () Discharge Pipe () Pond () Ditch () Leachate Sump

Location Description/Condition: Sump

Sample Collection Equipment/Method: Bailer Sample Description (clarity/color): Clear No Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: Voc's + Metals Sample Time: 1545 Number of Containers: 4

Sampling Completion: Time 1554 Date 10-20-22 Samplers R. Oye

On-Site Geological Services, D.P.C.

Groundwater Cutoff, Leachate, Surface Water, Sediment, Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/24/22

Sampling Location: MA-32 Sample ID: MA32-1022 Arrival Time: 1325

Weather Conditions

Temp. 68 ° F Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: light

Location Type

Groundwater Cutoff, () Leachate, () Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: 6" Estimated Flow: ∅ Comments: No visible flow

Field Parameters (as appropriate)

Meter: YSI (sn: 21A102643), Hach 2100P (sn: 11000013309)

Measured in: () Directly Submerged Probe () Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1330</u>	<u>7.56</u>	<u>609.7</u>	<u>5.37</u>	<u>NA</u>	<u>14.0</u>	<u>-0.5</u>

Sample Information

Sample Type: Grab () Composite Sample Location: () Discharge Pipe () Pond () Ditch () Leachate Sump
manhole

Location Description/Condition: NW groundwater cutoff manhole

Sample Collection Equipment/Method: clipper Sample Description (clarity/color): clear, no color

Sample Odor: none Other Observations/Comments: trace TSS

Analysis Requested: VOL, Metals, NO3, TDS Sample Time: 1330 Number of Containers: 5

Sampling Completion: Time 1341 Date 10/24/22 Samplers J. Briles

On-Site Geological Services, D.P.C.

Groundwater Cutoff, Leachate, Surface Water, Sediment, Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/24/22

Sampling Location: MH-33 Sample ID: MH33-1022 Arrival Time: 1310

Weather Conditions

Temp. 68 ° F () Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: light

Location Type

Groundwater Cutoff, () Leachate, () Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: 6" Estimated Flow: ∅ Comments: No visible flow

Field Parameters (as appropriate)

Meter: YSI (sn: 21A102643), Hach 2100P (sn: 11060A3309)

Measured in: () Directly Submerged Probe () Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1315</u>	<u>7.52</u>	<u>658</u>	<u>10.4</u>	<u>NA</u>	<u>12.9</u>	<u>626</u>

Sample Information

Sample Type: Grab () Composite Sample Location: () Discharge Pipe () Pond () Ditch () Leachate Sump
manhole

Location Description/Condition: SE groundwater cutoff manhole

Sample Collection Equipment/Method: dipper Sample Description (clarity/color): clear, no color

Sample Odor: None Other Observations/Comments: some TSS

Analysis Requested: VOC, metal, NO3, TDS Sample Time: 1315 Number of Containers: 5

Sampling Completion: Time 1511 Date 10/24/22 Samplers J. Brandoles

On-Site Geological Services, D.P.C. Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-21-22

Sampling Location: WAL1 Sample ID: WAL1-1022 Arrival Time: 1318

Weather Conditions

Temp. 56° F Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: Steady Wind

Sample Information

Sample Type: Grab () Composite

Sample Location: Kitchen Sink

Location Description/Condition: Good

Sample Collection Equipment/Method: Direct Grab Sample Description (clarity/color): Clear No Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: Voc's + Metals Sample Time: 1325 Number of Containers: 4

Comment:

Sampling Completion: Time 1339 Date 10-21-22 Samplers K Dye

On-Site Geological Services, D.P.C. Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 11/21/22

Sampling Location: WAL-2 Sample ID: WAL2-1122 Arrival Time: 0925

Weather Conditions

Temp. 28 ° F () Sunny (x) Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: light

Sample Information

Sample Type: (x) Grab () Composite Sample Location: Kitchen Sink CWT

Location Description/Condition: good

Sample Collection Equipment/Method: direct grab Sample Description (clarity/color): clear, No color

Sample Odor: None Other Observations/Comments: _____

Analysis Requested: metals Sample Time: 0935 Number of Containers: 1

Comment:

Sampling Completion: Time 0940 Date 11/21/22 Samplers J. Bruders

On-Site Geological Services, D.P.C. Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/20/22

Sampling Location: WAL-19

Sample ID:

Arrival Time: 0959

WAL19 Post-1022

WAL19 Inter-1022

WAL19 Pre-1022

Weather Conditions

Temp. 35 ° F () Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: moderate

Sample Information

Sample Type: (X) Grab () Composite

Sample Location:

Post = Kitchen Sink Pre = before filter

Inter = between filter

Location Description/Condition:

good

Sample Collection Equipment/Method:

direct grab

Sample Description (clarity/color):

clear, no odor

Sample Odor:

None

Other Observations/Comments:

Analysis Requested:

VOCs

Sample Time:

Post = 1010
Inter = 1015
Pre = 1020

Number of Containers:

3 each

Comment:

Sampling Completion: Time

1030

Date

10/20/22

Samplers

J. Brandes

Appendix D

2022 Quarterly Inspections & Maintenance Checklist

Figure 5-3

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

Inspector: <u>BRAD MAURO</u>		Date: <u>3/31/2022</u>	
Weather: <u>Clouds & Rain</u>		Temperature: <u>55°</u>	
Area	Item	Action	Comments
Cover system	Seeps	Delineate, sample, evaluate.	OK
	Subsidence/ponding	Delineate, fill, and revegetate.	OK
	Erosion/gullies	Determine cause, grade, and vegetate.	OK
	Slope stability	Check for erosion, slippage, slope failure.	OK
	Vegetation	Check for areas of weak/no vegetation, revegetate.	OK
		Mow semiannually.	OCT 2021
		Remove scrubs and trees from cover system and drainage ways.	OK
Vectors	Check for burrows and backfill with clean soil.	OK	
Leachate collection and storage system	USTs	Check leachate levels, check/test leak detection system and auto dialer; check for sediment in bottom of tanks.	Jan, Feb, March 455,000 gal.
	Pump stations	Check pump operation.	OK
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments.	Replaced Pump #2 In well well
	Forcemain	Check for leaks.	
	Laterals and trunk line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-Site
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-Site
Gas venting system	Odors	Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property. Check physical condition of vent and screen.	Performed by On-Site

Figure 5-3			
QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST WELLSVILLE/ANDOVER LANDFILL SITE NYSDEC SITE NO. 9-02-004			
Inspector: <u>BRADLEY J MATTHEW</u>		Date: <u>3/21/22</u>	
Weather: <u>Cloudy 3 Rain</u>		Temperature: <u>55°</u>	
Area	Item	Action	Comments
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation.	OK
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	OK
	Culverts	Check condition and for blockage and erosion.	OK
	Detention ponds	Check outlet structure for blockage and general condition.	OK
Check for siltation/silt buildup, erosion, condition of vegetation and embankments.		OK	
Groundwater monitoring system	Sampling wells	See Section 4.	
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-Site
Facility access system	Roads	Check condition. Check for erosion, potholes.	OK
	Access gate	Check condition. Lubricate lock.	OK
Other	Comments		

Signed: BRADLEY J MATTHEW

Date: 3/31/22

Figure 5-3

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

Inspector: <u>Bradley Watson</u>		Date: <u>6/5/22</u>	
Weather: <u>Sunny</u>		Temperature: <u>82°</u>	
Area	Item	Action	Comments
Cover system	Seeps	Delineate, sample, evaluate.	OK
	Subsidence/ponding	Delineate, fill, and revegetate.	OK
	Erosion/gullies	Determine cause, grade, and vegetate.	OK
	Slope stability	Check for erosion, slippage, slope failure.	OK
	Vegetation	Check for areas of weak/no vegetation, revegetate.	OK
		Mow semiannually.	OCT 2021
		Remove scrubs and trees from cover system and drainage ways.	OK
Vectors	Check for burrows and backfill with clean soil.		
Leachate collection and storage system	USTs	Check leachate levels, check/test leak detection system and auto dialer; check for sediment in bottom of tanks.	April, May, June 345,000 gal
	Pump stations	Check pump operation.	OK
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments.	OK
	Forcemain	Check for leaks.	OK
	Laterals and trunk line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-Site
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-Site
Gas venting system	Odors	Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property. Check physical condition of vent and screen.	Performed by On-Site

Figure 5-3

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

Inspector: <u>Bradley J Maurice</u>	Date: <u>6/31/2022</u>		
Weather: <u>82 Sunny</u>	Temperature: <u>82</u>		
Area	Item	Action	Comments
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation.	OK
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	OK
		Culverts	Check condition and for blockage and erosion.
	Detention ponds	Check outlet structure for blockage and general condition.	OK
			Check for siltation/silt buildup, erosion, condition of vegetation and embankments.
Groundwater monitoring system	Sampling wells	See Section 4.	OK
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-Site
Facility access system	Roads	Check condition. Check for erosion, potholes.	OK
	Access gate	Check condition. Lubricate lock.	OK
Other		Comments * LEACHATE LADDERALS Pressure cleaned 1/2 VAC by JTH Hydro Clean. * Received dump back from Repairs For Manhole.	

Signed: Bradley J Maurice

Date: 6/31/22

Figure 5-3

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
 WELLSVILLE/ANDOVER LANDFILL SITE
 NYSDEC SITE NO. 9-02-004

Inspector: BRAD MATLISON Date: 9/29/20
 Weather: Partly Sunny Temperature: 56°

Area	Item	Action	Comments
Cover system	Seeps	Delineate, sample, evaluate.	OK
	Subsidence/ponding	Delineate, fill, and revegetate.	OK
	Erosion/gullies	Determine cause, grade, and vegetate.	OK
	Slope stability	Check for erosion, slippage, slope failure.	OK
	Vegetation	Check for areas of weak/no vegetation, revegetate.	OK
		Mow semiannually.	OCT 2021
		Remove scrubs and trees from cover system and drainage ways.	OK
Vectors	Check for burrows and backfill with clean soil.	OK	
Leachate collection and storage system	USTs	Check leachate levels, check/test leak detection system and auto dialer; check for sediment in bottom of tanks.	July, Aug, Sept 120,000 gal
	Pump stations	Check pump operation.	OK
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments.	OK
	Forcemain	Check for leaks.	OK
	Laterals and trunk line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-site
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-site
Gas venting system	Odors	Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property. Check physical condition of vent and screen.	Performed by On-site

Figure 5-3

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
 WELLSVILLE/ANDOVER LANDFILL SITE
 NYSDEC SITE NO. 9-02-004

Inspector: KRAB MATISON Date: 9/29/22
 Weather: Partly Sunny Temperature: 56°

Area	Item	Action	Comments
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation.	OK
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	OK
	Culverts	Check condition and for blockage and erosion.	OK
	Detention ponds	Check outlet structure for blockage and general condition.	OK
		Check for siltation/silt buildup, erosion, condition of vegetation and embankments.	OK
Groundwater monitoring system	Sampling wells	See Section 4.	
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-site
Facility access system	Roads	Check condition. Check for erosion, potholes.	OK
	Access gate	Check condition. Lubricate lock.	OK
Other	Comments		

Signed: Bradley S MATISON

Date: 9/29/22

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

INSPECTOR: <i>Brad Matison</i>		DATE: <i>12/28/22</i>		
WEATHER: <i>Cloudy</i>		TEMPERATURE: <i>40°</i>		
AREA	ITEM	ACTION	COMMENTS	
Cover System	Seeps	Delineate, sample, evaluate	OK	
	Subsidence/ponding	Delineate, fill, & revegetate	OK	
	Erosion/Gullies	Determind cause, grade & vegetate	OK	
	Slope Stability	Check for erosion, slippage, slope failure	OK	
	Vegetation		Check for areas of weak/no vegetation, revegetate	OK
			Mow semiannually	OCT 22
			Remove scrubs & trees from cover system & drain ways	OK
	Vectors	Check for burrows & backfill with clean soil	OK	
Leachate collection and storage system	UST'S	Check leachate levels, check/test leak detection system and auto dialer, check for sediment in bottom of tanks	October, November, & December <i>470,000 gal</i>	
	Pump stations	Check pump operation		
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments	OK	
	Forcemain	Check for leaks		
	Laterals and truck line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-Site	
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-Site	
Gas venting system		Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property. Check physical condition of vent and screen.	Performed by On-Site	
	Odors			

**QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004**

INSPECTOR: <i>Bradley J Mettison</i>		DATE: <i>12/28/2022</i>	
WEATHER: <i>Cloudy</i>		TEMPERATURE: <i>40°</i>	
AREA	ITEM	ACTION	COMMENTS
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation	<i>OK</i>
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	<i>OK</i>
	Culverts	Check condition and for blockage and erosion	<i>OK</i>
	Detention ponds	Check outlet structure for blockage and general condition.	<i>OK</i>
		Check for situation/silt buildup. Erosion, condition of vegetation and embankment	<i>OK</i>
Groundwater monitoring	Sampling wells	See Section 4	
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-Site
Facility access system	Roads	Check condition. Check for erosion, potholes.	<i>OK</i>
	Access gate	Check condition. Lubricate lock	<i>OK</i>
Other		Comments:	

Signed: *Bradley J Mettison*

Date: *12/28/2022*

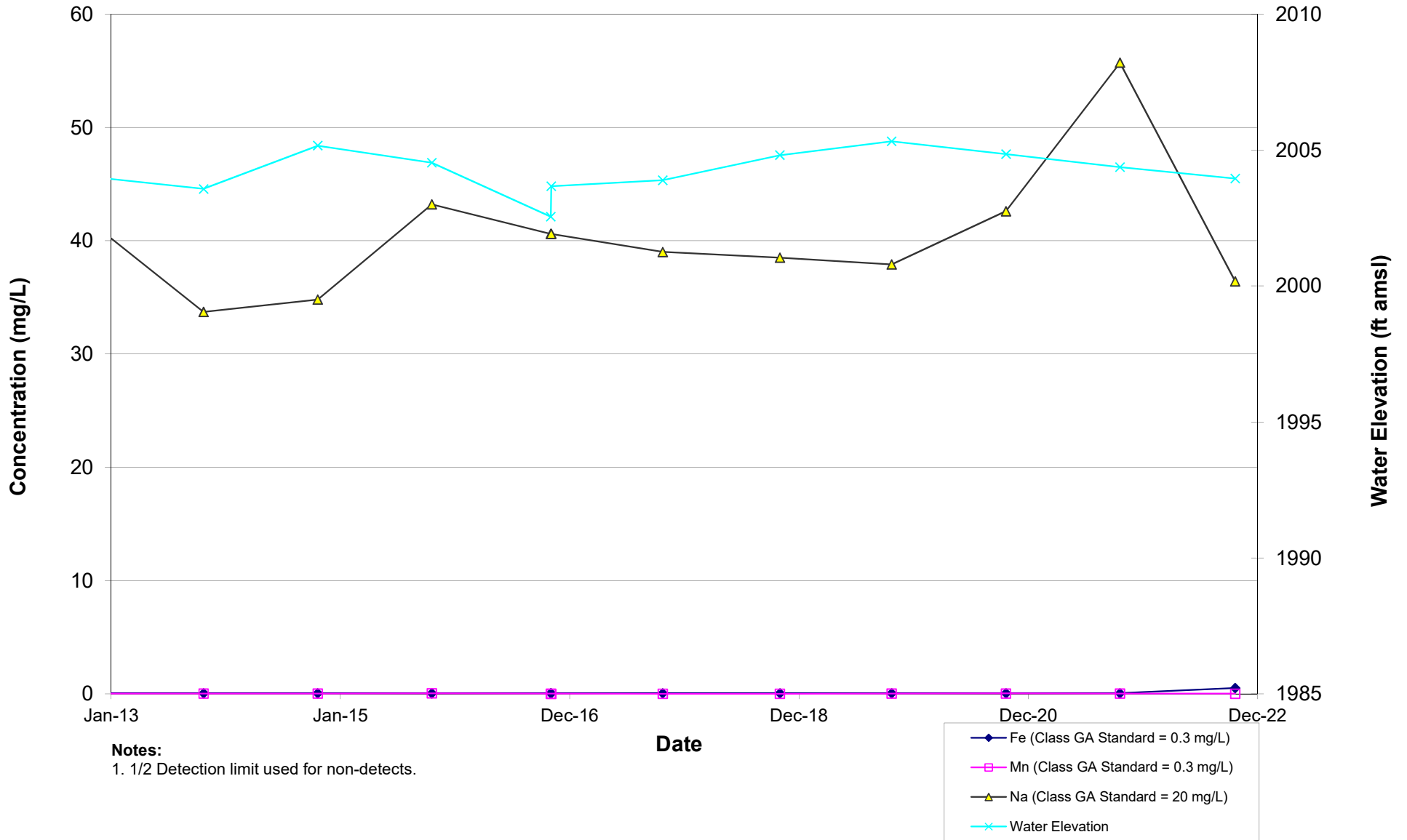
Appendix E

Groundwater Concentration Time Trend Plots

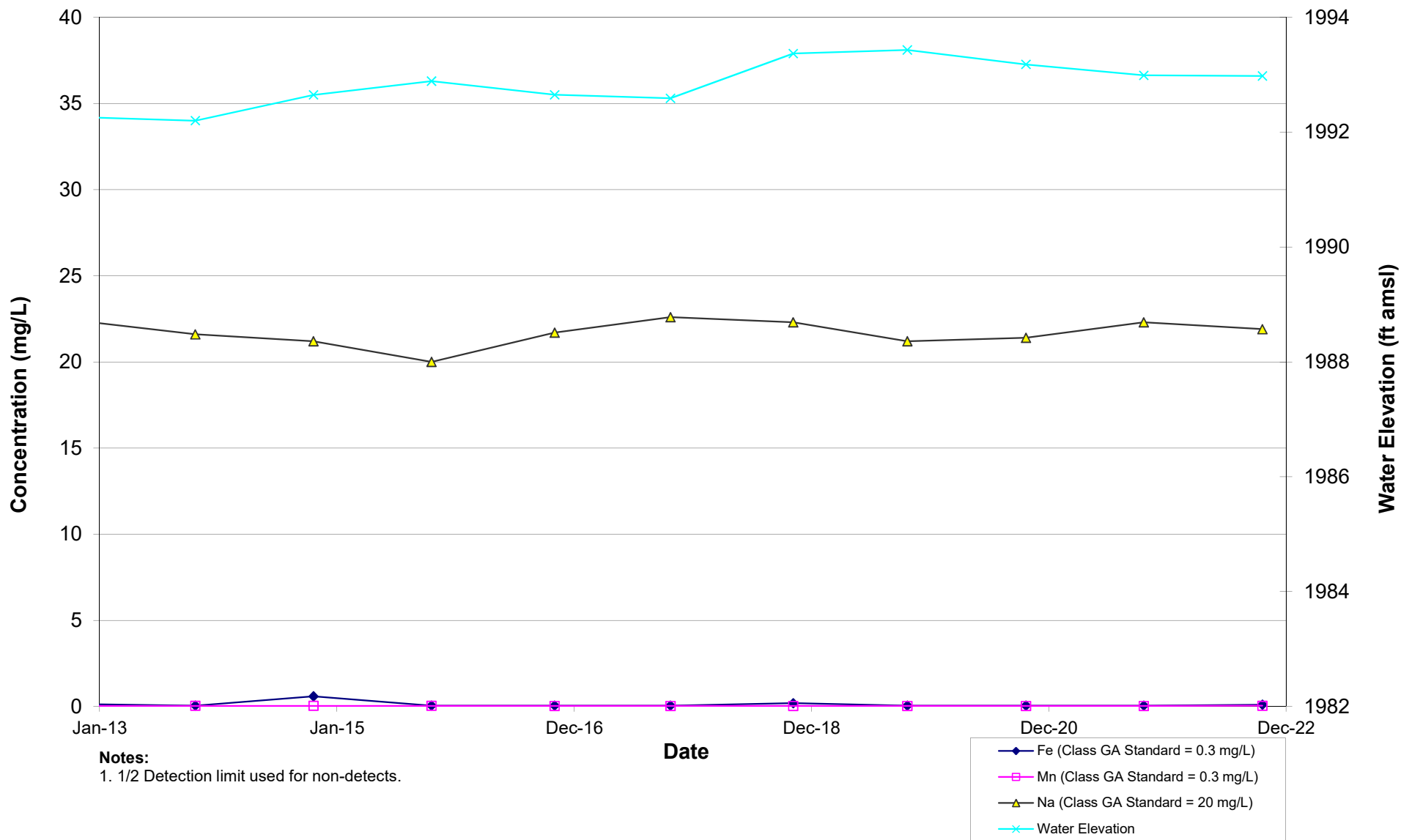
Metals

Groundwater Concentration
Time Trend Plots

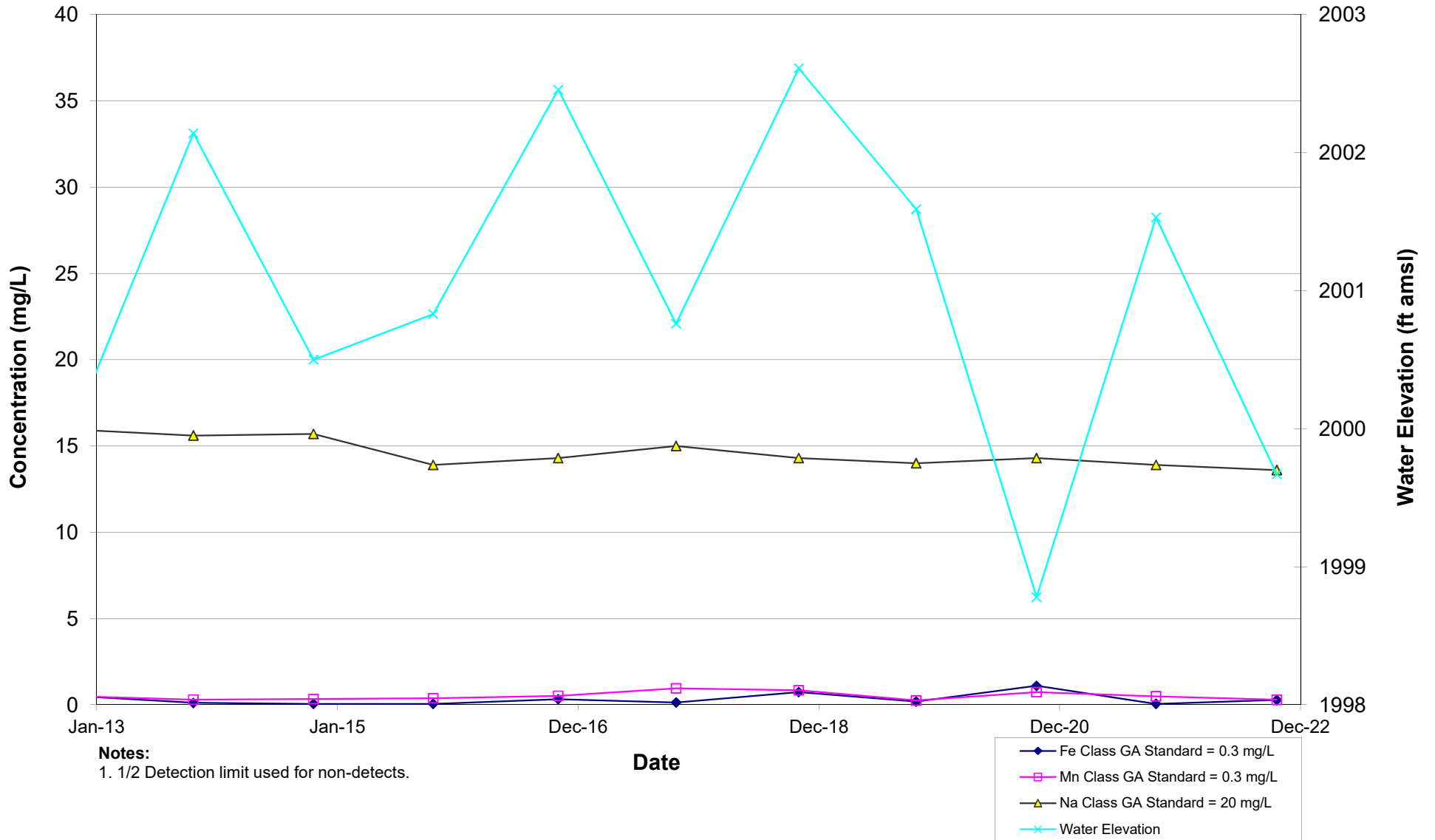
CW-3A Metals



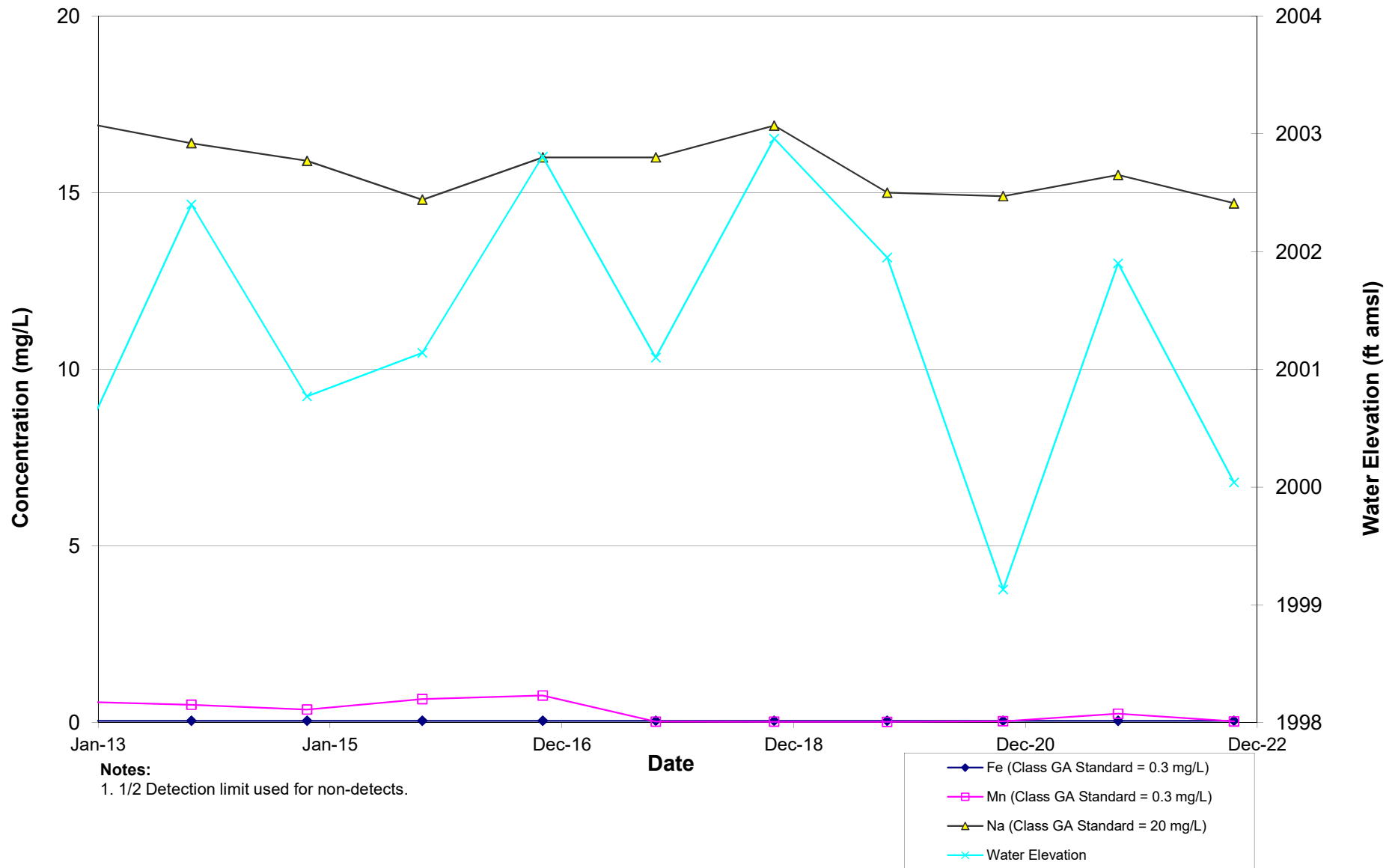
CW-3B Metals



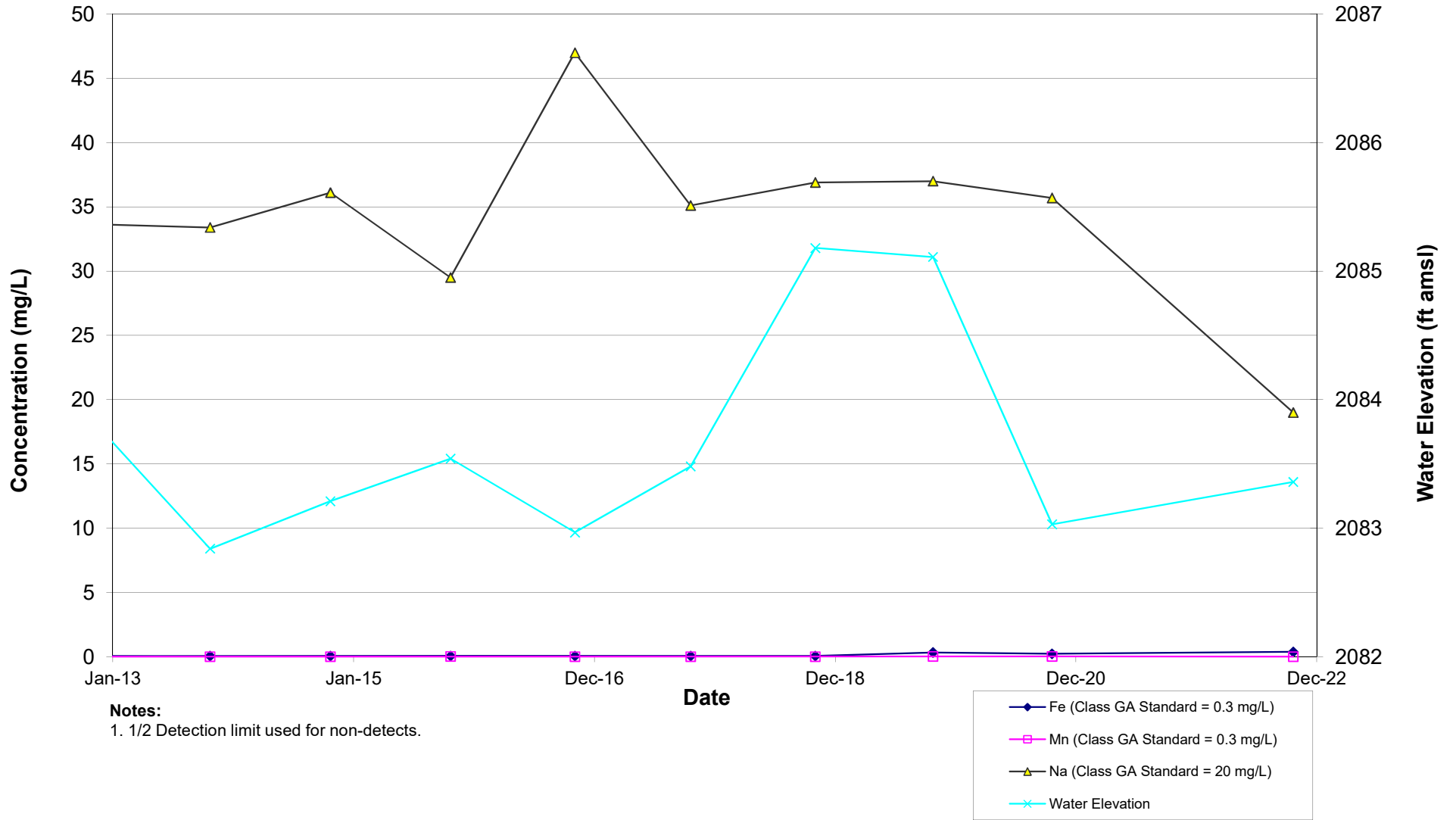
CW-4A Metals



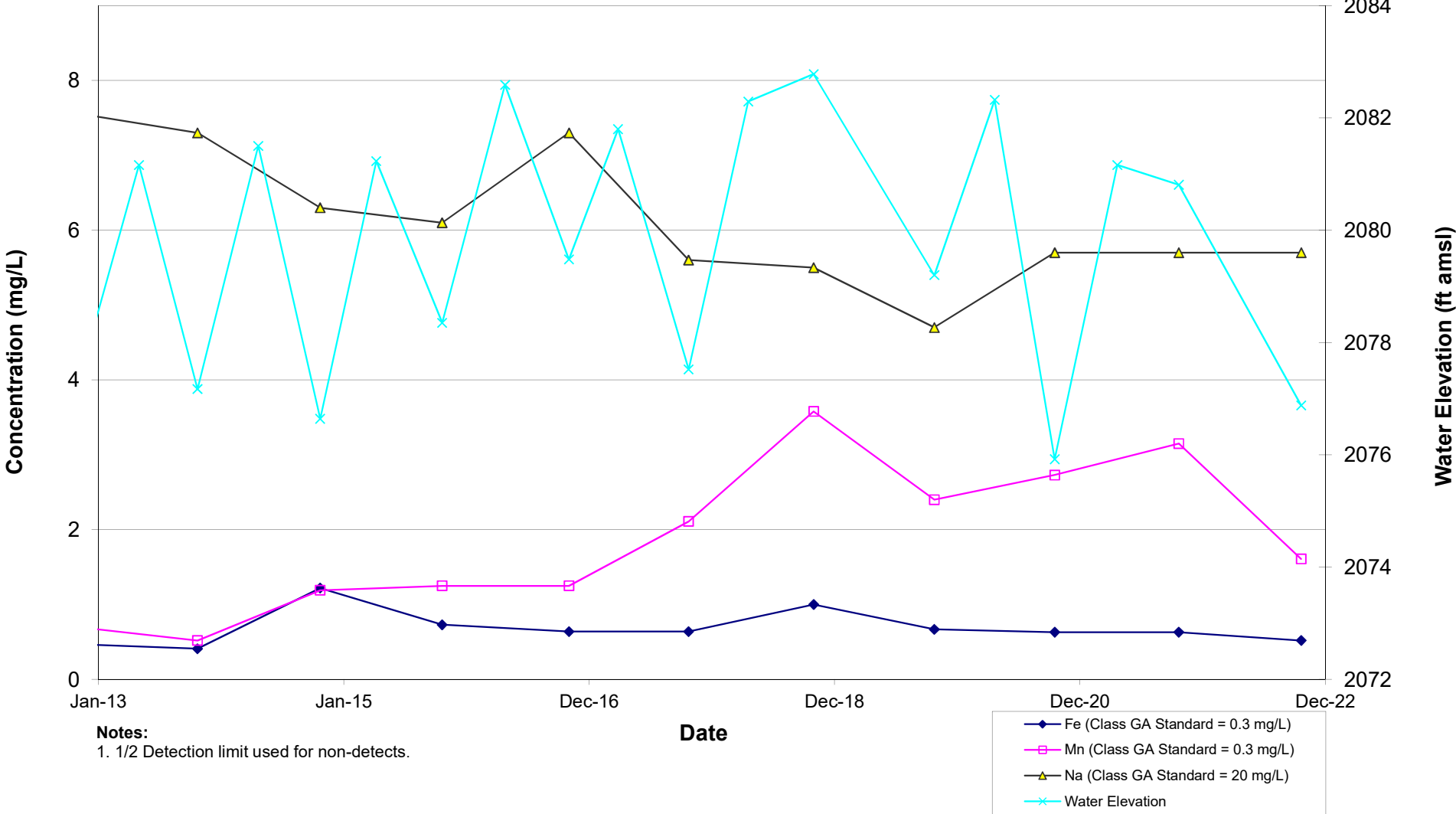
CW-4B Metals



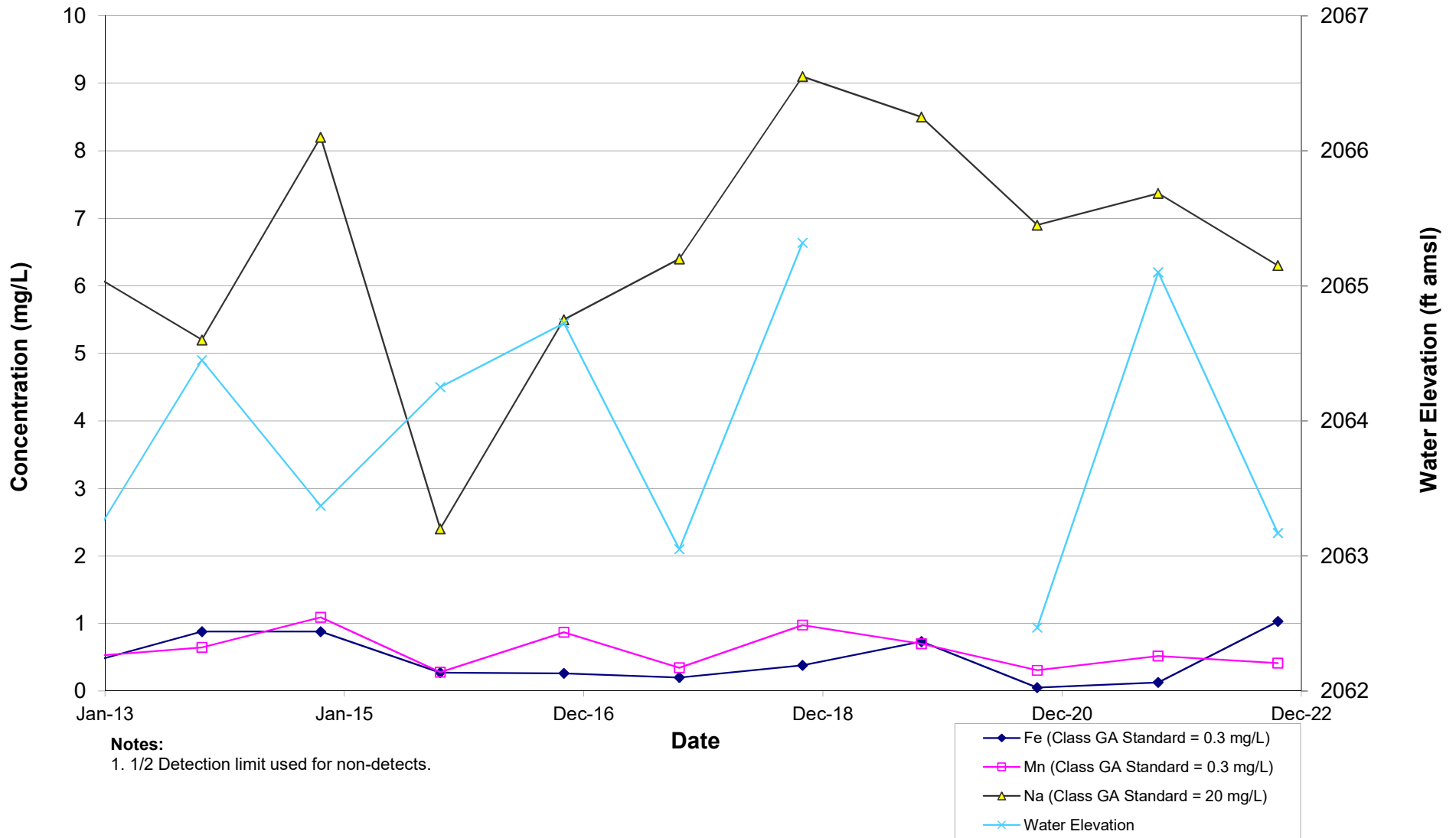
MW-3S Metals



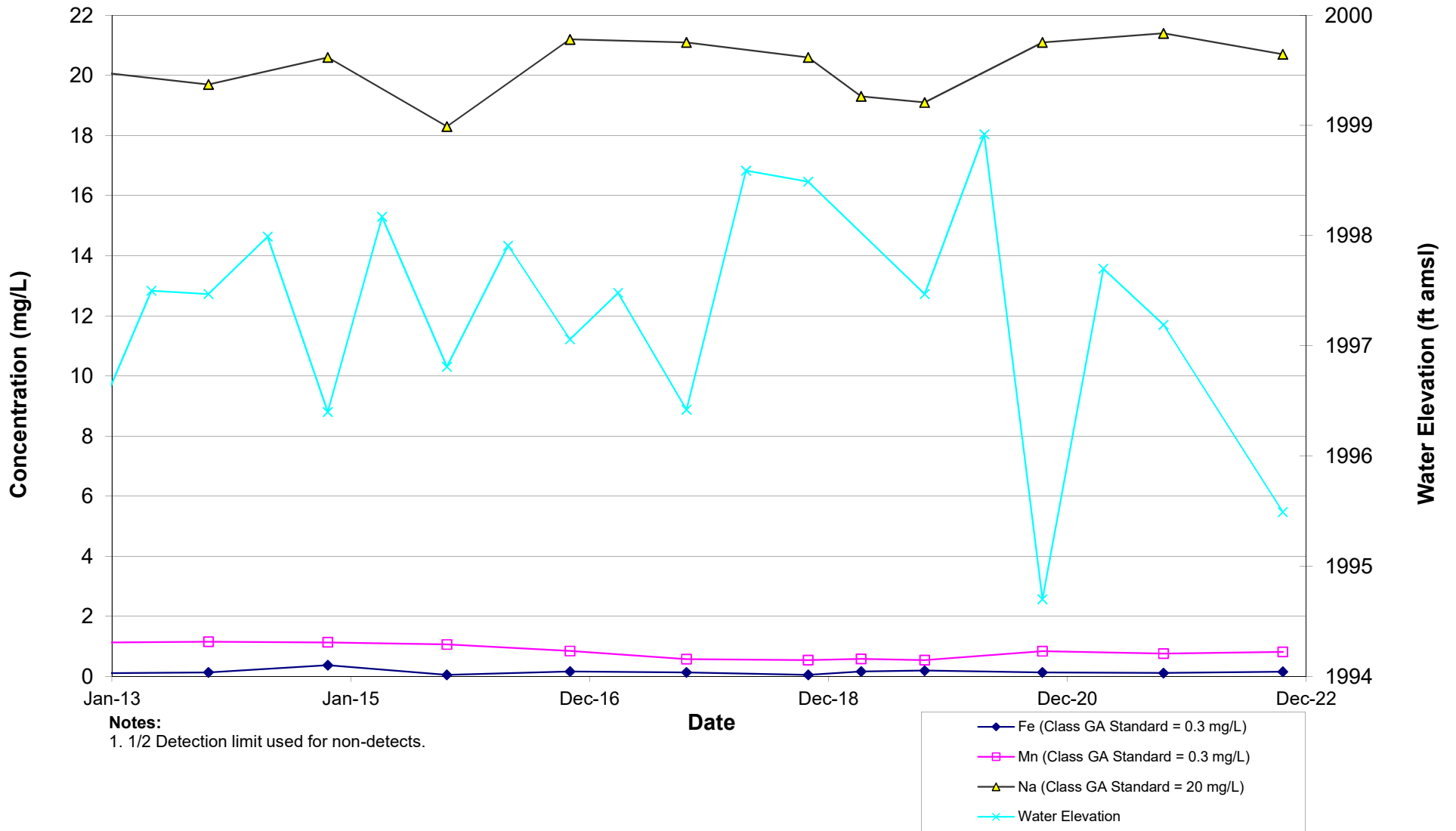
MW-4D Metals



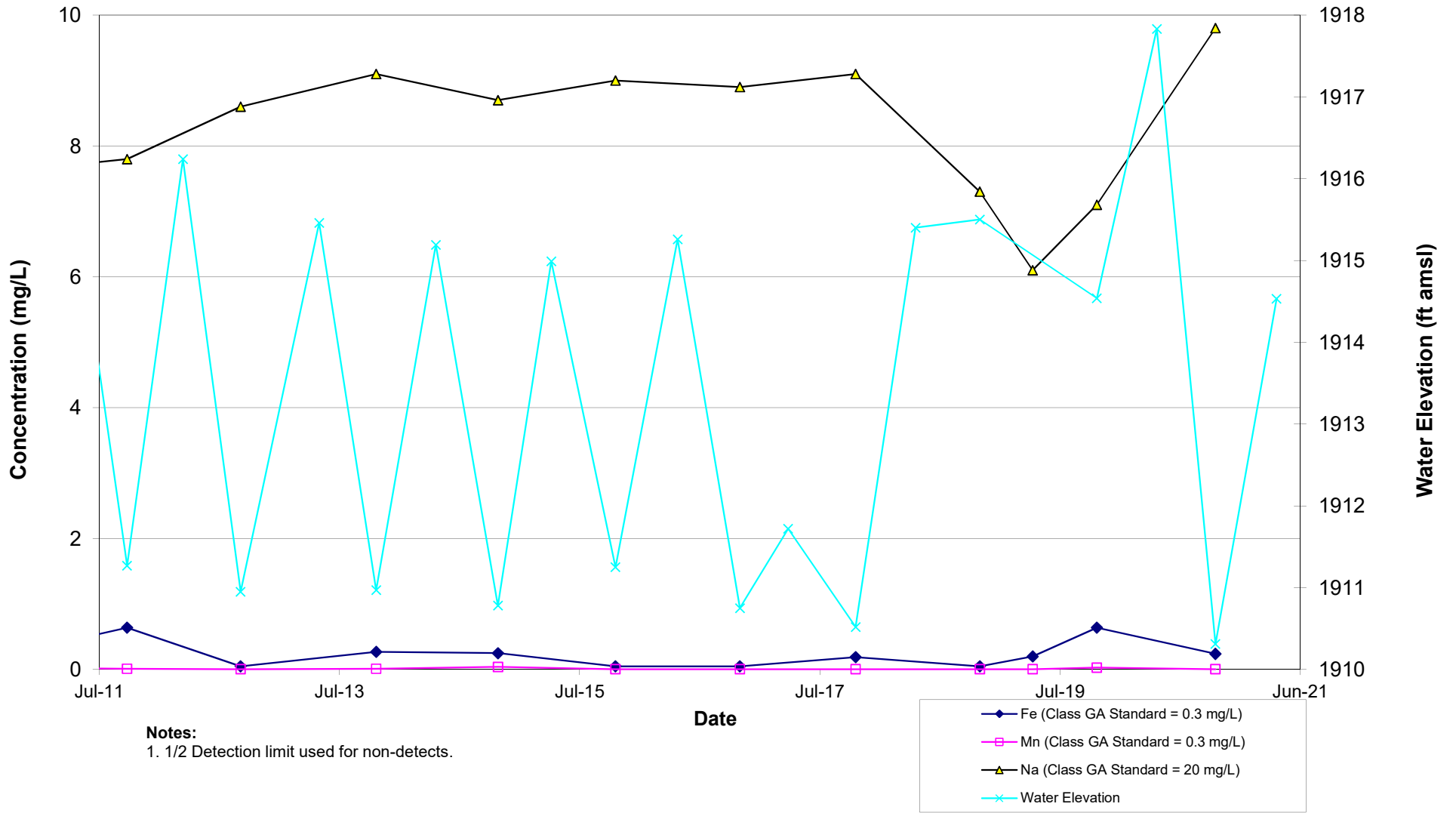
MW-5D Metals



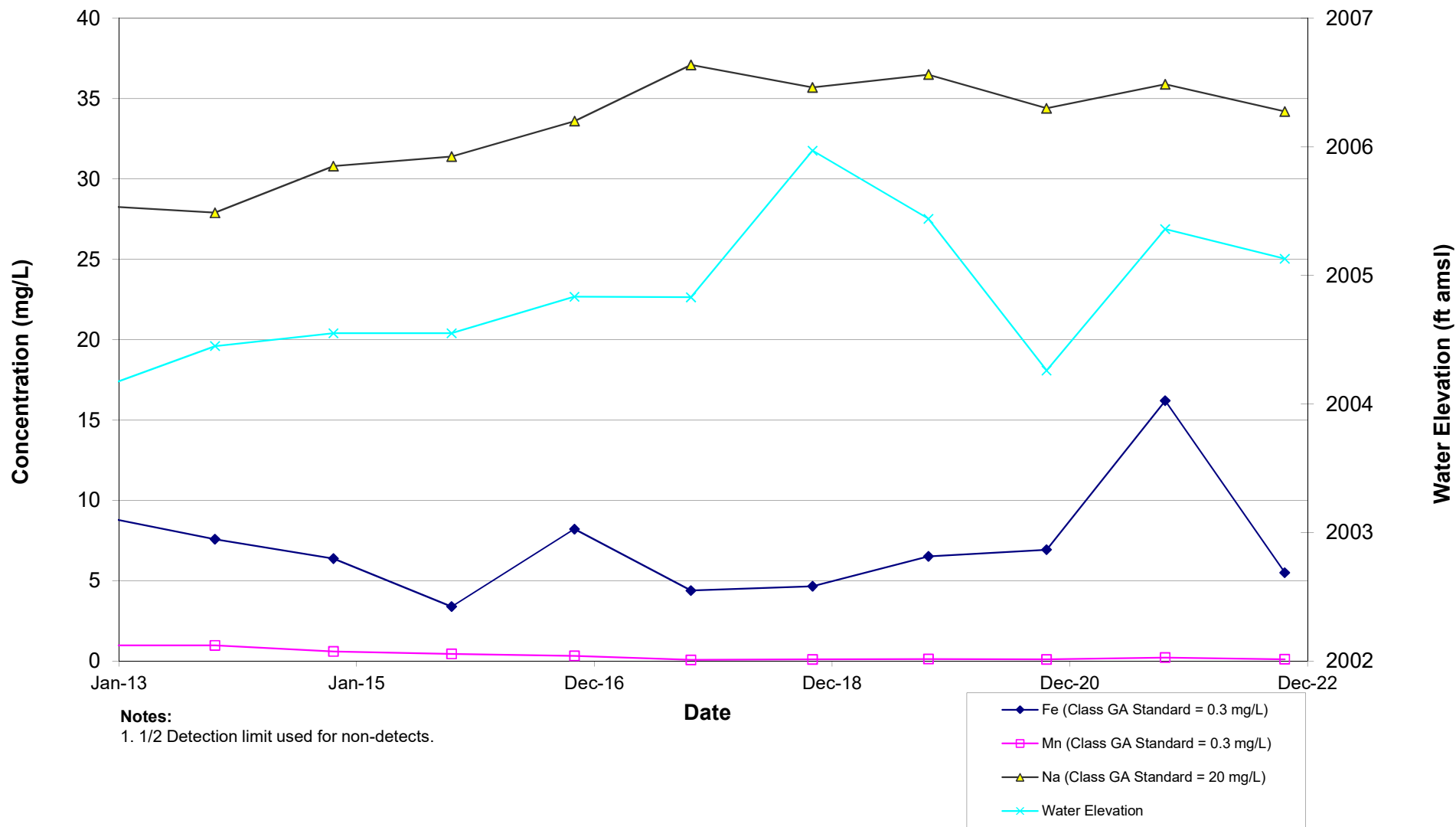
MW-11S Metals



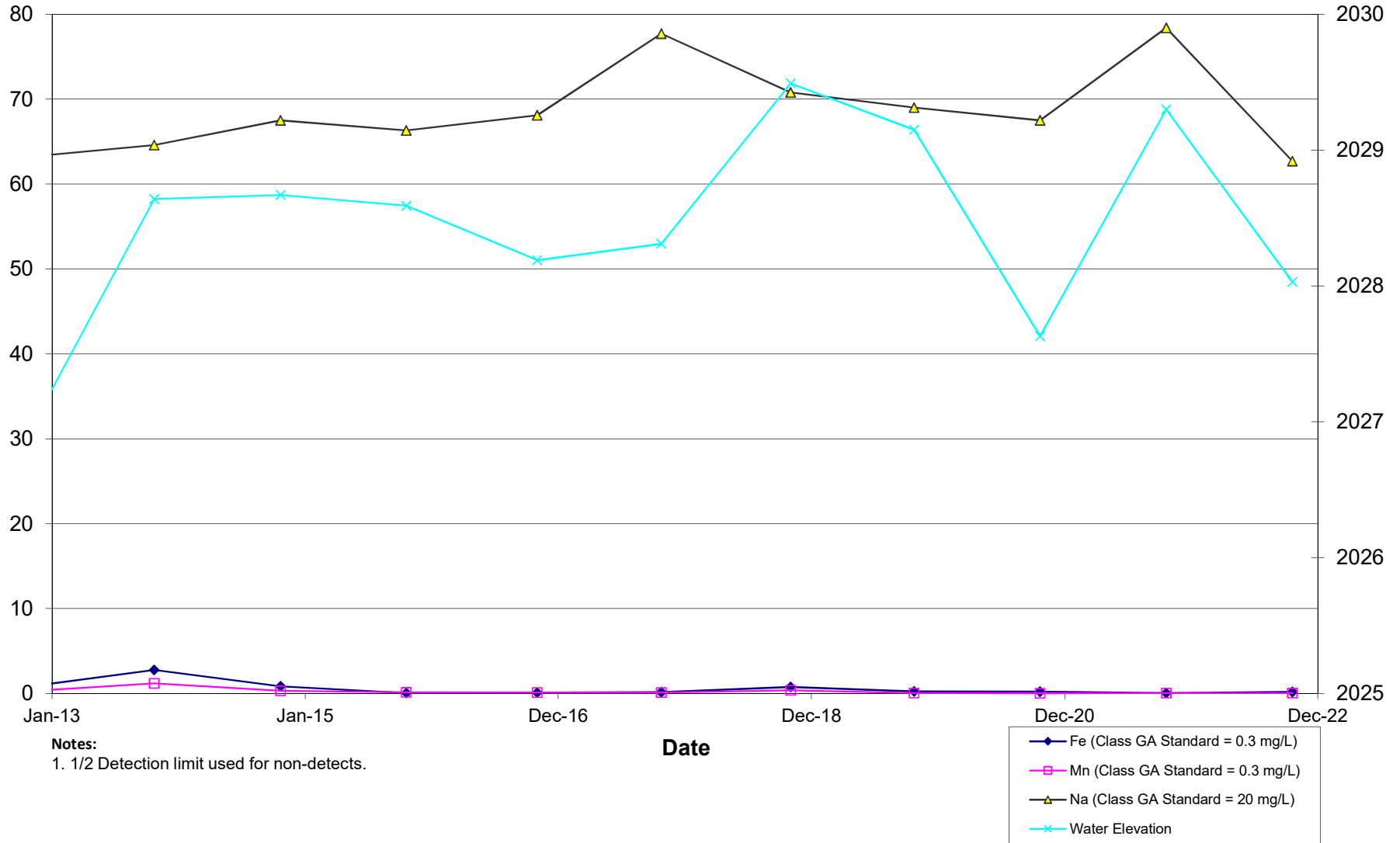
MW-16S Metals



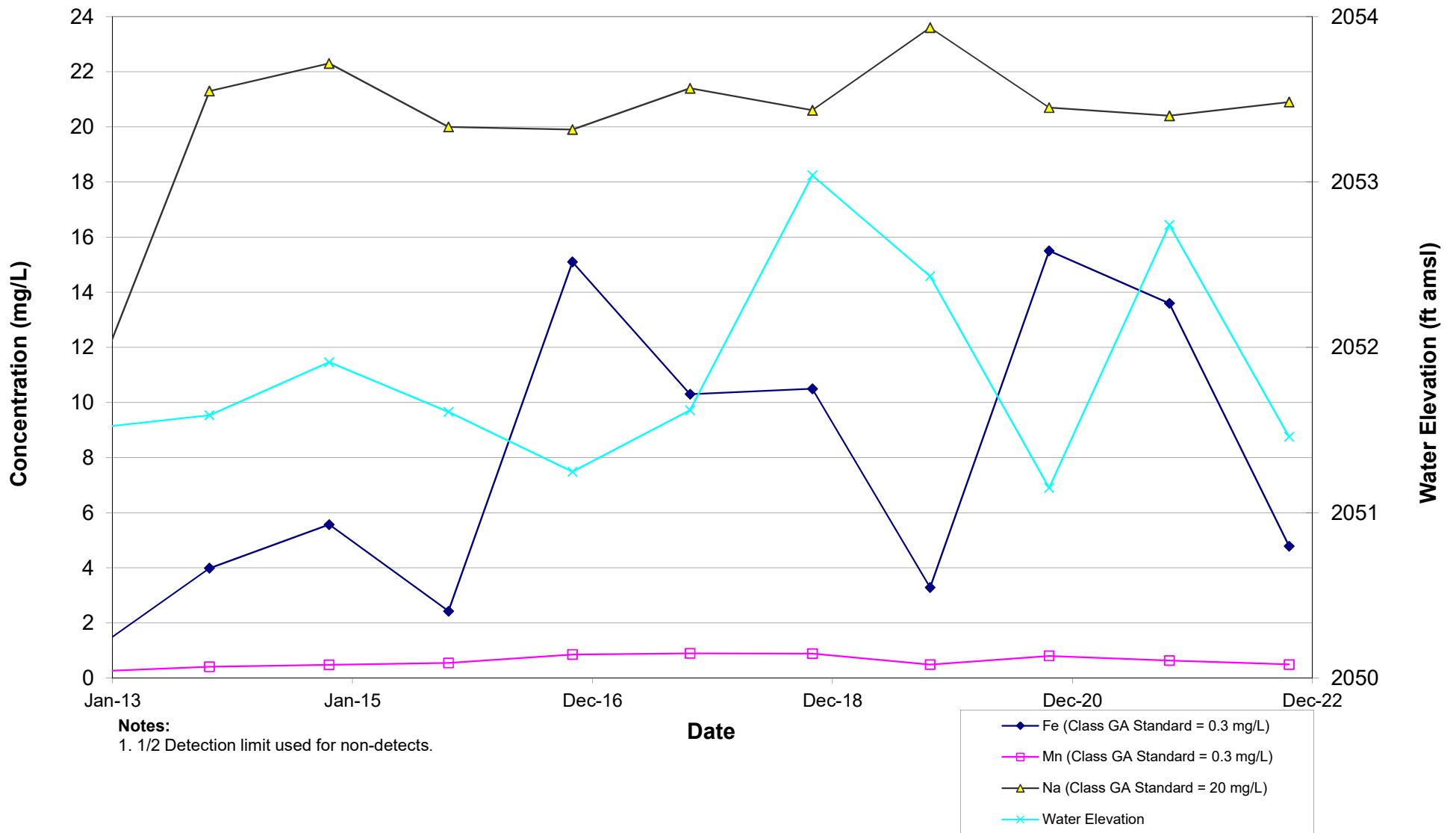
MW-17D Metals



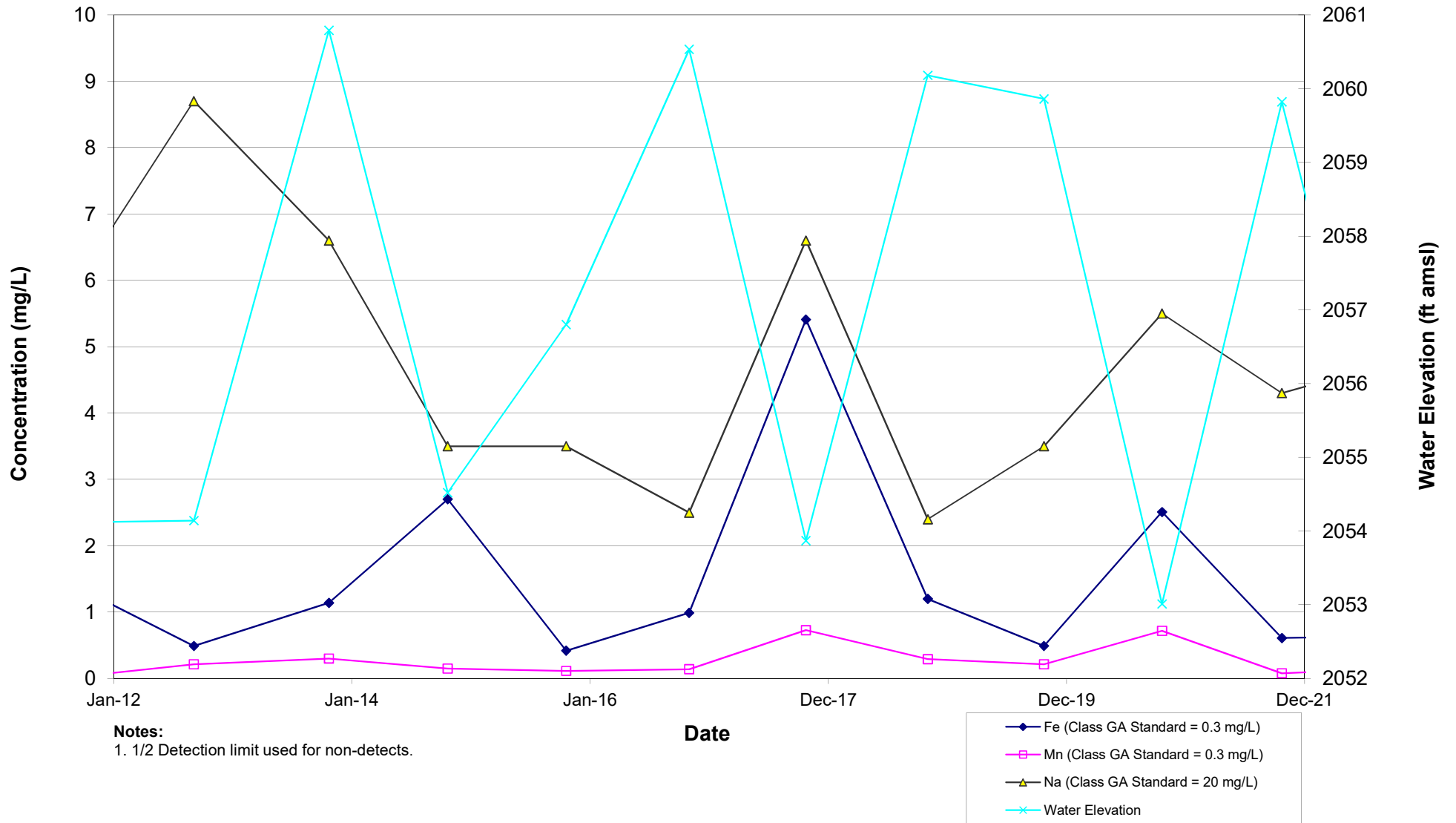
MW-17S Metals



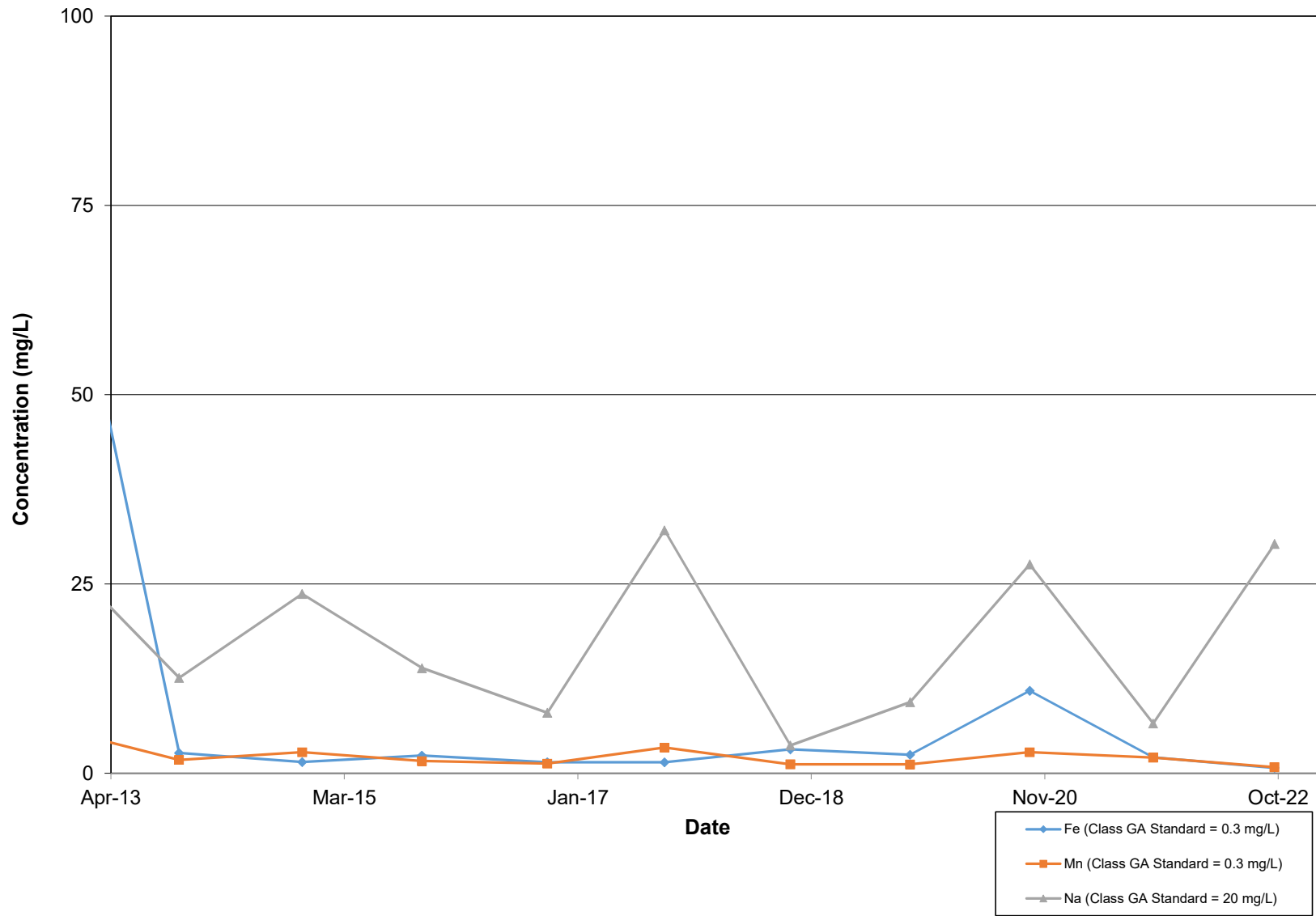
MW-18D Metals



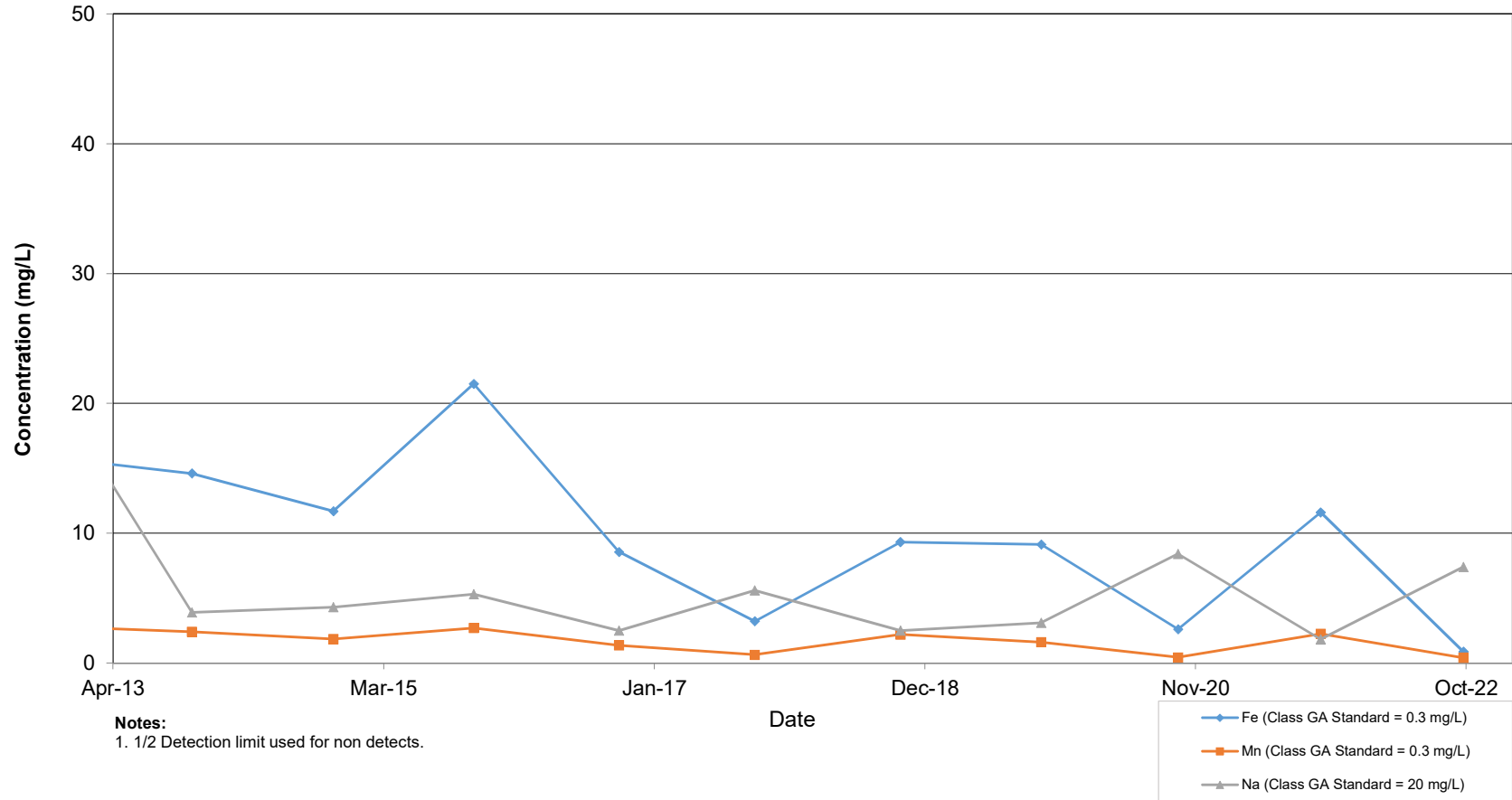
MW-18S Metals



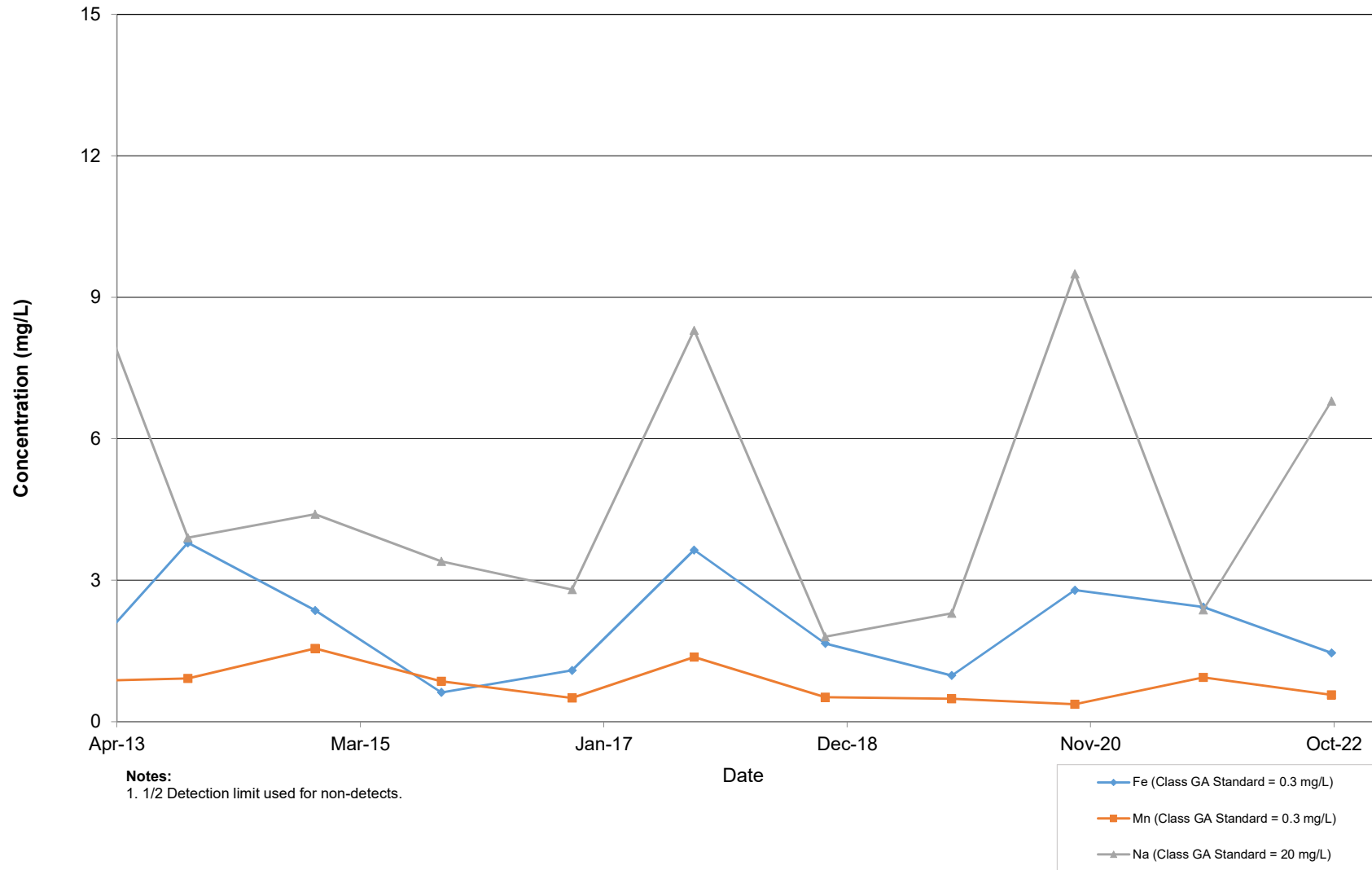
LS-1 Metals



MH-32 Metals



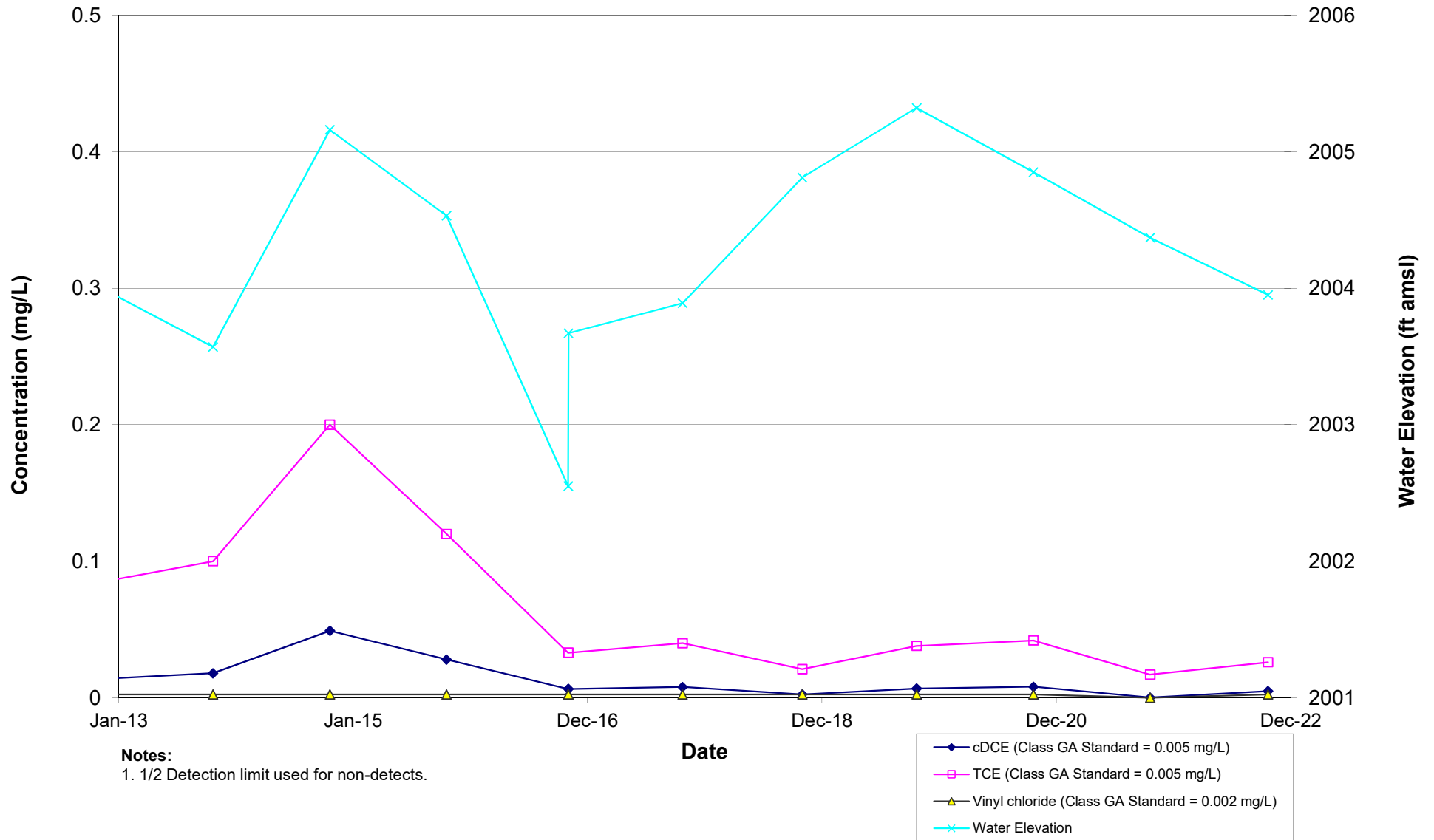
MH-33 Metals



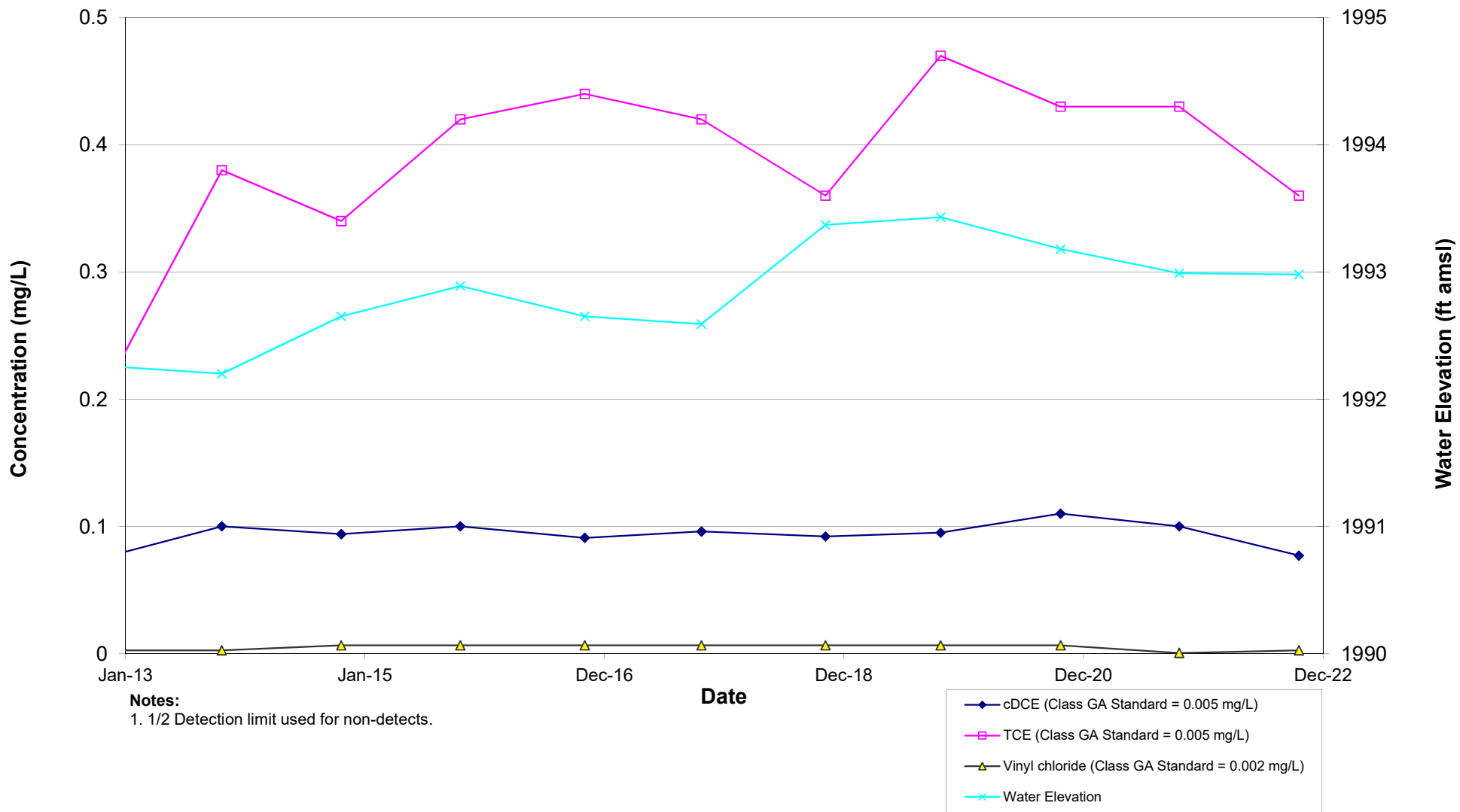
VOC's

Groundwater Concentration
Time Trend Plots

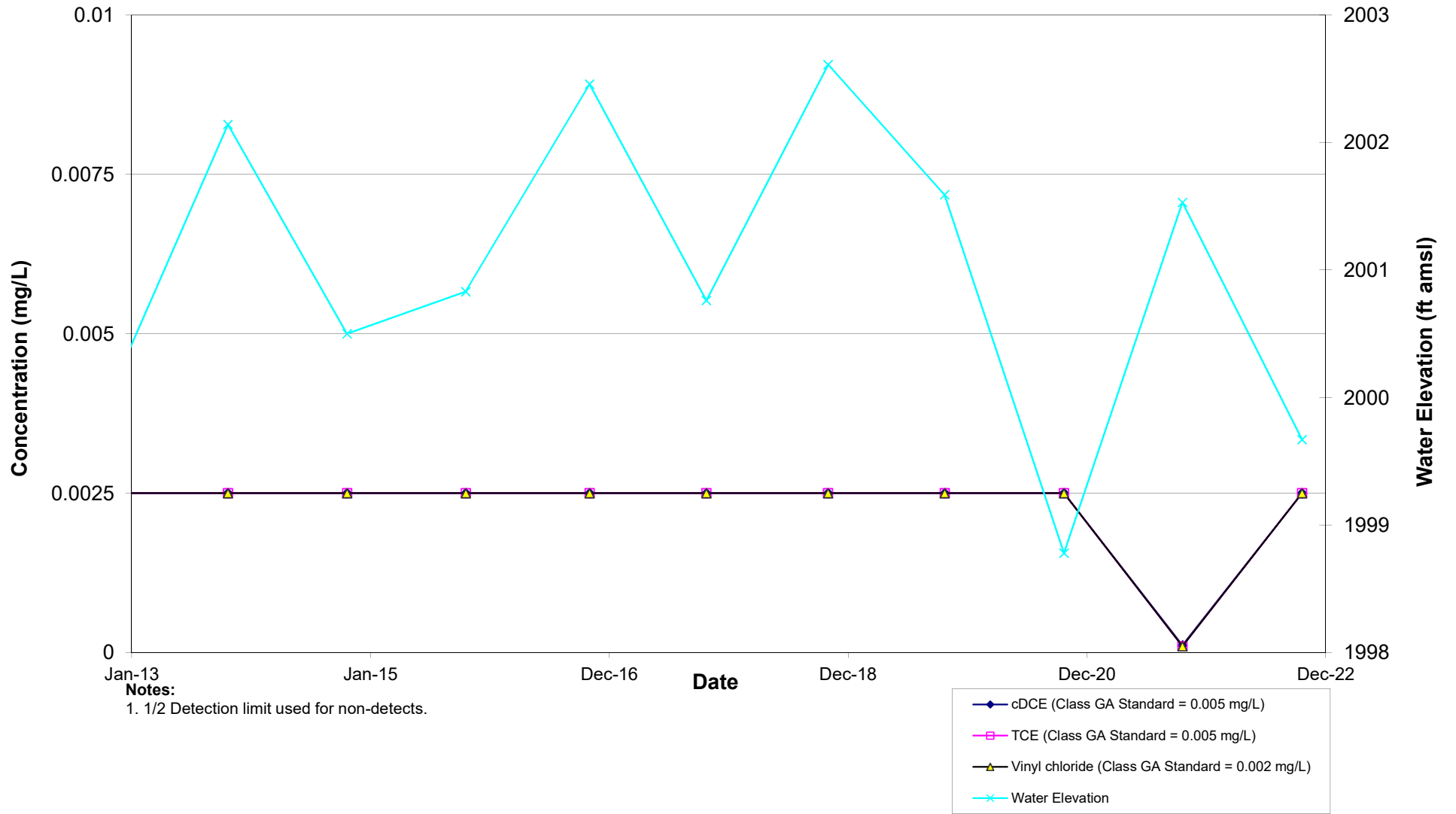
CW-3A VOCs



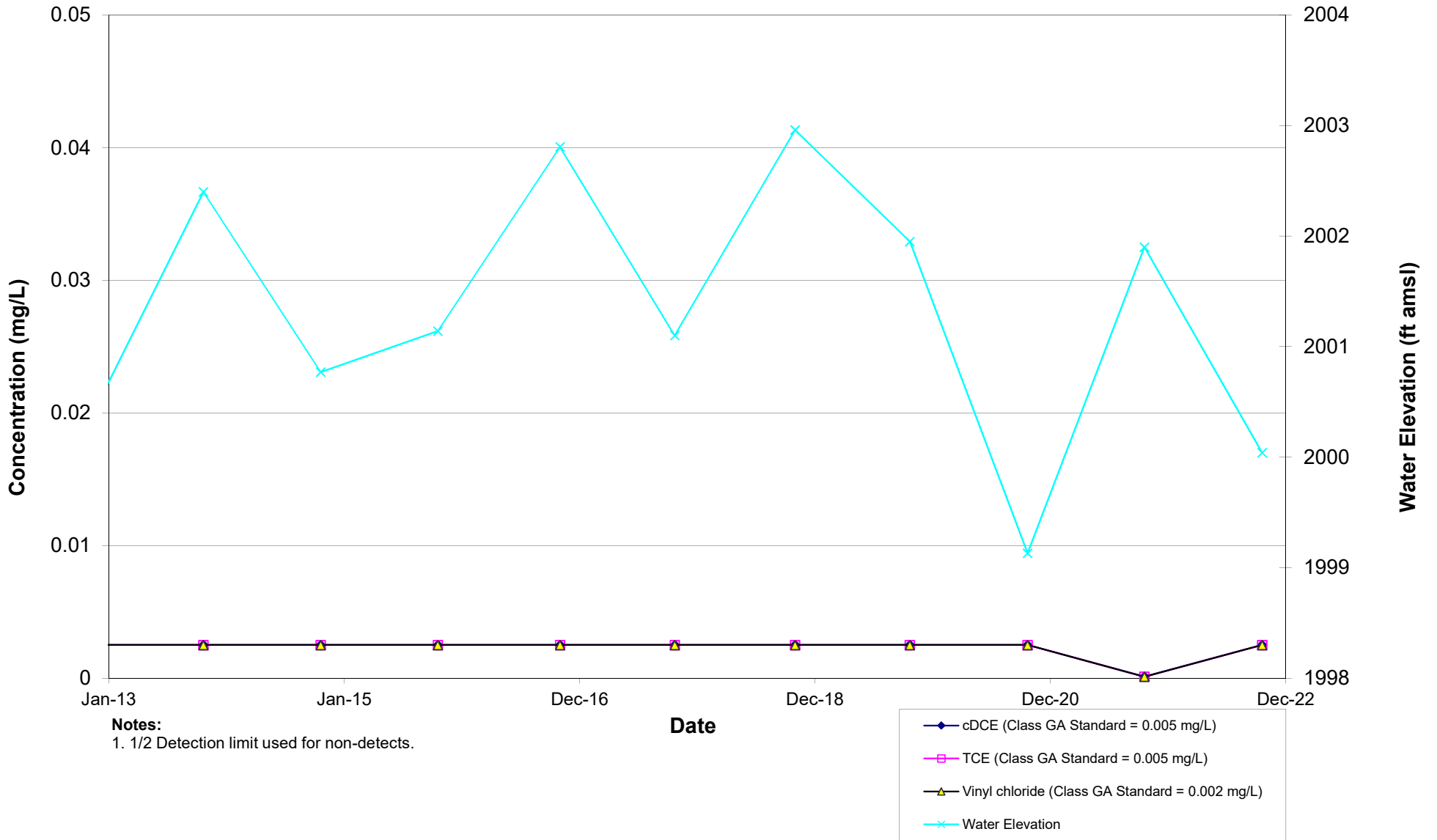
CW-3B VOCs



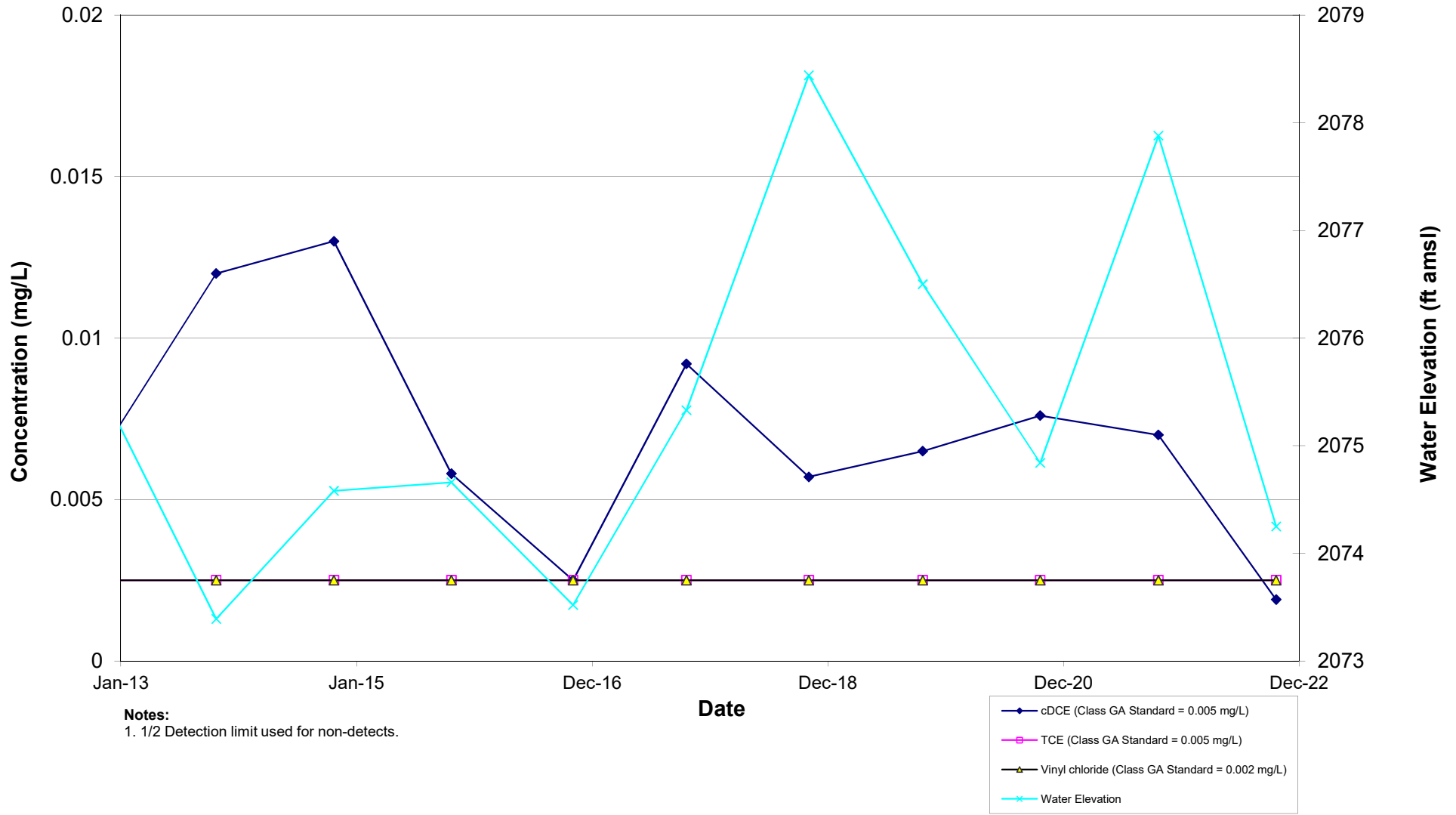
CW-4A VOCs



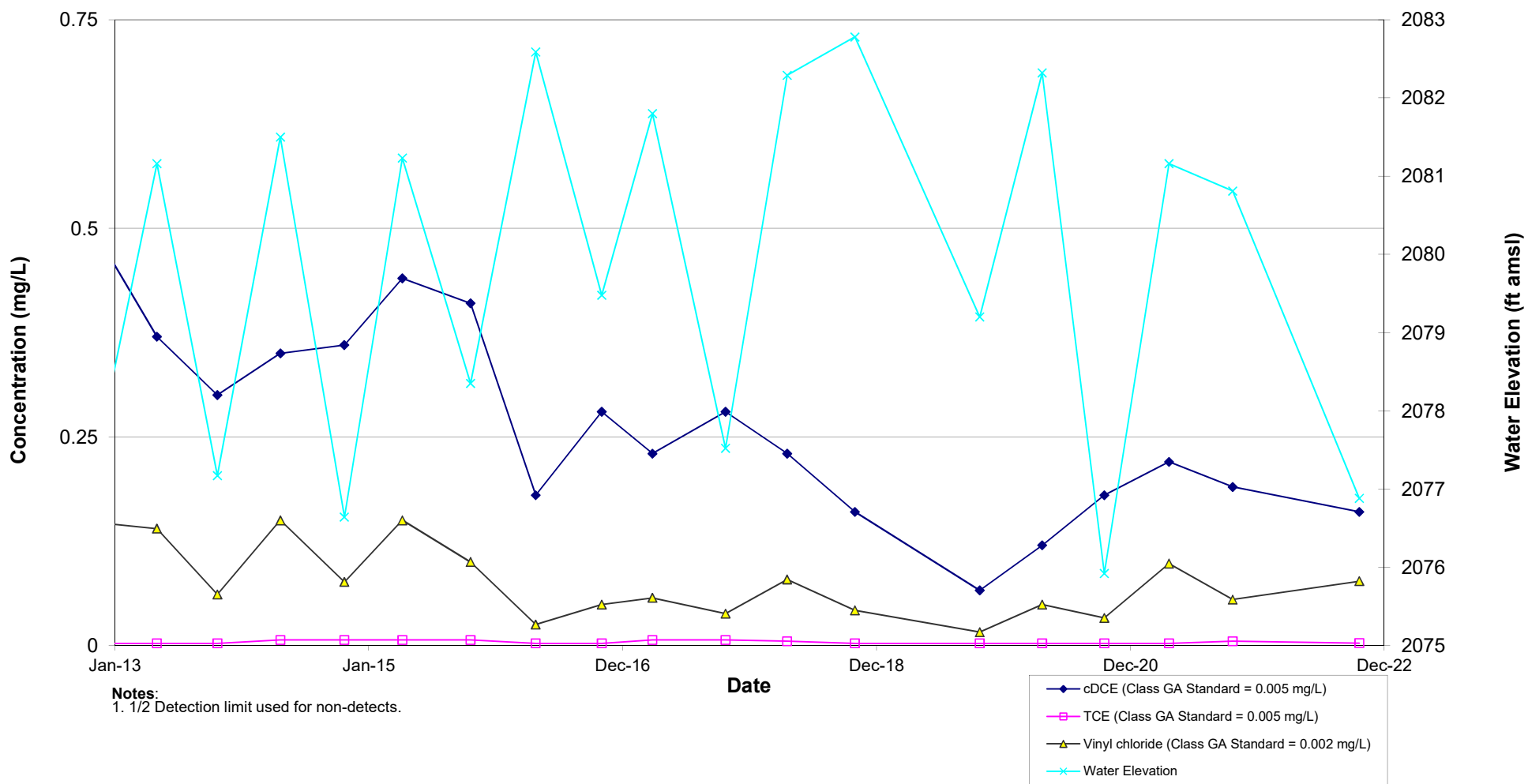
CW-4B VOCs



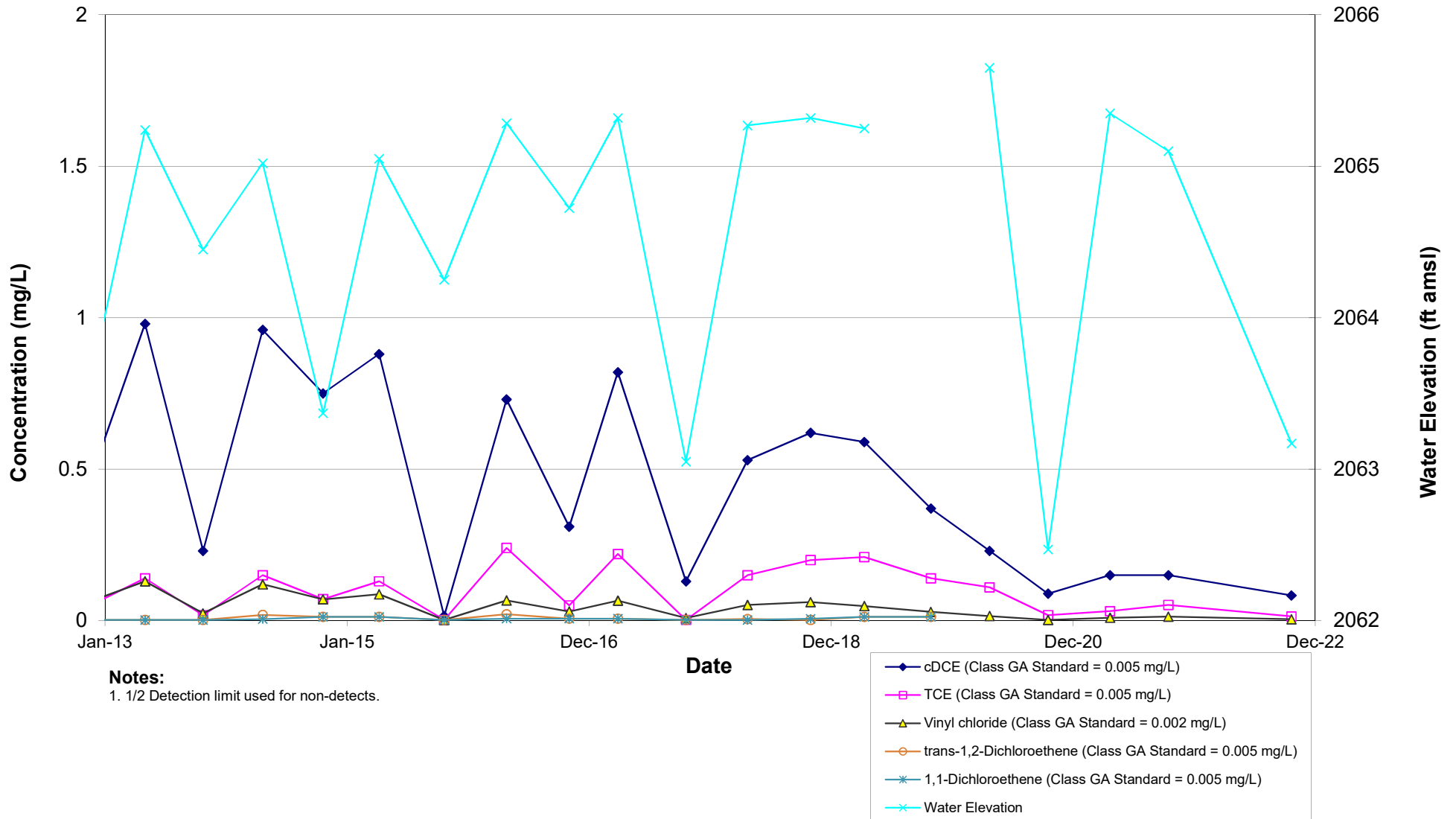
MW-3D VOCs



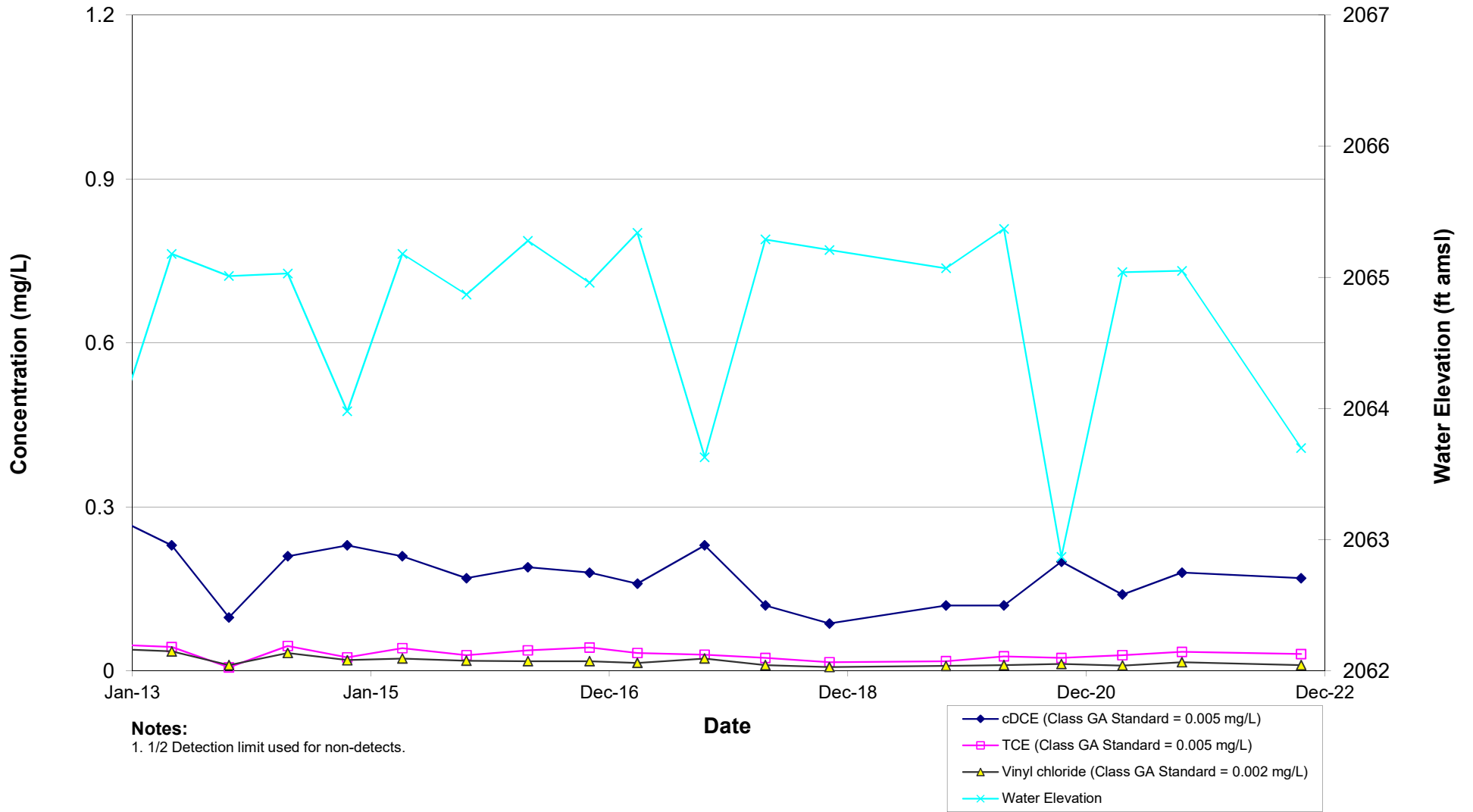
MW-4D VOCs



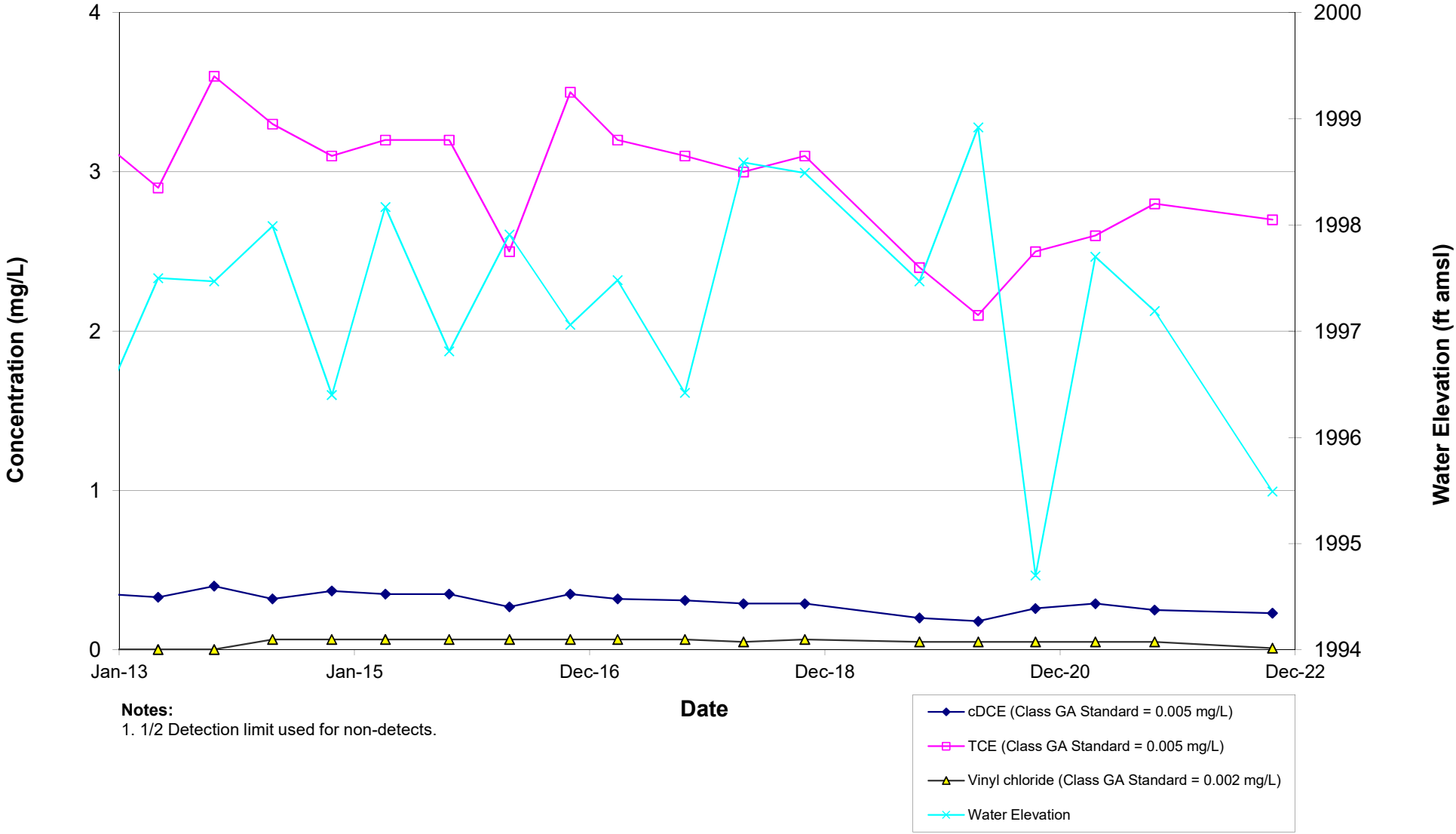
MW-5D VOCs



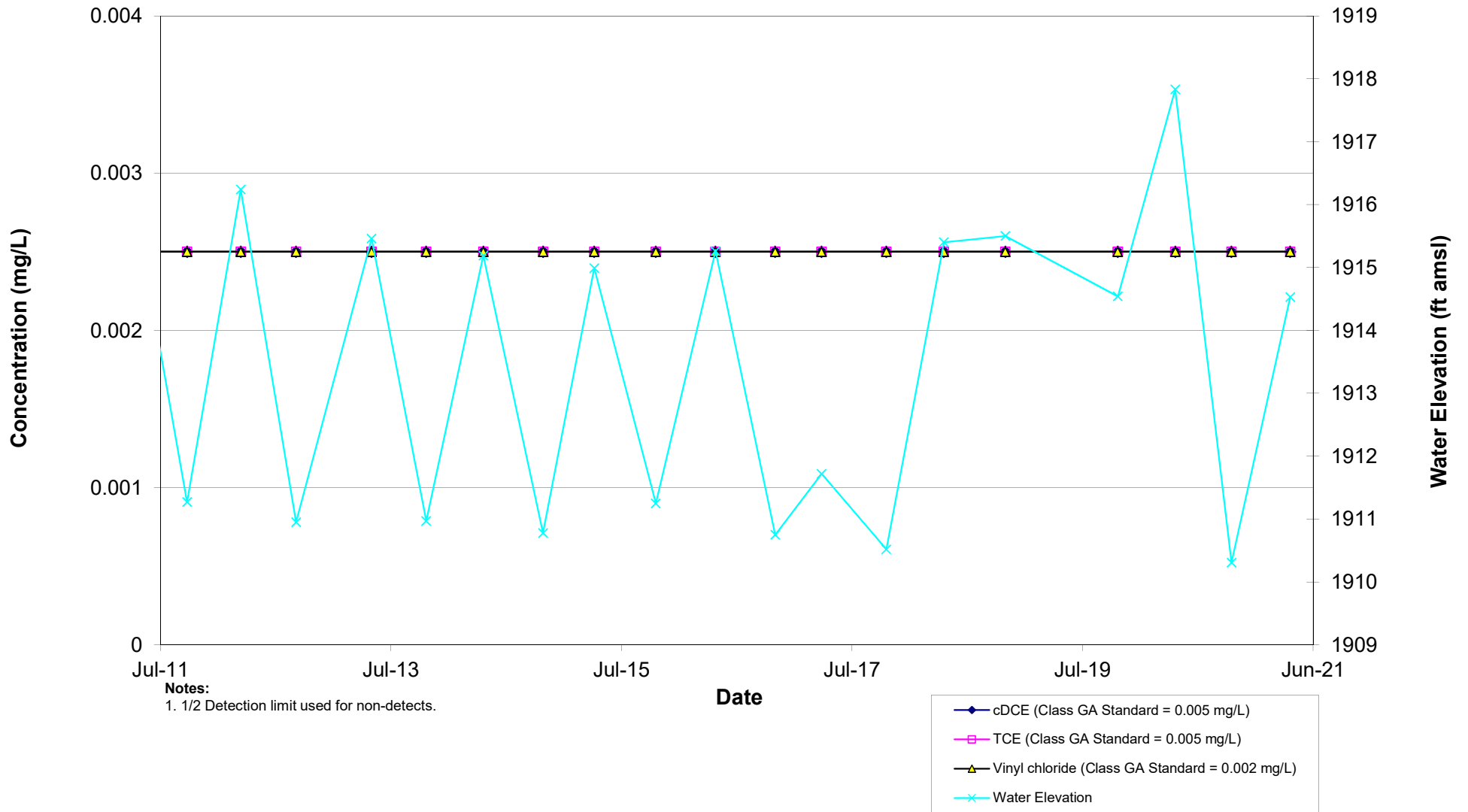
MW-5S VOCs



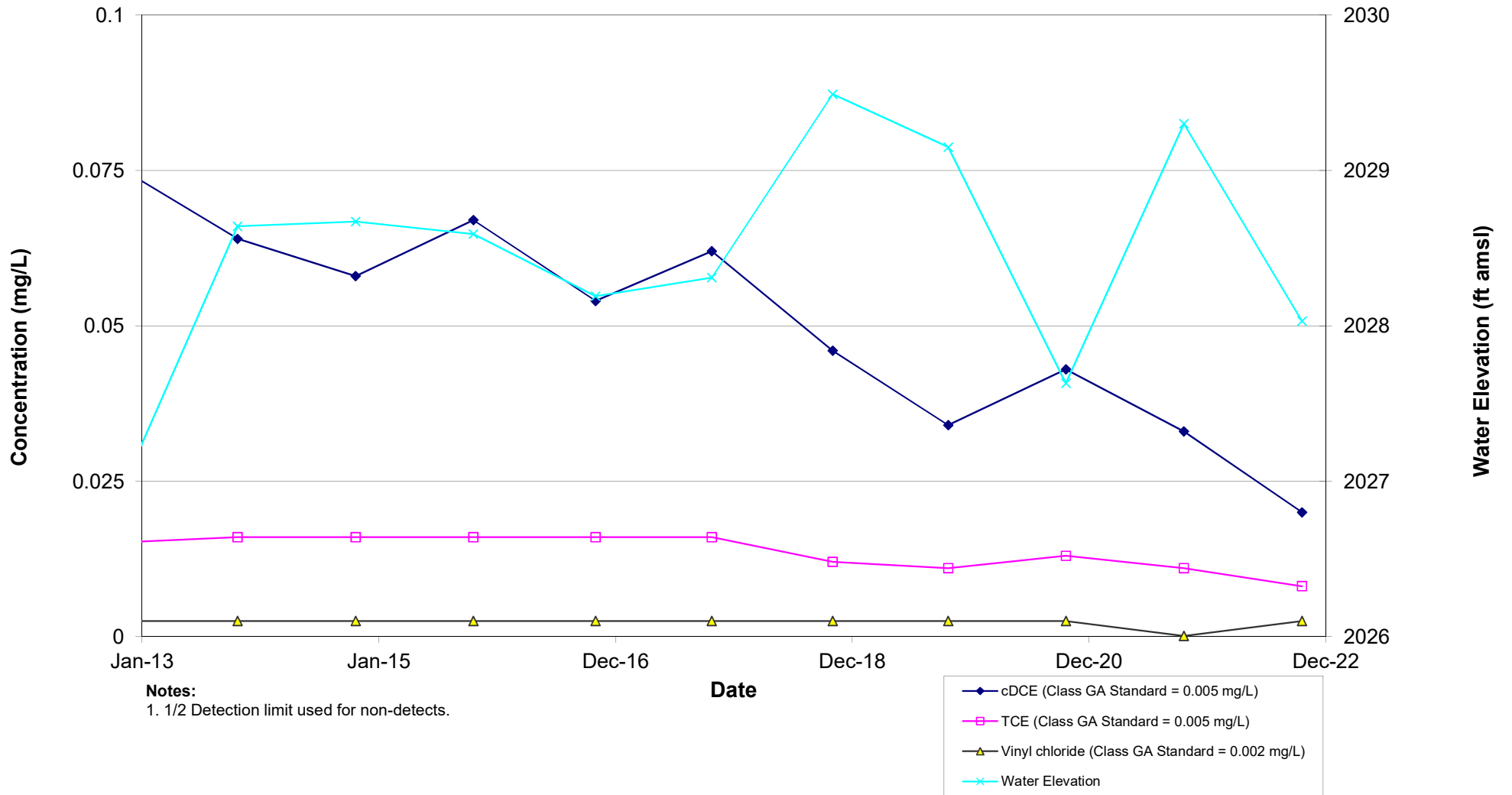
MW-11S VOCs



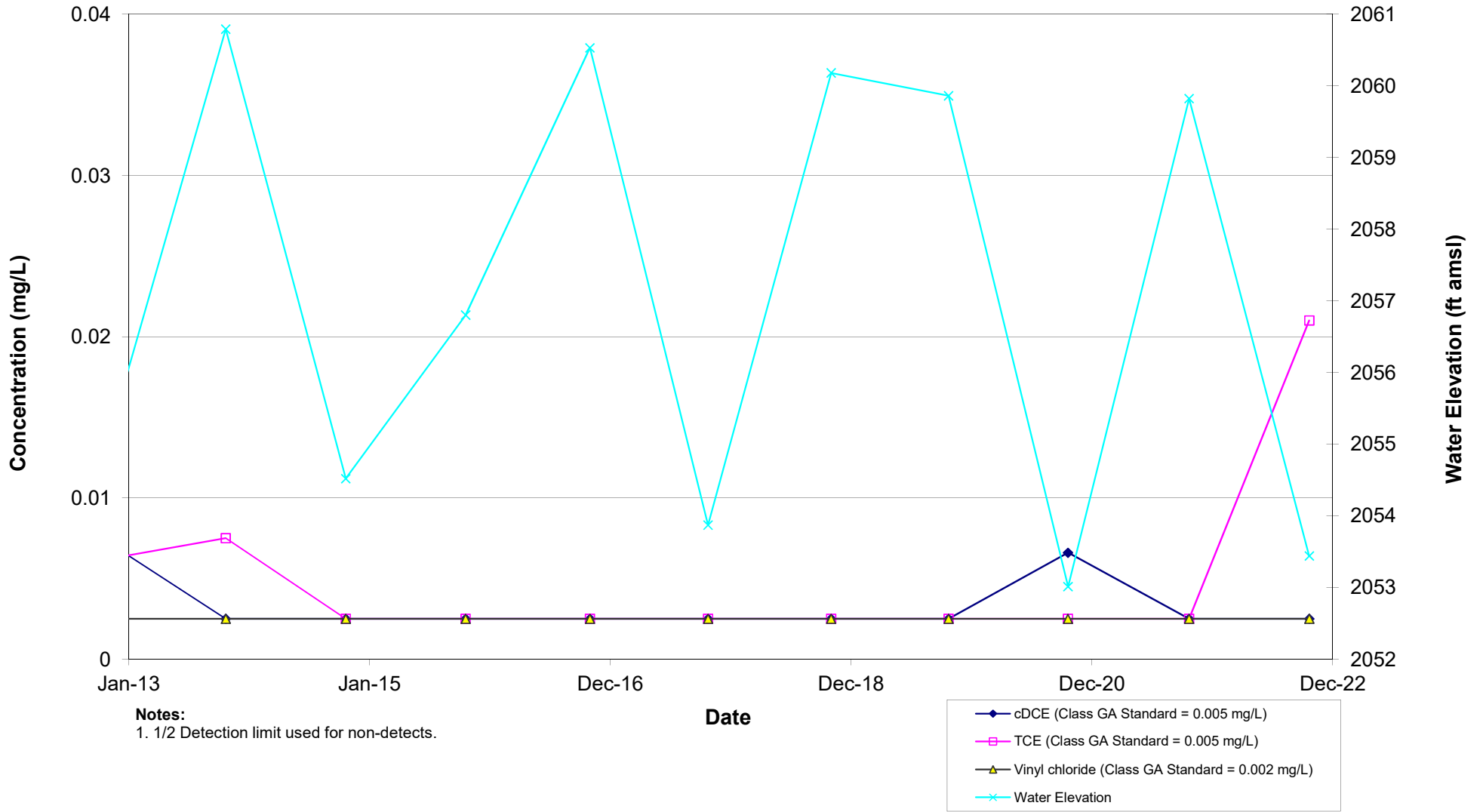
MW-16S VOCs



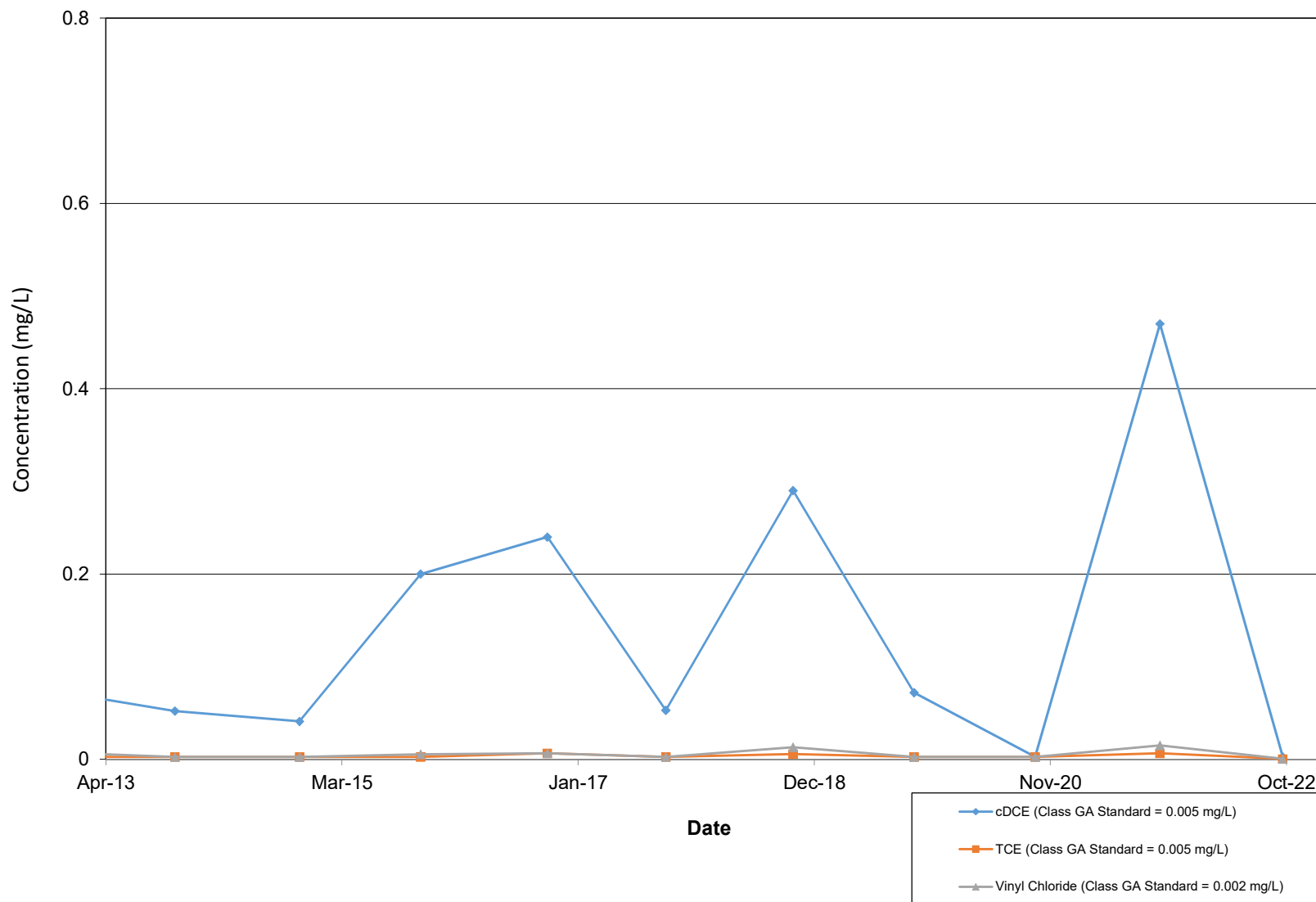
MW-17S VOCs



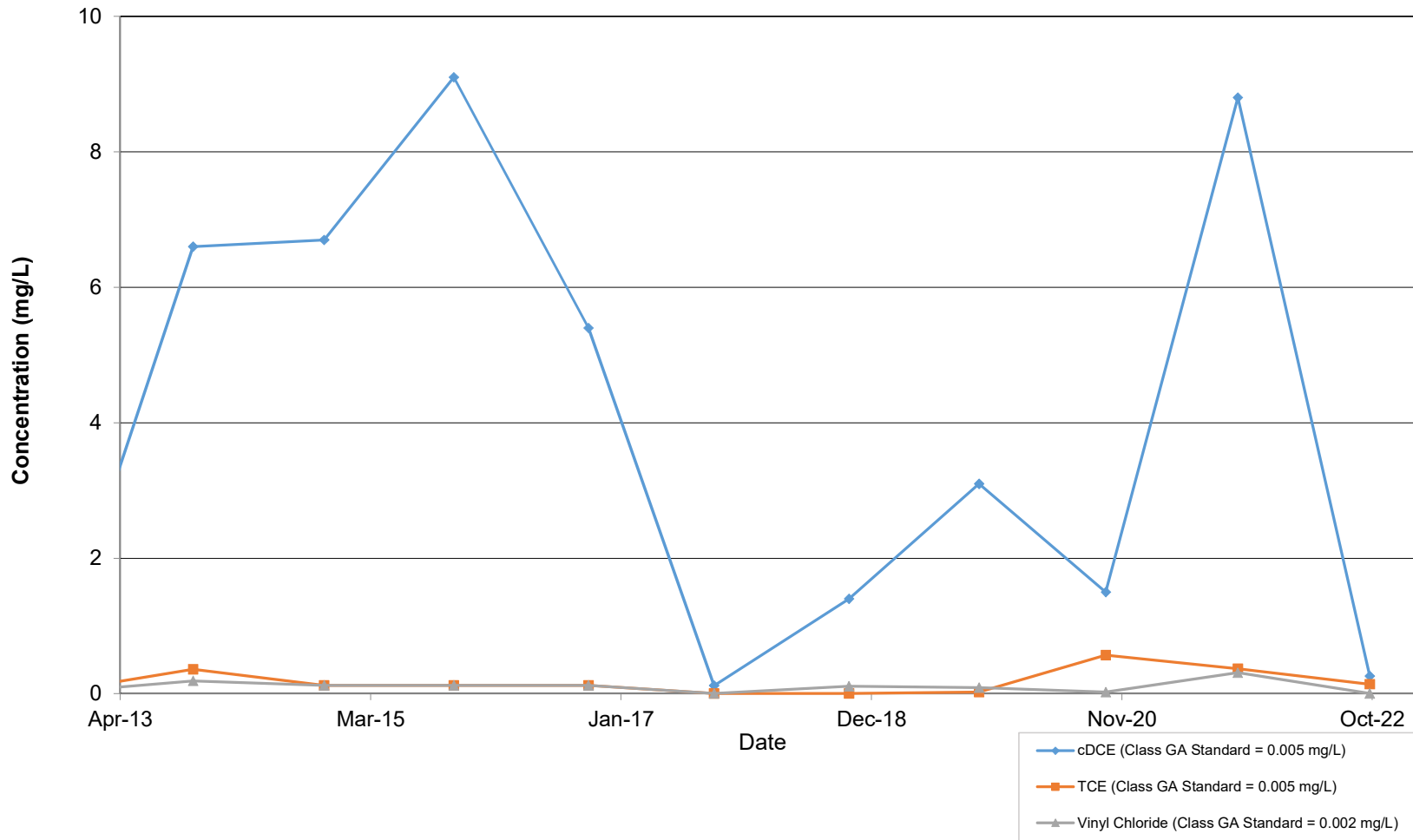
MW-18S VOCs



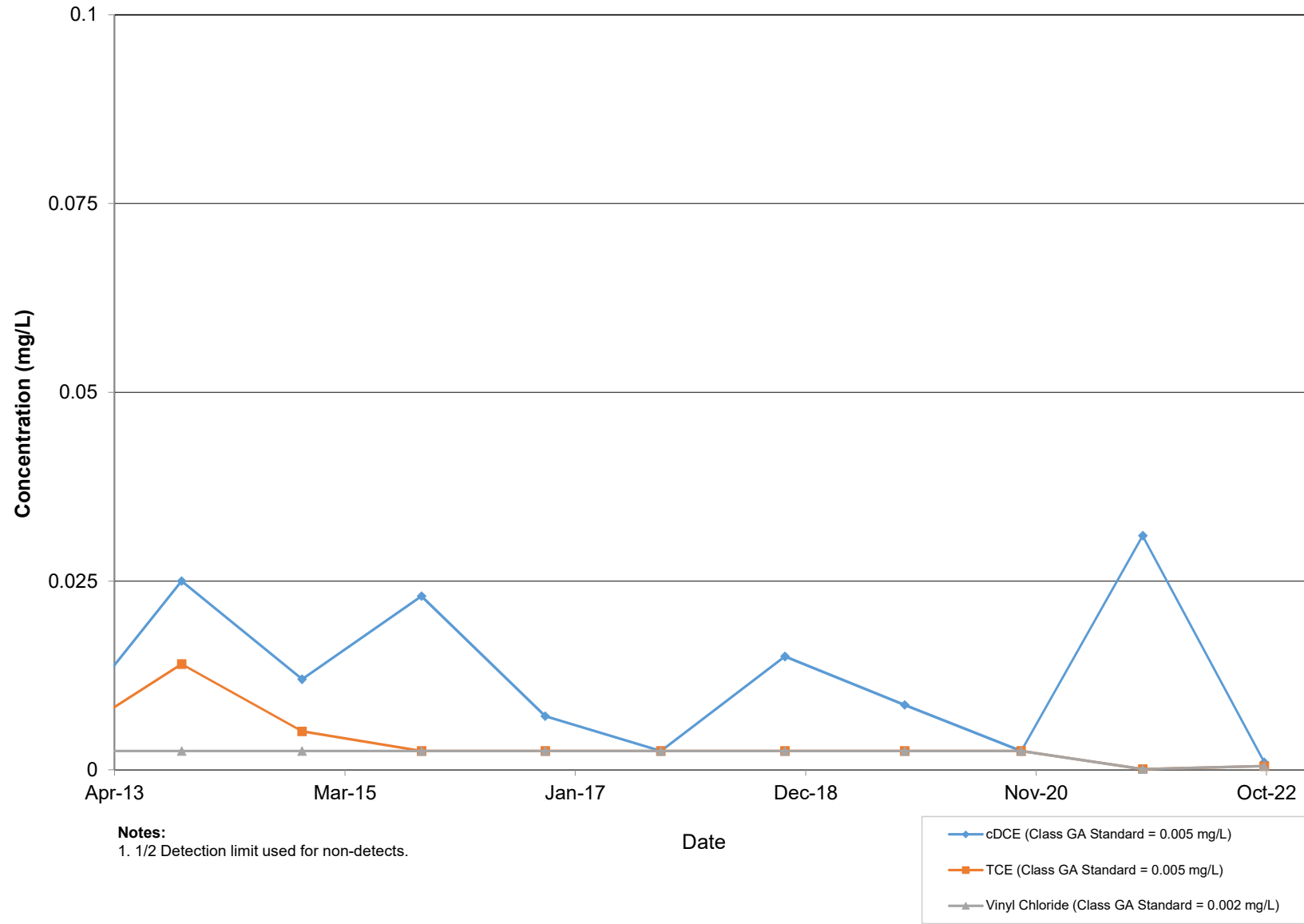
LS-1 VOCs



MH-32 VOCs



MH-33 VOCs



Appendix F

2022 Laboratory Analytical Reports



November 11, 2022

Service Request No:R2210211

Mr. Jon Brandes
On-Site Technical Services, Inc.
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: WAL - Semi-Annual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory October 25, 2022
For your reference, these analyses have been assigned our service request number **R2210211**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water, Water

Service Request: R2210211
Date Received: 10/25/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four drinking water, water samples were received for analysis at ALS Environmental on 10/25/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 300.0, 10/25/2022: The upper control limit was exceeded for Nitrate in the Continuing Calibration Verification (CCV). One or more of the field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Volatiles by GC/MS:

Method 524.2, 10/26/2022: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. The analytes affected are flagged in the LCS Summary.

Method 8260C, 10/31/2022: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 10/31/2022: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

A handwritten signature in black ink, appearing to read "Samanta", is written over a horizontal line.

Approved by _____

Date 11/11/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: WAL1-1022	Lab ID: R2210211-002
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Total	2.5			1.0	ug/L	200.8
Barium, Total	62.7			1.0	ug/L	200.8
Calcium, Total	42300			1000	ug/L	200.7
Copper, Total	1.9			1.0	ug/L	200.8
Magnesium, Total	14000			1000	ug/L	200.7
Manganese, Total	99			10	ug/L	200.7
Sodium, Total	9400			1000	ug/L	200.7
Zinc, Total	37			20	ug/L	200.7

CLIENT ID: MH33-1022	Lab ID: R2210211-003
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	49			20	ug/L	6010C
Calcium, Total	96600			1000	ug/L	6010C
cis-1,2-Dichloroethene	1.0			1.0	ug/L	8260C
Iron, Total	1460			100	ug/L	6010C
Magnesium, Total	22000			1000	ug/L	6010C
Manganese, Total	567			10	ug/L	6010C
Sodium, Total	6800			1000	ug/L	6010C
Solids, Total Dissolved (TDS)	360			10	mg/L	SM 2540 C-2015

CLIENT ID: MH32-1022	Lab ID: R2210211-004
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	100			20	ug/L	6010C
Calcium, Total	105000			1000	ug/L	6010C
cis-1,2-Dichloroethene	260			2.5	ug/L	8260C
Iron, Total	880			100	ug/L	6010C
Magnesium, Total	19600			1000	ug/L	6010C
Manganese, Total	405			10	ug/L	6010C
Methylene Chloride	16			2.5	ug/L	8260C
Potassium, Total	5600			2000	ug/L	6010C
Sodium, Total	7400			1000	ug/L	6010C
Solids, Total Dissolved (TDS)	405			10	mg/L	SM 2540 C-2015
Trichloroethene	140			2.5	ug/L	8260C
Vinyl Chloride	2.8			2.5	ug/L	8260C

CLIENT ID: MW17D-1022	Lab ID: R2210211-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	2500			1000	ug/L	6010C
Iron, Total	5500			100	ug/L	6010C
Magnesium, Total	21400			1000	ug/L	6010C
Manganese, Total	108			10	ug/L	6010C
Methylene Chloride	1.0			1.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW17D-1022		Lab ID: R2210211-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
Potassium, Total	6400			2000	ug/L	6010C
Sodium, Total	34200			1000	ug/L	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request:R2210211

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2210211-001	MW17D-1022	10/21/2022	1045
R2210211-002	WAL1-1022	10/21/2022	1325
R2210211-003	MH33-1022	10/24/2022	1315
R2210211-004	MH32-1022	10/24/2022	1330



ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: **On-Site**
72 Railroad Ave.
Wellsville, NY 14895
Project Manager: **Jon Brandes**

CHAIN of CUSTODY

Project: **WAL - Semiannual Sampling**
Telephone No. 585-593-1824
Email: jonb@on-sitchs.com

Method of Shipment
VPS

Special Detection
Limit/Reporting

Sample I.D.

Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	VOA's 8260 (HCl)	VOA's 524.2 (C6H8O6)	T-Metals (HNO3)	TDS, NO3, Br, Cl, SO4 (NP) (SW/SED)	NH3, TKN, COD (H2SO4) (SW/SED)	Total Color (NP) (SW/SED)	BOD (NP) (SW/SED)	Alkalinity (NP) (SW/SED)	TOC, Phenols (H2SO4) (SW/SED)	TDS, NO3 (NP) (Manhole)
		Soil	Water	Air	Other	Yes	No												
MW17D-1022	4	X			X		10-21-22	1045	X		X								
WAL1-1022	4	X			X		10-21-22	1325	X		X								
MH33-1022	5	X			X		10/24/22	1315	X		X							X	
MH32-1022	5	X			X		10/24/22	1330	X		X							X	

REMARKS

Sample Received Intact: Yes No Temperature received: Ice No ice

Relinquished by (Sign & Print Name) <i>Jon Brandes / Jonathan E Brandes</i>	Date Time 10/24/22 1400	Received by (Sign & Print Name) <i>Gregory O. Esmerman</i>	Date Time ALS 10/25/22 09:35
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by laboratory	Date Time

Lab Work No.

R2210211
On-Site Technical Services, Inc.
WAL - Semiannual Sampling

5



R2210211
On-Site Technical Services, Inc.
WAL - Semiannual Sampling

5

Cooler Receipt and Preservation Check Form

Project/Client ON-site Folder Number _____

Cooler received on 10/25/22 by: ME COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N	5a	Perchlorate samples have required headspace?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N	5b	Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT		
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N	7	Soil VOA received as:	Bulk	Encore	5035set NA

8. Temperature Readings Date: 10/25/22 Time: 09:54 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>25</u>							
Within 0-6°C?	<input checked="" type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by ME on 10/25/22 at 09:57
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/26/22 Time: 07:40 by: ME
9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? ME YES NO
10. Did all bottle labels and tags agree with custody papers? 10/26/22 YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>206722</u>	HNO ₃	<input checked="" type="checkbox"/>		<u>1121081</u>	<u>01/23</u>				
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>220780153</u>	<u>04/25</u>				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 22-0114, 22-0527, 080822-3EAT, 091222-3AXH, 050922-2ADM
Explain all Discrepancies/ Other Comments:

HNO₃ lot also: 1122031 exp: 05/23
HCl lot for 524 VOA: 052322-3ACI exp 06/25
C₆H₈O₆ Lot: AD4 11/22

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ME
PC Secondary Review: MS 11/7/22 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210211

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
524.2	Drinking Water	m,p-Xylenes
524.2	Drinking Water	o-Xylene

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2210211

Sample Name: MW17D-1022
Lab Code: R2210211-001
Sample Matrix: Water

Date Collected: 10/21/22
Date Received: 10/25/22

Analysis Method
6010C
8260C

Extracted/Digested By
NMANSEN

Analyzed By
NMANSEN
FNAEGLER

Sample Name: WAL1-1022
Lab Code: R2210211-002
Sample Matrix: Drinking Water

Date Collected: 10/21/22
Date Received: 10/25/22

Analysis Method
200.7
200.8
524.2

Extracted/Digested By
CDISTEFANO
CDISTEFANO

Analyzed By
NMANSEN
NMANSEN
KRUEST

Sample Name: MH33-1022
Lab Code: R2210211-003
Sample Matrix: Water

Date Collected: 10/24/22
Date Received: 10/25/22

Analysis Method
300.0
6010C
8260C
SM 2540 C-2015

Extracted/Digested By

NMANSEN

Analyzed By
SMORGAN
NMANSEN
FNAEGLER
HCASTROVINCI

Sample Name: MH32-1022
Lab Code: R2210211-004
Sample Matrix: Water

Date Collected: 10/24/22
Date Received: 10/25/22

Analysis Method
300.0
6010C
8260C
SM 2540 C-2015

Extracted/Digested By

NMANSEN

Analyzed By
SMORGAN
NMANSEN
FNAEGLER
HCASTROVINCI



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210211
Date Collected: 10/21/22 13:25
Date Received: 10/25/22 09:35

Sample Name: WAL1-1022
Lab Code: R2210211-002

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	10/27/22 00:32	
Bromobenzene	0.50 U	0.50	1	10/27/22 00:32	
Bromochloromethane	0.50 U	0.50	1	10/27/22 00:32	
Bromodichloromethane	0.50 U	0.50	1	10/27/22 00:32	
Bromoform	0.50 U	0.50	1	10/27/22 00:32	
Bromomethane	0.50 U	0.50	1	10/27/22 00:32	
Methyl tert-Butyl Ether	0.50 U	0.50	1	10/27/22 00:32	
tert-Butylbenzene	0.50 U	0.50	1	10/27/22 00:32	
sec-Butylbenzene	0.50 U	0.50	1	10/27/22 00:32	
n-Butylbenzene	0.50 U	0.50	1	10/27/22 00:32	
Carbon Tetrachloride	0.50 U	0.50	1	10/27/22 00:32	
Chlorobenzene	0.50 U	0.50	1	10/27/22 00:32	
Chloroethane	0.50 U	0.50	1	10/27/22 00:32	
Chloroform	0.50 U	0.50	1	10/27/22 00:32	
Chloromethane	0.50 U	0.50	1	10/27/22 00:32	
2-Chlorotoluene	0.50 U	0.50	1	10/27/22 00:32	
4-Chlorotoluene	0.50 U	0.50	1	10/27/22 00:32	
Dibromochloromethane	0.50 U	0.50	1	10/27/22 00:32	
Dibromomethane	0.50 U	0.50	1	10/27/22 00:32	
1,2-Dichlorobenzene	0.50 U	0.50	1	10/27/22 00:32	
1,4-Dichlorobenzene	0.50 U	0.50	1	10/27/22 00:32	
1,3-Dichlorobenzene	0.50 U	0.50	1	10/27/22 00:32	
Dichlorodifluoromethane	0.50 U	0.50	1	10/27/22 00:32	
1,1-Dichloroethane	0.50 U	0.50	1	10/27/22 00:32	
1,2-Dichloroethane	0.50 U	0.50	1	10/27/22 00:32	
1,1-Dichloroethene	0.50 U	0.50	1	10/27/22 00:32	
trans-1,2-Dichloroethene	0.50 U	0.50	1	10/27/22 00:32	
cis-1,2-Dichloroethene	0.50 U	0.50	1	10/27/22 00:32	
2,2-Dichloropropane	0.50 U	0.50	1	10/27/22 00:32	
1,2-Dichloropropane	0.50 U	0.50	1	10/27/22 00:32	
1,3-Dichloropropane	0.50 U	0.50	1	10/27/22 00:32	
trans-1,3-Dichloropropene	0.50 U	0.50	1	10/27/22 00:32	
cis-1,3-Dichloropropene	0.50 U	0.50	1	10/27/22 00:32	
Ethylbenzene	0.50 U	0.50	1	10/27/22 00:32	
Hexachlorobutadiene	0.50 U	0.50	1	10/27/22 00:32	
Isopropylbenzene	0.50 U	0.50	1	10/27/22 00:32	
p-Isopropyltoluene	0.50 U	0.50	1	10/27/22 00:32	
Methylene Chloride	0.50 U	0.50	1	10/27/22 00:32	
Naphthalene	0.50 U	0.50	1	10/27/22 00:32	
n-Propylbenzene	0.50 U	0.50	1	10/27/22 00:32	
Styrene	0.50 U	0.50	1	10/27/22 00:32	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	10/27/22 00:32	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	10/27/22 00:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210211
Date Collected: 10/21/22 13:25
Date Received: 10/25/22 09:35

Sample Name: WAL1-1022
Lab Code: R2210211-002

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	10/27/22 00:32	
Toluene	0.50 U	0.50	1	10/27/22 00:32	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	10/27/22 00:32	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	10/27/22 00:32	
1,1,2-Trichloroethane	0.50 U	0.50	1	10/27/22 00:32	
Trichloroethene	0.50 U	0.50	1	10/27/22 00:32	
Trichlorofluoromethane	0.50 U	0.50	1	10/27/22 00:32	
1,2,3-Trichloropropane	0.50 U	0.50	1	10/27/22 00:32	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	10/27/22 00:32	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	10/27/22 00:32	
Vinyl Chloride	0.50 U	0.50	1	10/27/22 00:32	
m,p-Xylenes	1.0 U	1.0	1	10/27/22 00:32	
o-Xylene	0.50 U	0.50	1	10/27/22 00:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	81	70 - 130	10/27/22 00:32	
1,2-Dichlorobenzene-d4	86	70 - 130	10/27/22 00:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/21/22 10:45
Date Received: 10/25/22 09:35

Sample Name: MW17D-1022
Lab Code: R2210211-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/31/22 05:36	
Benzene	1.0 U	1.0	1	10/31/22 05:36	
Bromodichloromethane	1.0 U	1.0	1	10/31/22 05:36	
Bromoform	1.0 U	1.0	1	10/31/22 05:36	
Bromomethane	1.0 U	1.0	1	10/31/22 05:36	
2-Butanone (MEK)	5.0 U	5.0	1	10/31/22 05:36	
Carbon Disulfide	1.0 U	1.0	1	10/31/22 05:36	
Carbon Tetrachloride	1.0 U	1.0	1	10/31/22 05:36	
Chlorobenzene	1.0 U	1.0	1	10/31/22 05:36	
Chloroethane	1.0 U	1.0	1	10/31/22 05:36	
Chloroform	1.0 U	1.0	1	10/31/22 05:36	
Chloromethane	1.0 U	1.0	1	10/31/22 05:36	
Dibromochloromethane	1.0 U	1.0	1	10/31/22 05:36	
1,1-Dichloroethane	1.0 U	1.0	1	10/31/22 05:36	
1,2-Dibromoethane	1.0 U	1.0	1	10/31/22 05:36	
1,2-Dichloroethane	1.0 U	1.0	1	10/31/22 05:36	
1,1-Dichloroethene	1.0 U	1.0	1	10/31/22 05:36	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/31/22 05:36	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/31/22 05:36	
1,2-Dichloropropane	1.0 U	1.0	1	10/31/22 05:36	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/31/22 05:36	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/31/22 05:36	
Ethylbenzene	1.0 U	1.0	1	10/31/22 05:36	
2-Hexanone	5.0 U	5.0	1	10/31/22 05:36	
Methylene Chloride	1.0	1.0	1	10/31/22 05:36	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/31/22 05:36	
Styrene	1.0 U	1.0	1	10/31/22 05:36	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/31/22 05:36	
Tetrachloroethene	1.0 U	1.0	1	10/31/22 05:36	
Toluene	1.0 U	1.0	1	10/31/22 05:36	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/31/22 05:36	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/31/22 05:36	
Trichloroethene	1.0 U	1.0	1	10/31/22 05:36	
Vinyl Chloride	1.0 U	1.0	1	10/31/22 05:36	
o-Xylene	1.0 U	1.0	1	10/31/22 05:36	
m,p-Xylenes	2.0 U	2.0	1	10/31/22 05:36	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/21/22 10:45
Date Received: 10/25/22 09:35

Sample Name: MW17D-1022
Lab Code: R2210211-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/31/22 05:36	
Toluene-d8	101	87 - 121	10/31/22 05:36	
Dibromofluoromethane	100	80 - 116	10/31/22 05:36	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/24/22 13:15
Date Received: 10/25/22 09:35

Sample Name: MH33-1022
Lab Code: R2210211-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/31/22 05:58	
Benzene	1.0 U	1.0	1	10/31/22 05:58	
Bromodichloromethane	1.0 U	1.0	1	10/31/22 05:58	
Bromoform	1.0 U	1.0	1	10/31/22 05:58	
Bromomethane	1.0 U	1.0	1	10/31/22 05:58	
2-Butanone (MEK)	5.0 U	5.0	1	10/31/22 05:58	
Carbon Disulfide	1.0 U	1.0	1	10/31/22 05:58	
Carbon Tetrachloride	1.0 U	1.0	1	10/31/22 05:58	
Chlorobenzene	1.0 U	1.0	1	10/31/22 05:58	
Chloroethane	1.0 U	1.0	1	10/31/22 05:58	
Chloroform	1.0 U	1.0	1	10/31/22 05:58	
Chloromethane	1.0 U	1.0	1	10/31/22 05:58	
Dibromochloromethane	1.0 U	1.0	1	10/31/22 05:58	
1,2-Dibromoethane	1.0 U	1.0	1	10/31/22 05:58	
1,1-Dichloroethane	1.0 U	1.0	1	10/31/22 05:58	
1,2-Dichloroethane	1.0 U	1.0	1	10/31/22 05:58	
1,1-Dichloroethene	1.0 U	1.0	1	10/31/22 05:58	
cis-1,2-Dichloroethene	1.0	1.0	1	10/31/22 05:58	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/31/22 05:58	
1,2-Dichloropropane	1.0 U	1.0	1	10/31/22 05:58	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/31/22 05:58	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/31/22 05:58	
Ethylbenzene	1.0 U	1.0	1	10/31/22 05:58	
2-Hexanone	5.0 U	5.0	1	10/31/22 05:58	
Methylene Chloride	1.0 U	1.0	1	10/31/22 05:58	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/31/22 05:58	
Styrene	1.0 U	1.0	1	10/31/22 05:58	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/31/22 05:58	
Tetrachloroethene	1.0 U	1.0	1	10/31/22 05:58	
Toluene	1.0 U	1.0	1	10/31/22 05:58	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/31/22 05:58	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/31/22 05:58	
Trichloroethene	1.0 U	1.0	1	10/31/22 05:58	
Vinyl Chloride	1.0 U	1.0	1	10/31/22 05:58	
o-Xylene	1.0 U	1.0	1	10/31/22 05:58	
m,p-Xylenes	2.0 U	2.0	1	10/31/22 05:58	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/24/22 13:15
Date Received: 10/25/22 09:35

Sample Name: MH33-1022
Lab Code: R2210211-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/31/22 05:58	
Toluene-d8	101	87 - 121	10/31/22 05:58	
Dibromofluoromethane	103	80 - 116	10/31/22 05:58	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/24/22 13:30
Date Received: 10/25/22 09:35

Sample Name: MH32-1022
Lab Code: R2210211-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	13 U	13	2.5	11/02/22 18:07	
Benzene	2.5 U	2.5	2.5	11/02/22 18:07	
Bromodichloromethane	2.5 U	2.5	2.5	11/02/22 18:07	
Bromoform	2.5 U	2.5	2.5	11/02/22 18:07	
Bromomethane	2.5 U	2.5	2.5	11/02/22 18:07	
2-Butanone (MEK)	13 U	13	2.5	11/02/22 18:07	
Carbon Disulfide	2.5 U	2.5	2.5	11/02/22 18:07	
Carbon Tetrachloride	2.5 U	2.5	2.5	11/02/22 18:07	
Chlorobenzene	2.5 U	2.5	2.5	11/02/22 18:07	
Chloroethane	2.5 U	2.5	2.5	11/02/22 18:07	
Chloroform	2.5 U	2.5	2.5	11/02/22 18:07	
Chloromethane	2.5 U	2.5	2.5	11/02/22 18:07	
Dibromochloromethane	2.5 U	2.5	2.5	11/02/22 18:07	
1,1-Dichloroethane	2.5 U	2.5	2.5	11/02/22 18:07	
1,2-Dibromoethane	2.5 U	2.5	2.5	11/02/22 18:07	
1,2-Dichloroethane	2.5 U	2.5	2.5	11/02/22 18:07	
1,1-Dichloroethene	2.5 U	2.5	2.5	11/02/22 18:07	
cis-1,2-Dichloroethene	260	2.5	2.5	11/02/22 18:07	
trans-1,2-Dichloroethene	2.5 U	2.5	2.5	11/02/22 18:07	
1,2-Dichloropropane	2.5 U	2.5	2.5	11/02/22 18:07	
cis-1,3-Dichloropropene	2.5 U	2.5	2.5	11/02/22 18:07	
trans-1,3-Dichloropropene	2.5 U	2.5	2.5	11/02/22 18:07	
Ethylbenzene	2.5 U	2.5	2.5	11/02/22 18:07	
2-Hexanone	13 U	13	2.5	11/02/22 18:07	
Methylene Chloride	16	2.5	2.5	11/02/22 18:07	
4-Methyl-2-pentanone (MIBK)	13 U	13	2.5	11/02/22 18:07	
Styrene	2.5 U	2.5	2.5	11/02/22 18:07	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	2.5	11/02/22 18:07	
Tetrachloroethene	2.5 U	2.5	2.5	11/02/22 18:07	
Toluene	2.5 U	2.5	2.5	11/02/22 18:07	
1,1,1-Trichloroethane	2.5 U	2.5	2.5	11/02/22 18:07	
1,1,2-Trichloroethane	2.5 U	2.5	2.5	11/02/22 18:07	
Trichloroethene	140	2.5	2.5	11/02/22 18:07	
Vinyl Chloride	2.8	2.5	2.5	11/02/22 18:07	
o-Xylene	2.5 U	2.5	2.5	11/02/22 18:07	
m,p-Xylenes	5.0 U	5.0	2.5	11/02/22 18:07	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/24/22 13:30
Date Received: 10/25/22 09:35

Sample Name: MH32-1022
Lab Code: R2210211-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	11/02/22 18:07	
Toluene-d8	102	87 - 121	11/02/22 18:07	
Dibromofluoromethane	100	80 - 116	11/02/22 18:07	



Metals

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/21/22 10:45
Date Received: 10/25/22 09:35

Sample Name: MW17D-1022
Lab Code: R2210211-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/02/22 00:16	10/30/22	
Barium, Total	6010C	20 U	ug/L	20	1	11/02/22 00:16	10/30/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 00:16	10/30/22	
Calcium, Total	6010C	2500	ug/L	1000	1	11/02/22 00:16	10/30/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/02/22 00:16	10/30/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/02/22 00:16	10/30/22	
Iron, Total	6010C	5500	ug/L	100	1	11/04/22 18:19	10/30/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 00:16	10/30/22	
Magnesium, Total	6010C	21400	ug/L	1000	1	11/02/22 00:16	10/30/22	
Manganese, Total	6010C	108	ug/L	10	1	11/02/22 00:16	10/30/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/02/22 00:16	10/30/22	
Potassium, Total	6010C	6400	ug/L	2000	1	11/02/22 00:16	10/30/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/02/22 00:16	10/30/22	
Sodium, Total	6010C	34200	ug/L	1000	1	11/04/22 18:19	10/30/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/02/22 00:16	10/30/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL1-1022
Lab Code: R2210211-002

Service Request: R2210211
Date Collected: 10/21/22 13:25
Date Received: 10/25/22 09:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	200.8	2.5	ug/L	1.0	1	11/07/22 15:01	11/04/22	
Barium, Total	200.8	62.7	ug/L	1.0	1	11/07/22 15:01	11/04/22	
Cadmium, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 15:01	11/04/22	
Calcium, Total	200.7	42300	ug/L	1000	1	11/03/22 19:48	11/02/22	
Chromium, Total	200.7	10 U	ug/L	10	1	11/03/22 19:48	11/02/22	
Copper, Total	200.8	1.9	ug/L	1.0	1	11/07/22 15:01	11/04/22	
Iron, Total	200.7	100 U	ug/L	100	1	11/03/22 19:48	11/02/22	
Lead, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 15:01	11/04/22	
Magnesium, Total	200.7	14000	ug/L	1000	1	11/03/22 19:48	11/02/22	
Manganese, Total	200.7	99	ug/L	10	1	11/03/22 19:48	11/02/22	
Nickel, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 15:01	11/04/22	
Potassium, Total	200.7	2000 U	ug/L	2000	1	11/03/22 19:48	11/02/22	
Selenium, Total	200.8	2.0 U	ug/L	2.0	1	11/07/22 15:01	11/04/22	
Sodium, Total	200.7	9400	ug/L	1000	1	11/07/22 16:47	11/02/22	
Zinc, Total	200.7	37	ug/L	20	1	11/03/22 19:48	11/02/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: 10/24/22 13:15
Date Received: 10/25/22 09:35

Sample Name: MH33-1022
Lab Code: R2210211-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/02/22 01:53	10/30/22	
Barium, Total	6010C	49	ug/L	20	1	11/02/22 01:53	10/30/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 01:53	10/30/22	
Calcium, Total	6010C	96600	ug/L	1000	1	11/02/22 01:53	10/30/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/02/22 01:53	10/30/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/02/22 01:53	10/30/22	
Iron, Total	6010C	1460	ug/L	100	1	11/02/22 01:53	10/30/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 01:53	10/30/22	
Magnesium, Total	6010C	22000	ug/L	1000	1	11/02/22 01:53	10/30/22	
Manganese, Total	6010C	567	ug/L	10	1	11/02/22 01:53	10/30/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/02/22 01:53	10/30/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/02/22 01:53	10/30/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/02/22 01:53	10/30/22	
Sodium, Total	6010C	6800	ug/L	1000	1	11/02/22 01:53	10/30/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/02/22 01:53	10/30/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MH32-1022
Lab Code: R2210211-004

Service Request: R2210211
Date Collected: 10/24/22 13:30
Date Received: 10/25/22 09:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/02/22 01:56	10/30/22	
Barium, Total	6010C	100	ug/L	20	1	11/02/22 01:56	10/30/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 01:56	10/30/22	
Calcium, Total	6010C	105000	ug/L	1000	1	11/02/22 01:56	10/30/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/02/22 01:56	10/30/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/02/22 01:56	10/30/22	
Iron, Total	6010C	880	ug/L	100	1	11/02/22 01:56	10/30/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 01:56	10/30/22	
Magnesium, Total	6010C	19600	ug/L	1000	1	11/02/22 01:56	10/30/22	
Manganese, Total	6010C	405	ug/L	10	1	11/02/22 01:56	10/30/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/02/22 01:56	10/30/22	
Potassium, Total	6010C	5600	ug/L	2000	1	11/02/22 01:56	10/30/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/02/22 01:56	10/30/22	
Sodium, Total	6010C	7400	ug/L	1000	1	11/02/22 01:56	10/30/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/02/22 01:56	10/30/22	



General Chemistry

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MH33-1022
Lab Code: R2210211-003

Service Request: R2210211
Date Collected: 10/24/22 13:15
Date Received: 10/25/22 09:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	10/25/22 16:08	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	360	mg/L	10	1	10/28/22 09:45	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MH32-1022
Lab Code: R2210211-004

Service Request: R2210211
Date Collected: 10/24/22 13:30
Date Received: 10/25/22 09:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	10/25/22 16:15	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	405	mg/L	10	1	10/28/22 09:45	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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Phone (585) 288-5380 Fax (585) 288-8475
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Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210211

SURROGATE RECOVERY SUMMARY
Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Extraction Method:

Sample Name	Lab Code	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
		70-130	70-130
WAL1-1022	R2210211-002	81	86
Method Blank	RQ2213361-05	84	84
Lab Control Sample	RQ2213361-03	95	98
Duplicate Lab Control Sample	RQ2213361-04	94	103

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210211
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213361-05

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	10/26/22 19:51	
Bromobenzene	0.50 U	0.50	1	10/26/22 19:51	
Bromochloromethane	0.50 U	0.50	1	10/26/22 19:51	
Bromodichloromethane	0.50 U	0.50	1	10/26/22 19:51	
Bromoform	0.50 U	0.50	1	10/26/22 19:51	
Bromomethane	0.50 U	0.50	1	10/26/22 19:51	
Methyl tert-Butyl Ether	0.50 U	0.50	1	10/26/22 19:51	
tert-Butylbenzene	0.50 U	0.50	1	10/26/22 19:51	
sec-Butylbenzene	0.50 U	0.50	1	10/26/22 19:51	
n-Butylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Carbon Tetrachloride	0.50 U	0.50	1	10/26/22 19:51	
Chlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
Chloroethane	0.50 U	0.50	1	10/26/22 19:51	
Chloroform	0.50 U	0.50	1	10/26/22 19:51	
Chloromethane	0.50 U	0.50	1	10/26/22 19:51	
2-Chlorotoluene	0.50 U	0.50	1	10/26/22 19:51	
4-Chlorotoluene	0.50 U	0.50	1	10/26/22 19:51	
Dibromochloromethane	0.50 U	0.50	1	10/26/22 19:51	
Dibromomethane	0.50 U	0.50	1	10/26/22 19:51	
1,2-Dichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,4-Dichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,3-Dichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
Dichlorodifluoromethane	0.50 U	0.50	1	10/26/22 19:51	
1,1-Dichloroethane	0.50 U	0.50	1	10/26/22 19:51	
1,2-Dichloroethane	0.50 U	0.50	1	10/26/22 19:51	
1,1-Dichloroethene	0.50 U	0.50	1	10/26/22 19:51	
trans-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 19:51	
cis-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 19:51	
2,2-Dichloropropane	0.50 U	0.50	1	10/26/22 19:51	
1,2-Dichloropropane	0.50 U	0.50	1	10/26/22 19:51	
1,3-Dichloropropane	0.50 U	0.50	1	10/26/22 19:51	
trans-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 19:51	
cis-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 19:51	
Ethylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Hexachlorobutadiene	0.50 U	0.50	1	10/26/22 19:51	
Isopropylbenzene	0.50 U	0.50	1	10/26/22 19:51	
p-Isopropyltoluene	0.50 U	0.50	1	10/26/22 19:51	
Methylene Chloride	0.50 U	0.50	1	10/26/22 19:51	
Naphthalene	0.50 U	0.50	1	10/26/22 19:51	
n-Propylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Styrene	0.50 U	0.50	1	10/26/22 19:51	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 19:51	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 19:51	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water
Sample Name: Method Blank
Lab Code: RQ2213361-05

Service Request: R2210211
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	10/26/22 19:51	
Toluene	0.50 U	0.50	1	10/26/22 19:51	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,1,2-Trichloroethane	0.50 U	0.50	1	10/26/22 19:51	
Trichloroethene	0.50 U	0.50	1	10/26/22 19:51	
Trichlorofluoromethane	0.50 U	0.50	1	10/26/22 19:51	
1,2,3-Trichloropropane	0.50 U	0.50	1	10/26/22 19:51	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	10/26/22 19:51	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Vinyl Chloride	0.50 U	0.50	1	10/26/22 19:51	
m,p-Xylenes	1.0 U	1.0	1	10/26/22 19:51	
o-Xylene	0.50 U	0.50	1	10/26/22 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	84	70 - 130	10/26/22 19:51	
1,2-Dichlorobenzene-d4	84	70 - 130	10/26/22 19:51	

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dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210211
Date Analyzed: 10/26/22

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2213361-03				Duplicate Lab Control Sample RQ2213361-04				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzene	524.2	4.81	5.00	96	4.80	5.00	96	70-130	<1	20
Bromobenzene	524.2	5.09	5.00	102	5.05	5.00	101	70-130	<1	20
Bromochloromethane	524.2	4.80	5.00	96	4.68	5.00	94	70-130	3	20
Bromodichloromethane	524.2	4.74	5.00	95	4.70	5.00	94	70-130	<1	20
Bromoform	524.2	5.63	5.00	113	5.67	5.00	113	70-130	<1	20
Bromomethane	524.2	4.11	5.00	82	4.13	5.00	83	70-130	<1	20
Methyl tert-Butyl Ether	524.2	4.78	5.00	96	4.80	5.00	96	70-130	<1	20
tert-Butylbenzene	524.2	5.25	5.00	105	5.13	5.00	103	70-130	2	20
sec-Butylbenzene	524.2	5.46	5.00	109	5.42	5.00	108	70-130	<1	20
n-Butylbenzene	524.2	5.53	5.00	111	5.34	5.00	107	70-130	3	20
Carbon Tetrachloride	524.2	5.16	5.00	103	5.22	5.00	104	70-130	1	20
Chlorobenzene	524.2	5.26	5.00	105	5.05	5.00	101	70-130	4	20
Chloroethane	524.2	4.19	5.00	84	4.24	5.00	85	70-130	1	20
Chloroform	524.2	5.03	5.00	101	4.94	5.00	99	70-130	2	20
Chloromethane	524.2	4.36	5.00	87	4.38	5.00	88	70-130	<1	20
2-Chlorotoluene	524.2	5.40	5.00	108	5.32	5.00	106	70-130	1	20
4-Chlorotoluene	524.2	5.29	5.00	106	5.27	5.00	105	70-130	<1	20
Dibromochloromethane	524.2	4.78	5.00	96	4.91	5.00	98	70-130	3	20
Dibromomethane	524.2	4.81	5.00	96	4.89	5.00	98	70-130	2	20
1,2-Dichlorobenzene	524.2	5.42	5.00	108	5.36	5.00	107	70-130	1	20
1,4-Dichlorobenzene	524.2	5.51	5.00	110	5.41	5.00	108	70-130	2	20
1,3-Dichlorobenzene	524.2	5.58	5.00	112	5.55	5.00	111	70-130	<1	20
Dichlorodifluoromethane	524.2	3.15	5.00	63 *	3.13	5.00	63 *	70-130	<1	20
1,1-Dichloroethane	524.2	5.11	5.00	102	5.03	5.00	101	70-130	2	20
1,2-Dichloroethane	524.2	5.01	5.00	100	4.93	5.00	99	70-130	2	20
1,1-Dichloroethene	524.2	5.04	5.00	101	4.99	5.00	100	70-130	<1	20
trans-1,2-Dichloroethene	524.2	5.00	5.00	100	4.78	5.00	96	70-130	4	20
cis-1,2-Dichloroethene	524.2	4.81	5.00	96	4.77	5.00	95	70-130	<1	20
2,2-Dichloropropane	524.2	5.81	5.00	116	5.84	5.00	117	70-130	<1	20
1,2-Dichloropropane	524.2	4.73	5.00	95	4.81	5.00	96	70-130	2	20
1,3-Dichloropropane	524.2	4.97	5.00	99	4.97	5.00	99	70-130	<1	20
trans-1,3-Dichloropropene	524.2	4.95	5.00	99	5.03	5.00	101	70-130	2	20
cis-1,3-Dichloropropene	524.2	4.84	5.00	97	4.91	5.00	98	70-130	1	20

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210211
Date Analyzed: 10/26/22

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2213361-03				Duplicate Lab Control Sample RQ2213361-04					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethylbenzene	524.2	5.21	5.00	104	4.92	5.00	98	70-130	6	20
Hexachlorobutadiene	524.2	5.86	5.00	117	5.80	5.00	116	70-130	1	20
Isopropylbenzene	524.2	5.34	5.00	107	5.32	5.00	106	70-130	<1	20
p-Isopropyltoluene	524.2	5.53	5.00	111	5.35	5.00	107	70-130	3	20
Methylene Chloride	524.2	4.59	5.00	92	4.44	5.00	89	70-130	3	20
Naphthalene	524.2	4.61	5.00	92	4.69	5.00	94	70-130	2	20
n-Propylbenzene	524.2	5.48	5.00	110	5.36	5.00	107	70-130	2	20
Styrene	524.2	5.06	5.00	101	4.82	5.00	96	70-130	5	20
1,1,1,2-Tetrachloroethane	524.2	5.50	5.00	110	5.46	5.00	109	70-130	<1	20
1,1,2,2-Tetrachloroethane	524.2	5.78	5.00	116	5.82	5.00	116	70-130	<1	20
Tetrachloroethene	524.2	5.57	5.00	111	5.31	5.00	106	70-130	5	20
Toluene	524.2	4.77	5.00	95	4.84	5.00	97	70-130	1	20
1,2,4-Trichlorobenzene	524.2	4.61	5.00	92	4.66	5.00	93	70-130	1	20
1,2,3-Trichlorobenzene	524.2	4.74	5.00	95	4.78	5.00	96	70-130	<1	20
1,1,2-Trichloroethane	524.2	5.07	5.00	101	5.05	5.00	101	70-130	<1	20
Trichloroethene	524.2	4.84	5.00	97	4.99	5.00	100	70-130	3	20
Trichlorofluoromethane	524.2	5.04	5.00	101	4.88	5.00	98	70-130	3	20
1,2,3-Trichloropropane	524.2	5.70	5.00	114	5.39	5.00	108	70-130	6	20
1,3,5-Trimethylbenzene	524.2	5.22	5.00	104	5.15	5.00	103	70-130	1	20
1,2,4-Trimethylbenzene	524.2	5.35	5.00	107	5.24	5.00	105	70-130	2	20
Vinyl Chloride	524.2	3.93	5.00	79	3.84	5.00	77	70-130	2	20
m,p-Xylenes	524.2	10.6	10.0	106	10.4	10.0	104	70-130	2	20
o-Xylene	524.2	4.99	5.00	100	5.03	5.00	101	70-130	<1	20

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Toluene-d8	Dibromofluoromethane
		85-122	87-121	80-116
MW17D-1022	R2210211-001	103	101	100
MH33-1022	R2210211-003	99	101	103
MH32-1022	R2210211-004	101	102	100
Method Blank	RQ2213544-04	101	101	101
Method Blank	RQ2213696-04	100	101	101
Lab Control Sample	RQ2213544-03	101	101	103
Lab Control Sample	RQ2213696-03	104	103	106

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213544-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/31/22 00:47	
Benzene	1.0 U	1.0	1	10/31/22 00:47	
Bromodichloromethane	1.0 U	1.0	1	10/31/22 00:47	
Bromoform	1.0 U	1.0	1	10/31/22 00:47	
Bromomethane	1.0 U	1.0	1	10/31/22 00:47	
2-Butanone (MEK)	5.0 U	5.0	1	10/31/22 00:47	
Carbon Disulfide	1.0 U	1.0	1	10/31/22 00:47	
Carbon Tetrachloride	1.0 U	1.0	1	10/31/22 00:47	
Chlorobenzene	1.0 U	1.0	1	10/31/22 00:47	
Chloroethane	1.0 U	1.0	1	10/31/22 00:47	
Chloroform	1.0 U	1.0	1	10/31/22 00:47	
Chloromethane	1.0 U	1.0	1	10/31/22 00:47	
Dibromochloromethane	1.0 U	1.0	1	10/31/22 00:47	
1,1-Dichloroethane	1.0 U	1.0	1	10/31/22 00:47	
1,2-Dibromoethane	1.0 U	1.0	1	10/31/22 00:47	
1,2-Dichloroethane	1.0 U	1.0	1	10/31/22 00:47	
1,1-Dichloroethene	1.0 U	1.0	1	10/31/22 00:47	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/31/22 00:47	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/31/22 00:47	
1,2-Dichloropropane	1.0 U	1.0	1	10/31/22 00:47	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/31/22 00:47	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/31/22 00:47	
Ethylbenzene	1.0 U	1.0	1	10/31/22 00:47	
2-Hexanone	5.0 U	5.0	1	10/31/22 00:47	
Methylene Chloride	1.0 U	1.0	1	10/31/22 00:47	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/31/22 00:47	
Styrene	1.0 U	1.0	1	10/31/22 00:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/31/22 00:47	
Tetrachloroethene	1.0 U	1.0	1	10/31/22 00:47	
Toluene	1.0 U	1.0	1	10/31/22 00:47	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/31/22 00:47	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/31/22 00:47	
Trichloroethene	1.0 U	1.0	1	10/31/22 00:47	
Vinyl Chloride	1.0 U	1.0	1	10/31/22 00:47	
o-Xylene	1.0 U	1.0	1	10/31/22 00:47	
m,p-Xylenes	2.0 U	2.0	1	10/31/22 00:47	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213544-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/31/22 00:47	
Toluene-d8	101	87 - 121	10/31/22 00:47	
Dibromofluoromethane	101	80 - 116	10/31/22 00:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213696-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	11/02/22 11:50	
Benzene	1.0 U	1.0	1	11/02/22 11:50	
Bromodichloromethane	1.0 U	1.0	1	11/02/22 11:50	
Bromoform	1.0 U	1.0	1	11/02/22 11:50	
Bromomethane	1.0 U	1.0	1	11/02/22 11:50	
2-Butanone (MEK)	5.0 U	5.0	1	11/02/22 11:50	
Carbon Disulfide	1.0 U	1.0	1	11/02/22 11:50	
Carbon Tetrachloride	1.0 U	1.0	1	11/02/22 11:50	
Chlorobenzene	1.0 U	1.0	1	11/02/22 11:50	
Chloroethane	1.0 U	1.0	1	11/02/22 11:50	
Chloroform	1.0 U	1.0	1	11/02/22 11:50	
Chloromethane	1.0 U	1.0	1	11/02/22 11:50	
Dibromochloromethane	1.0 U	1.0	1	11/02/22 11:50	
1,2-Dibromoethane	1.0 U	1.0	1	11/02/22 11:50	
1,1-Dichloroethane	1.0 U	1.0	1	11/02/22 11:50	
1,2-Dichloroethane	1.0 U	1.0	1	11/02/22 11:50	
1,1-Dichloroethene	1.0 U	1.0	1	11/02/22 11:50	
cis-1,2-Dichloroethene	1.0 U	1.0	1	11/02/22 11:50	
trans-1,2-Dichloroethene	1.0 U	1.0	1	11/02/22 11:50	
1,2-Dichloropropane	1.0 U	1.0	1	11/02/22 11:50	
cis-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 11:50	
trans-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 11:50	
Ethylbenzene	1.0 U	1.0	1	11/02/22 11:50	
2-Hexanone	5.0 U	5.0	1	11/02/22 11:50	
Methylene Chloride	1.0 U	1.0	1	11/02/22 11:50	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	11/02/22 11:50	
Styrene	1.0 U	1.0	1	11/02/22 11:50	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	11/02/22 11:50	
Tetrachloroethene	1.0 U	1.0	1	11/02/22 11:50	
Toluene	1.0 U	1.0	1	11/02/22 11:50	
1,1,1-Trichloroethane	1.0 U	1.0	1	11/02/22 11:50	
1,1,2-Trichloroethane	1.0 U	1.0	1	11/02/22 11:50	
Trichloroethene	1.0 U	1.0	1	11/02/22 11:50	
Vinyl Chloride	1.0 U	1.0	1	11/02/22 11:50	
o-Xylene	1.0 U	1.0	1	11/02/22 11:50	
m,p-Xylenes	2.0 U	2.0	1	11/02/22 11:50	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213696-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	11/02/22 11:50	
Toluene-d8	101	87 - 121	11/02/22 11:50	
Dibromofluoromethane	101	80 - 116	11/02/22 11:50	

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Analyzed: 10/30/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213544-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	20.9	20.0	104	40-161
Benzene	8260C	19.9	20.0	100	79-119
Bromodichloromethane	8260C	18.5	20.0	93	81-123
Bromoform	8260C	17.9	20.0	90	65-146
Bromomethane	8260C	15.0	20.0	75	42-166
2-Butanone (MEK)	8260C	19.3	20.0	97	61-137
Carbon Disulfide	8260C	16.9	20.0	85	66-128
Carbon Tetrachloride	8260C	19.8	20.0	99	70-127
Chlorobenzene	8260C	18.8	20.0	94	80-121
Chloroethane	8260C	16.8	20.0	84	62-131
Chloroform	8260C	19.6	20.0	98	79-120
Chloromethane	8260C	24.6	20.0	123	65-135
Dibromochloromethane	8260C	19.0	20.0	95	72-128
1,1-Dichloroethane	8260C	19.5	20.0	98	80-124
1,2-Dibromoethane	8260C	19.9	20.0	100	82-127
1,2-Dichloroethane	8260C	20.6	20.0	103	71-127
1,1-Dichloroethene	8260C	19.8	20.0	99	71-118
cis-1,2-Dichloroethene	8260C	19.3	20.0	97	80-121
trans-1,2-Dichloroethene	8260C	19.7	20.0	99	73-118
1,2-Dichloropropane	8260C	19.1	20.0	95	80-119
cis-1,3-Dichloropropene	8260C	18.5	20.0	93	77-122
trans-1,3-Dichloropropene	8260C	19.0	20.0	95	71-133
Ethylbenzene	8260C	20.2	20.0	101	76-120
2-Hexanone	8260C	19.8	20.0	99	63-124
Methylene Chloride	8260C	18.0	20.0	90	73-122
4-Methyl-2-pentanone (MIBK)	8260C	20.2	20.0	101	66-124
Styrene	8260C	20.5	20.0	103	80-124
1,1,2,2-Tetrachloroethane	8260C	20.6	20.0	103	78-126
Tetrachloroethene	8260C	20.7	20.0	104	72-125
Toluene	8260C	20.0	20.0	100	79-119
1,1,1-Trichloroethane	8260C	19.7	20.0	99	75-125
1,1,2-Trichloroethane	8260C	20.1	20.0	101	82-121
Trichloroethene	8260C	19.8	20.0	99	74-122

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Analyzed: 10/30/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213544-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260C	16.5	20.0	83	74-159
o-Xylene	8260C	19.9	20.0	99	79-123
m,p-Xylenes	8260C	40.4	40.0	101	80-126

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Analyzed: 11/02/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213696-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	19.0	20.0	95	40-161
Benzene	8260C	21.6	20.0	108	79-119
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	17.2	20.0	86	65-146
Bromomethane	8260C	19.5	20.0	97	42-166
2-Butanone (MEK)	8260C	18.2	20.0	91	61-137
Carbon Disulfide	8260C	18.6	20.0	93	66-128
Carbon Tetrachloride	8260C	20.8	20.0	104	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	19.5	20.0	97	62-131
Chloroform	8260C	21.7	20.0	109	79-120
Chloromethane	8260C	24.4	20.0	122	65-135
Dibromochloromethane	8260C	19.7	20.0	98	72-128
1,1-Dichloroethane	8260C	22.6	20.0	113	80-124
1,2-Dibromoethane	8260C	20.4	20.0	102	82-127
1,2-Dichloroethane	8260C	21.3	20.0	106	71-127
1,1-Dichloroethene	8260C	22.3	20.0	112	71-118
cis-1,2-Dichloroethene	8260C	21.8	20.0	109	80-121
trans-1,2-Dichloroethene	8260C	21.7	20.0	108	73-118
1,2-Dichloropropane	8260C	20.8	20.0	104	80-119
cis-1,3-Dichloropropene	8260C	21.2	20.0	106	77-122
trans-1,3-Dichloropropene	8260C	21.0	20.0	105	71-133
Ethylbenzene	8260C	21.2	20.0	106	76-120
2-Hexanone	8260C	18.1	20.0	90	63-124
Methylene Chloride	8260C	21.1	20.0	105	73-122
4-Methyl-2-pentanone (MIBK)	8260C	18.9	20.0	95	66-124
Styrene	8260C	22.6	20.0	113	80-124
1,1,2,2-Tetrachloroethane	8260C	18.8	20.0	94	78-126
Tetrachloroethene	8260C	22.1	20.0	110	72-125
Toluene	8260C	21.9	20.0	109	79-119
1,1,1-Trichloroethane	8260C	21.0	20.0	105	75-125
1,1,2-Trichloroethane	8260C	21.0	20.0	105	82-121
Trichloroethene	8260C	21.9	20.0	110	74-122

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Analyzed: 11/02/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213696-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260C	18.1	20.0	90	74-159
o-Xylene	8260C	21.6	20.0	108	79-123
m,p-Xylenes	8260C	43.8	40.0	109	80-126



Metals

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water
Sample Name: Method Blank
Lab Code: R2210211-MB1

Service Request: R2210211
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 14:45	11/04/22	
Barium, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 14:45	11/04/22	
Cadmium, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 14:45	11/04/22	
Calcium, Total	200.7	1000 U	ug/L	1000	1	11/03/22 19:38	11/02/22	
Chromium, Total	200.7	10 U	ug/L	10	1	11/03/22 19:38	11/02/22	
Copper, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 14:45	11/04/22	
Iron, Total	200.7	100 U	ug/L	100	1	11/03/22 19:38	11/02/22	
Lead, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 14:45	11/04/22	
Magnesium, Total	200.7	1000 U	ug/L	1000	1	11/03/22 19:38	11/02/22	
Manganese, Total	200.7	10 U	ug/L	10	1	11/03/22 19:38	11/02/22	
Nickel, Total	200.8	1.0 U	ug/L	1.0	1	11/07/22 14:45	11/04/22	
Potassium, Total	200.7	2000 U	ug/L	2000	1	11/03/22 19:38	11/02/22	
Selenium, Total	200.8	2.0 U	ug/L	2.0	1	11/07/22 14:45	11/04/22	
Sodium, Total	200.7	1000 U	ug/L	1000	1	11/07/22 16:41	11/02/22	
Zinc, Total	200.7	20 U	ug/L	20	1	11/03/22 19:38	11/02/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2210211-MB1

Service Request: R2210211
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/01/22 23:53	10/30/22	
Barium, Total	6010C	20 U	ug/L	20	1	11/01/22 23:53	10/30/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/01/22 23:53	10/30/22	
Calcium, Total	6010C	1000 U	ug/L	1000	1	11/01/22 23:53	10/30/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/01/22 23:53	10/30/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/01/22 23:53	10/30/22	
Iron, Total	6010C	100 U	ug/L	100	1	11/02/22 01:47	10/30/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/01/22 23:53	10/30/22	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	11/01/22 23:53	10/30/22	
Manganese, Total	6010C	10 U	ug/L	10	1	11/01/22 23:53	10/30/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/01/22 23:53	10/30/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/01/22 23:53	10/30/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/01/22 23:53	10/30/22	
Sodium, Total	6010C	1000 U	ug/L	1000	1	11/02/22 01:47	10/30/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/01/22 23:53	10/30/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2210211-MB2

Service Request: R2210211
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/02/22 01:47	10/30/22	
Barium, Total	6010C	20 U	ug/L	20	1	11/02/22 01:47	10/30/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 01:47	10/30/22	
Calcium, Total	6010C	1000 U	ug/L	1000	1	11/02/22 01:47	10/30/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/02/22 01:47	10/30/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/02/22 01:47	10/30/22	
Iron, Total	6010C	100 U	ug/L	100	1	11/04/22 17:50	10/30/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/02/22 01:47	10/30/22	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	11/02/22 01:47	10/30/22	
Manganese, Total	6010C	10 U	ug/L	10	1	11/02/22 01:47	10/30/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/02/22 01:47	10/30/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/02/22 01:47	10/30/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/02/22 01:47	10/30/22	
Sodium, Total	6010C	1000 U	ug/L	1000	1	11/04/22 17:50	10/30/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/02/22 01:47	10/30/22	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210211
Date Analyzed: 11/01/22 - 11/07/22

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2210211-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	200.8	22.4	20.0	112	85-115
Arsenic, Total	6010C	41.4	40	104	80-120
Barium, Total	200.8	20.4	20.0	102	85-115
Barium, Total	6010C	2070	2000	103	80-120
Cadmium, Total	200.8	20.5	20.0	102	85-115
Cadmium, Total	6010C	51.9	50.0	104	80-120
Calcium, Total	200.7	2000	2000	102	85-115
Calcium, Total	6010C	2010	2000	101	80-120
Chromium, Total	200.7	205	200	103	85-115
Chromium, Total	6010C	207	200	103	80-120
Copper, Total	200.8	21.6	20.0	108	85-115
Copper, Total	6010C	246	250	98	80-120
Iron, Total	200.7	1000	1000	100	85-115
Iron, Total	6010C	1000	1000	100	80-120
Lead, Total	200.8	21.9	20.0	110	85-115
Lead, Total	6010C	526	500	105	80-120
Magnesium, Total	200.7	1980	2000	99	85-115
Magnesium, Total	6010C	2000	2000	100	80-120
Manganese, Total	200.7	502	500	100	85-115
Manganese, Total	6010C	503	500	101	80-120
Nickel, Total	200.8	20.9	20.0	104	85-115
Nickel, Total	6010C	519	500	104	80-120
Potassium, Total	200.7	18100	20000	91	85-115
Potassium, Total	6010C	18600	20000	93	80-120
Selenium, Total	200.8	22.0	20.0	110	85-115
Selenium, Total	6010C	1020	1010	101	80-120
Sodium, Total	200.7	20200	20000	101	85-115
Sodium, Total	6010C	20300	20000	101	80-120
Zinc, Total	200.7	512	500	102	85-115
Zinc, Total	6010C	505	500	101	80-120

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Analyzed: 11/02/22 - 11/04/22

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2210211-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	40	40	99	80-120
Barium, Total	6010C	2050	2000	102	80-120
Cadmium, Total	6010C	51.8	50.0	104	80-120
Calcium, Total	6010C	2000	2000	100	80-120
Chromium, Total	6010C	205	200	103	80-120
Copper, Total	6010C	244	250	97	80-120
Iron, Total	6010C	1050	1000	105	80-120
Lead, Total	6010C	524	500	105	80-120
Magnesium, Total	6010C	2000	2000	99	80-120
Manganese, Total	6010C	498	500	100	80-120
Nickel, Total	6010C	513	500	103	80-120
Potassium, Total	6010C	18500	20000	93	80-120
Selenium, Total	6010C	1010	1010	100	80-120
Sodium, Total	6010C	19600	20000	98	80-120
Zinc, Total	6010C	500	500	100	80-120



General Chemistry

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2210211-MB

Service Request: R2210211
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	10/25/22 15:55	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	10 U	mg/L	10	1	10/28/22 09:45	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210211
Date Analyzed: 10/25/22 - 10/28/22

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2210211-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	300.0	1.02	1.00	102	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-2015	910	914	100	90-110



November 10, 2022

Service Request No:R2210165

Mr. Jon Brandes
On-Site Technical Services, Inc.
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: WAL - Semi-Annual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory October 21, 2022
For your reference, these analyses have been assigned our service request number **R2210165**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS

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PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

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Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water, Drinking Water

Service Request: R2210165
Date Received: 10/21/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty water, drinking water samples were received for analysis at ALS Environmental on 10/21/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Semivolatiles by GC/MS:

Method 8270D SIM, 10/26/2022: The Method Blank contained a low level of one or more analytes at concentrations above the Method Reporting Limit (MRL), but less than one tenth the concentration in the associated samples. Contamination is deemed insignificant relative to the reported samples and the data is reported with no further corrective action required.

Method 8270D SIM, 10/26/2022: The Method Blank contained a low level of the following analytes above the Reporting Limit: 1,4-dioxane. All associated sample results less than ten times the level found in the Method Blank are flagged. The samples were flagged for re-extraction to occur past hold time.

Method 8270D SIM, 10/27/2022: The Method Blank contained a low level of the following analytes above the Reporting Limit: list analytes. All associated sample results less than ten times the level found in the Method Blank are flagged. The samples were not reprepared/reanalyzed because insufficient sample remained for additional testing.

Method 8270D SIM: The extraction of one or more sample(s) was initially performed within holding time, but were re-extracted due to a QC failure. Efforts were made to re-extract the samples as soon as possible. The re-extraction was performed past the recommended holding time. The data are flagged to indicate the holding time exceedance.

Metals:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 524.2, 10/26/2022: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. The analytes affected are flagged in the LCS Summary.

Method 8260C, 10/30/2022: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. The analytes affected are flagged in the LCS Summary.

Method 8260C, 11/02/2022: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Approved by _____

Date 11/10/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: CW3B-1022	Lab ID: R2210165-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.85		0.027	0.040	ug/L	8270D SIM
Barium, Total	39			20	ug/L	6010C
Calcium, Total	69600			1000	ug/L	6010C
cis-1,2-Dichloroethene	77			5.0	ug/L	8260C
Iron, Total	100			100	ug/L	6010C
Magnesium, Total	35400			1000	ug/L	6010C
Manganese, Total	41			10	ug/L	6010C
Potassium, Total	2600			2000	ug/L	6010C
Sodium, Total	21900			1000	ug/L	6010C
Trichloroethene	360			5.0	ug/L	8260C

CLIENT ID: CW4B-1022	Lab ID: R2210165-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.34		0.027	0.040	ug/L	8270D SIM
Barium, Total	30			20	ug/L	6010C
Calcium, Total	39700			1000	ug/L	6010C
Magnesium, Total	17000			1000	ug/L	6010C
Manganese, Total	33			10	ug/L	6010C
Sodium, Total	14700			1000	ug/L	6010C

CLIENT ID: MW17S-1022	Lab ID: R2210165-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.30	B	0.027	0.040	ug/L	8270D SIM
1,4-Dioxane	0.32	B	0.027	0.040	ug/L	8270D SIM
Barium, Total	40			20	ug/L	6010C
Calcium, Total	76300			1000	ug/L	6010C
cis-1,2-Dichloroethene	20			1.0	ug/L	8260C
Iron, Total	180			100	ug/L	6010C
Magnesium, Total	49800			1000	ug/L	6010C
Manganese, Total	47			10	ug/L	6010C
Potassium, Total	3600			2000	ug/L	6010C
Sodium, Total	62700			1000	ug/L	6010C
Trichloroethene	8.1			1.0	ug/L	8260C

CLIENT ID: DUP1-1022	Lab ID: R2210165-004
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.30	B	0.027	0.040	ug/L	8270D SIM
1,4-Dioxane	0.30	B	0.027	0.040	ug/L	8270D SIM
Barium, Total	39			20	ug/L	6010C
Calcium, Total	76800			1000	ug/L	6010C
cis-1,2-Dichloroethene	20			1.0	ug/L	8260C
Iron, Total	210			100	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DUP1-1022	Lab ID: R2210165-004
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Analyte	Results	Flag	MDL	MRL	Units	Method
Magnesium, Total	50200			1000	ug/L	6010C
Manganese, Total	50			10	ug/L	6010C
Potassium, Total	3600			2000	ug/L	6010C
Sodium, Total	62700			1000	ug/L	6010C
Trichloroethene	8.4			1.0	ug/L	8260C

CLIENT ID: CW4A-1022	Lab ID: R2210165-006
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.35		0.027	0.040	ug/L	8270D SIM
Barium, Total	56			20	ug/L	6010C
Calcium, Total	29100			1000	ug/L	6010C
Iron, Total	280			100	ug/L	6010C
Magnesium, Total	16200			1000	ug/L	6010C
Manganese, Total	293			10	ug/L	6010C
Sodium, Total	13600			1000	ug/L	6010C

CLIENT ID: MW5D-1022	Lab ID: R2210165-007
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.18	B	0.027	0.040	ug/L	8270D SIM
1,4-Dioxane	0.20	B	0.027	0.040	ug/L	8270D SIM
Barium, Total	30			20	ug/L	6010C
Calcium, Total	15100			1000	ug/L	6010C
cis-1,2-Dichloroethene	83			1.0	ug/L	8260C
Iron, Total	1030			100	ug/L	6010C
Magnesium, Total	9500			1000	ug/L	6010C
Manganese, Total	414			10	ug/L	6010C
Sodium, Total	6300			1000	ug/L	6010C
Trichloroethene	14			1.0	ug/L	8260C
Vinyl Chloride	4.7			1.0	ug/L	8260C

CLIENT ID: MW3D-1022	Lab ID: R2210165-010
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	65			20	ug/L	6010C
Calcium, Total	44900			1000	ug/L	6010C
cis-1,2-Dichloroethene	1.9			1.0	ug/L	8260C
Iron, Total	370			100	ug/L	6010C
Magnesium, Total	6500			1000	ug/L	6010C
Methylene Chloride	1.1			1.0	ug/L	8260C
Potassium, Total	4600			2000	ug/L	6010C
Sodium, Total	19000			1000	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: CW3A-1022 Lab ID: R2210165-014

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	98			20	ug/L	6010C
Calcium, Total	123000			1000	ug/L	6010C
cis-1,2-Dichloroethene	4.8			1.0	ug/L	8260C
Iron, Total	510			100	ug/L	6010C
Manganese, Total	10			10	ug/L	6010C
Potassium, Total	12400			2000	ug/L	6010C
Sodium, Total	36400			1000	ug/L	6010C
Trichloroethene	26			1.0	ug/L	8260C

CLIENT ID: MW11S-1022 Lab ID: R2210165-015

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	26			20	ug/L	6010C
Calcium, Total	57000			1000	ug/L	6010C
cis-1,2-Dichloroethene	230			20	ug/L	8260C
Iron, Total	150			100	ug/L	6010C
Magnesium, Total	35100			1000	ug/L	6010C
Manganese, Total	814			10	ug/L	6010C
Sodium, Total	20700			1000	ug/L	6010C
Trichloroethene	2700			20	ug/L	8260C

CLIENT ID: MW18S-1022 Lab ID: R2210165-016

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	51			20	ug/L	6010C
Calcium, Total	34000			1000	ug/L	6010C
Iron, Total	640			100	ug/L	6010C
Magnesium, Total	15300			1000	ug/L	6010C
Manganese, Total	156			10	ug/L	6010C
Potassium, Total	2200			2000	ug/L	6010C
Sodium, Total	4800			1000	ug/L	6010C
Trichloroethene	21			1.0	ug/L	8260C
Zinc, Total	26			20	ug/L	6010C

CLIENT ID: MW18D-1022 Lab ID: R2210165-017

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	66			20	ug/L	6010C
Calcium, Total	39400			1000	ug/L	6010C
Iron, Total	4790			100	ug/L	6010C
Magnesium, Total	18200			1000	ug/L	6010C
Manganese, Total	495			10	ug/L	6010C
Potassium, Total	2800			2000	ug/L	6010C
Sodium, Total	20900			1000	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: LS1-1022	Lab ID: R2210165-018
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Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	94			20	ug/L	6010C
Calcium, Total	119000			1000	ug/L	6010C
cis-1,2-Dichloroethene	2.6			1.0	ug/L	8260C
Iron, Total	730			100	ug/L	6010C
Magnesium, Total	32900			1000	ug/L	6010C
Manganese, Total	816			10	ug/L	6010C
Potassium, Total	4700			2000	ug/L	6010C
Sodium, Total	30300			1000	ug/L	6010C

CLIENT ID: MW5S-1022	Lab ID: R2210165-008
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	13500			1000	ug/L	6010C
cis-1,2-Dichloroethene	170			1.0	ug/L	8260C
Iron, Total	200			100	ug/L	6010C
Magnesium, Total	9800			1000	ug/L	6010C
Manganese, Total	76			10	ug/L	6010C
Sodium, Total	6300			1000	ug/L	6010C
Trichloroethene	31			1.0	ug/L	8260C
Vinyl Chloride	11			1.0	ug/L	8260C

CLIENT ID: MW4D-1022	Lab ID: R2210165-009
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	20200			1000	ug/L	6010C
cis-1,2-Dichloroethene	160			1.0	ug/L	8260C
Iron, Total	520			100	ug/L	6010C
Magnesium, Total	18100			1000	ug/L	6010C
Manganese, Total	1610			10	ug/L	6010C
Potassium, Total	2400			2000	ug/L	6010C
Sodium, Total	5700			1000	ug/L	6010C
trans-1,2-Dichloroethene	1.0			1.0	ug/L	8260C
Trichloroethene	2.7			1.0	ug/L	8260C
Vinyl Chloride	77			1.0	ug/L	8260C
Zinc, Total	21			20	ug/L	6010C

CLIENT ID: WAL19Pre-1022	Lab ID: R2210165-013
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Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	1.6			0.50	ug/L	524.2
Trichloroethene	2.6			0.50	ug/L	524.2



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request:R2210165

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2210165-001	CW3B-1022	10/18/2022	1005
R2210165-002	CW4B-1022	10/18/2022	1255
R2210165-003	MW17S-1022	10/18/2022	1455
R2210165-004	DUP1-1022	10/18/2022	1505
R2210165-005	FB1-1022	10/18/2022	1505
R2210165-006	CW4A-1022	10/19/2022	0920
R2210165-007	MW5D-1022	10/19/2022	1050
R2210165-008	MW5S-1022	10/19/2022	1215
R2210165-009	MW4D-1022	10/19/2022	1400
R2210165-010	MW3D-1022	10/20/2022	0910
R2210165-011	WAL19Post-1022	10/20/2022	1010
R2210165-012	WAL19Inter-1022	10/20/2022	1015
R2210165-013	WAL19Pre-1022	10/20/2022	1020
R2210165-014	CW3A-1022	10/20/2022	1035
R2210165-015	MW11S-1022	10/20/2022	1200
R2210165-016	MW18S-1022	10/20/2022	1330
R2210165-017	MW18D-1022	10/20/2022	1510
R2210165-018	LS1-1022	10/20/2022	1545
R2210165-019	EB1-1022	10/21/2022	0815
R2210165-020	Trip Blank	10/21/2022	0815



ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: **On-Site**
72 Railroad Ave.
Wellsville, NY 14895
Project Manager: **Jon Brandes**

CHAIN of CUSTODY

Project: **WAL - Semiannual Sampling**
Telephone No. 585-593-1824
Email: jonb@on-sitehs.com

Page ___ of ___
Method of Shipment

Special Detection Limit/Reporting

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	VOA's 8260 (HCl)	VOA's 524.2 (C6H8O6)	T-Metals (HNO3)	TDS, NO3, Br, Cl, SO4 (NP) (SW/SED)	NH3, TKN, COD (H2SO4) (SW/SED)	Total Color (NP) (SW/SED)	BOD (NP) (SW/SED)	Alkalinity (NP) (SW/SED)	TOC, Phenols (H2SO4) (SW/SED)	TDS, NO3 (NP) (Manhole)	PFAS (NP)	1,4 Dioxane (NP)
			Soil	Water	Air	Other	Yes	No														
CW3B-1022	8	8	X				X	X	10-18-22	1005	X	X								X	X	
CW4B-1022	8	8	X				X	X	10-18-22	1255	X	X								X	X	
MW17S-1022	8	8	X				X	X	10-18-22	1455	X	X								X	X	
Dup1-1022	8	8	X				X	X	10-18-22	1505	X	X								X	X	
FBI-1022	1	1	X					X	10-18-22	1505										X		
CW4A-1022	8	8	X				X	X	10-19-22	0920	X	X								X	X	
MW5D-1022	6	6	X				X	X	10-19-22	1050	X	X									X	
MW5S-1022	4	4	X				X	X	10-19-22	1215	X	X										
MW4D-1022	4	4	X				X	X	10-19-22	1400	X	X										
MW3D-1022	4	4	X				X	X	10-20-22	0910	X	X										
WAL19 Post-1022	3	3	X				X		10-20-22	1010		X										
WAL19 Inter-1022	3	3	X				X		10-20-22	1015		X										
WAL19 Pre-1022	3	3	X				X		10-20-22	1020		X										

REMARKS

Sample Received Intact: Yes No Temperature received: Ice No ice

Relinquished by: <i>Kevin Dye / Kevin Dye</i>	Date: 10/21/22 Time: 0900	Received by: <i>Jonathon Brandes / Jonathon Brandes</i>	Lab Work No.
Relinquished by: <i>Jonathon Brandes</i>	Date: 10/21/22 Time: 1220	Received by:	
Relinquished by:	Date: Time:	Received by:	
Relinquished by:	Date: Time:	Received by: Laboratory	

Date: 10/21/22 Time: 12:20

R2210165 5
On-Site Technical Services, Inc.
WAL - Semi-Annual Sampling



ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: **On-Site**
72 Railroad Ave.
Wellsville, NY 14895
Project Manager: **Jon Brandes**

CHAIN of CUSTODY

Project: **WAL - Semiannual Sampling**
Telephone No. 585-593-1824
Email: jonb@on-sitehs.com

Page 1 of 4
Method of Shipment
Special Detection Limit/Reporting

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	VOA's 8260 (HCl)	VOA's 524.2 (C6H8O6)	T-Metals (HNO3)	TDS, NO3, Br, Cl, SO4 (NP) (SW/SED)	NH3, TKN, COD (H2SO4) (SW/SED)	Total Color (NP) (SW/SED)	BOD (NP) (SW/SED)	Alkalinity (NP) (SW/SED)	TOC, Phenols (H2SO4) (SW/SED)	TDS, NO3 (NP) (Manhole)
			Soil	Water	Air	Other	Yes	No												
CW3A-1022		5	X				X	10-20-22	1035	X		X								
MW11S-1022		8	X				X	10-20-22	1200	X		X								
MW18S-1022		4	X				X	10-20-22	1330	X		X								
MW18D-1022		4	X				X	10-20-22	1510	X		X								
LS1-1022		4	X				X	10-20-22	1545	X		X								
EB1-1022		4	X				X	10-21-22	0815	X		X								
Trip Blank		3	X				X	10-21-22	0815	X										

REMARKS

Sample Received Intact: Yes No Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name) <i>Kevin Dye / Kevin Dye</i>	Date Time 10/21/22 0900	Received by (Sign & Print Name) <i>Jon Brandes</i>	Lab Work No.
Relinquished by <i>Jon Brandes</i>	Date Time 10/21/22 1220	Received by	
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by Laboratory <i>WAL</i>	Date Time 10/21/22 12:20

R2210165 **5**
On-Site Technical Services, Inc.
WAL - Semi-Annual Sampling



Cooler Receipt and Preservation Check I

R2210165

5

On-Site Technical Services, Inc.
WAL - Semi-Annual Sampling



Project/Client ON-site Folder Number _____

Cooler received on 10/21/22 by: AL

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> <u>N</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> <u>N</u>
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> <u>N</u>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> <u>N</u>

5a	Perchlorate samples have required headspace?	<u>Y</u> <u>N</u> <u>NA</u>
5b	Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u> <u>N</u> <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> <u>CLIENT</u>
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 10/21/22 Time: 1225 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.5</u>	<u>14.9</u>	<u>5.6</u>					
Within 0-6°C?	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>
If <0°C, were samples frozen?	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 2-002 by AL on 10/21/22 at 1233
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/20/22 Time: 0800 by: JE

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized _____ Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<u>2</u>	<u>206722</u>	HNO ₃	<u>X</u>		<u>1121081</u>	<u>06/23</u>				
<u>2</u>		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>22080153</u>	<u>06/25</u>				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 220614, 091222-3AXH, 080822-2ADD, 082222-1GJ
Explain all Discrepancies/ Other Comments:

HCl lot for 524 VOA: 052322-3ACI exp: 06/25

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: JE
PC Secondary Review: JWS 10/24/22 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
524.2	Drinking Water	m,p-Xylenes
524.2	Drinking Water	o-Xylene

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2210165

Sample Name: CW3B-1022
Lab Code: R2210165-001
Sample Matrix: Water

Date Collected: 10/18/22
Date Received: 10/21/22

Analysis Method

6010C
8260C
8270D SIM
PFC/537M

Extracted/Digested By

CDISTEFANO

MMCMAHON
AMOORE

Analyzed By

NMANSEN
KRUEST
MMCMAHON
CCONOVER

Sample Name: CW4B-1022
Lab Code: R2210165-002
Sample Matrix: Water

Date Collected: 10/18/22
Date Received: 10/21/22

Analysis Method

6010C
8260C
8270D SIM
PFC/537M

Extracted/Digested By

CDISTEFANO

MMCMAHON
AMOORE

Analyzed By

NMANSEN
KRUEST
MMCMAHON
CCONOVER

Sample Name: MW17S-1022
Lab Code: R2210165-003
Sample Matrix: Water

Date Collected: 10/18/22
Date Received: 10/21/22

Analysis Method

6010C
8260C
8270D SIM
PFC/537M

Extracted/Digested By

CDISTEFANO

MMCMAHON
AMOORE

Analyzed By

NMANSEN
KRUEST
MMCMAHON
CCONOVER

Sample Name: MW17S-1022
Lab Code: R2210165-003.R01
Sample Matrix: Water

Date Collected: 10/18/22
Date Received: 10/21/22

Analysis Method

8270D SIM

Extracted/Digested By

MMCMAHON

Analyzed By

MMCMAHON

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dba ALS Environmental

Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2210165

Sample Name: DUP1-1022
Lab Code: R2210165-004
Sample Matrix: Water

Date Collected: 10/18/22
Date Received: 10/21/22

Analysis Method
6010C
8260C
8270D SIM
PFC/537M

Extracted/Digested By
CDISTEFANO

MMCMAHON
AMOORE

Analyzed By
NMANSEN
KRUEST
MMCMAHON
CCONOVER

Sample Name: DUP1-1022
Lab Code: R2210165-004.R01
Sample Matrix: Water

Date Collected: 10/18/22
Date Received: 10/21/22

Analysis Method
8270D SIM

Extracted/Digested By
MMCMAHON

Analyzed By
MMCMAHON

Sample Name: FB1-1022
Lab Code: R2210165-005
Sample Matrix: Water

Date Collected: 10/18/22
Date Received: 10/21/22

Analysis Method
PFC/537M

Extracted/Digested By
AMOORE

Analyzed By
CCONOVER

Sample Name: CW4A-1022
Lab Code: R2210165-006
Sample Matrix: Water

Date Collected: 10/19/22
Date Received: 10/21/22

Analysis Method
6010C
8260C
8270D SIM
PFC/537M

Extracted/Digested By
CDISTEFANO

MMCMAHON
AMOORE

Analyzed By
NMANSEN
KRUEST
MMCMAHON
CCONOVER

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Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2210165

Sample Name: MW5D-1022
Lab Code: R2210165-007
Sample Matrix: Water

Date Collected: 10/19/22
Date Received: 10/21/22

Analysis Method
6010C
8260C
8270D SIM

Extracted/Digested By
CDISTEFANO
MMCMAHON

Analyzed By
NMANSEN
FNAEGLER
MMCMAHON

Sample Name: MW5D-1022
Lab Code: R2210165-007.R01
Sample Matrix: Water

Date Collected: 10/19/22
Date Received: 10/21/22

Analysis Method
8270D SIM

Extracted/Digested By
MMCMAHON

Analyzed By
MMCMAHON

Sample Name: MW5S-1022
Lab Code: R2210165-008
Sample Matrix: Water

Date Collected: 10/19/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER

Sample Name: MW4D-1022
Lab Code: R2210165-009
Sample Matrix: Water

Date Collected: 10/19/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER

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Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2210165

Sample Name: MW3D-1022
Lab Code: R2210165-010
Sample Matrix: Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: WAL19Post-1022
Lab Code: R2210165-011
Sample Matrix: Drinking Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Inter-1022
Lab Code: R2210165-012
Sample Matrix: Drinking Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Pre-1022
Lab Code: R2210165-013
Sample Matrix: Drinking Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2210165

Sample Name: CW3A-1022
Lab Code: R2210165-014
Sample Matrix: Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: MW11S-1022
Lab Code: R2210165-015
Sample Matrix: Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: MW18S-1022
Lab Code: R2210165-016
Sample Matrix: Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: MW18D-1022
Lab Code: R2210165-017
Sample Matrix: Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

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Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2210165

Sample Name: LS1-1022
Lab Code: R2210165-018
Sample Matrix: Water

Date Collected: 10/20/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER

Sample Name: EB1-1022
Lab Code: R2210165-019
Sample Matrix: Water

Date Collected: 10/21/22
Date Received: 10/21/22

Analysis Method
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: Trip Blank
Lab Code: R2210165-020
Sample Matrix: Water

Date Collected: 10/21/22
Date Received: 10/21/22

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Collected: 10/20/22 10:10
Date Received: 10/21/22 12:20

Sample Name: WAL19Post-1022
Lab Code: R2210165-011

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	10/26/22 23:15	
Bromobenzene	0.50 U	0.50	1	10/26/22 23:15	
Bromochloromethane	0.50 U	0.50	1	10/26/22 23:15	
Bromodichloromethane	0.50 U	0.50	1	10/26/22 23:15	
Bromoform	0.50 U	0.50	1	10/26/22 23:15	
Bromomethane	0.50 U	0.50	1	10/26/22 23:15	
Methyl tert-Butyl Ether	0.50 U	0.50	1	10/26/22 23:15	
tert-Butylbenzene	0.50 U	0.50	1	10/26/22 23:15	
sec-Butylbenzene	0.50 U	0.50	1	10/26/22 23:15	
n-Butylbenzene	0.50 U	0.50	1	10/26/22 23:15	
Carbon Tetrachloride	0.50 U	0.50	1	10/26/22 23:15	
Chlorobenzene	0.50 U	0.50	1	10/26/22 23:15	
Chloroethane	0.50 U	0.50	1	10/26/22 23:15	
Chloroform	0.50 U	0.50	1	10/26/22 23:15	
Chloromethane	0.50 U	0.50	1	10/26/22 23:15	
2-Chlorotoluene	0.50 U	0.50	1	10/26/22 23:15	
4-Chlorotoluene	0.50 U	0.50	1	10/26/22 23:15	
Dibromochloromethane	0.50 U	0.50	1	10/26/22 23:15	
Dibromomethane	0.50 U	0.50	1	10/26/22 23:15	
1,2-Dichlorobenzene	0.50 U	0.50	1	10/26/22 23:15	
1,4-Dichlorobenzene	0.50 U	0.50	1	10/26/22 23:15	
1,3-Dichlorobenzene	0.50 U	0.50	1	10/26/22 23:15	
Dichlorodifluoromethane	0.50 U	0.50	1	10/26/22 23:15	
1,1-Dichloroethane	0.50 U	0.50	1	10/26/22 23:15	
1,2-Dichloroethane	0.50 U	0.50	1	10/26/22 23:15	
1,1-Dichloroethene	0.50 U	0.50	1	10/26/22 23:15	
trans-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 23:15	
cis-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 23:15	
2,2-Dichloropropane	0.50 U	0.50	1	10/26/22 23:15	
1,2-Dichloropropane	0.50 U	0.50	1	10/26/22 23:15	
1,3-Dichloropropane	0.50 U	0.50	1	10/26/22 23:15	
trans-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 23:15	
cis-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 23:15	
Ethylbenzene	0.50 U	0.50	1	10/26/22 23:15	
Hexachlorobutadiene	0.50 U	0.50	1	10/26/22 23:15	
Isopropylbenzene	0.50 U	0.50	1	10/26/22 23:15	
p-Isopropyltoluene	0.50 U	0.50	1	10/26/22 23:15	
Methylene Chloride	0.50 U	0.50	1	10/26/22 23:15	
Naphthalene	0.50 U	0.50	1	10/26/22 23:15	
n-Propylbenzene	0.50 U	0.50	1	10/26/22 23:15	
Styrene	0.50 U	0.50	1	10/26/22 23:15	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 23:15	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 23:15	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Collected: 10/20/22 10:10
Date Received: 10/21/22 12:20

Sample Name: WAL19Post-1022
Lab Code: R2210165-011

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	10/26/22 23:15	
Toluene	0.50 U	0.50	1	10/26/22 23:15	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	10/26/22 23:15	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	10/26/22 23:15	
1,1,2-Trichloroethane	0.50 U	0.50	1	10/26/22 23:15	
Trichloroethene	0.50 U	0.50	1	10/26/22 23:15	
Trichlorofluoromethane	0.50 U	0.50	1	10/26/22 23:15	
1,2,3-Trichloropropane	0.50 U	0.50	1	10/26/22 23:15	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	10/26/22 23:15	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	10/26/22 23:15	
Vinyl Chloride	0.50 U	0.50	1	10/26/22 23:15	
m,p-Xylenes	1.0 U	1.0	1	10/26/22 23:15	
o-Xylene	0.50 U	0.50	1	10/26/22 23:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	70 - 130	10/26/22 23:15	
1,2-Dichlorobenzene-d4	84	70 - 130	10/26/22 23:15	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Collected: 10/20/22 10:15
Date Received: 10/21/22 12:20

Sample Name: WAL19Inter-1022
Lab Code: R2210165-012

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	10/26/22 23:41	
Bromobenzene	0.50 U	0.50	1	10/26/22 23:41	
Bromochloromethane	0.50 U	0.50	1	10/26/22 23:41	
Bromodichloromethane	0.50 U	0.50	1	10/26/22 23:41	
Bromoform	0.50 U	0.50	1	10/26/22 23:41	
Bromomethane	0.50 U	0.50	1	10/26/22 23:41	
Methyl tert-Butyl Ether	0.50 U	0.50	1	10/26/22 23:41	
tert-Butylbenzene	0.50 U	0.50	1	10/26/22 23:41	
sec-Butylbenzene	0.50 U	0.50	1	10/26/22 23:41	
n-Butylbenzene	0.50 U	0.50	1	10/26/22 23:41	
Carbon Tetrachloride	0.50 U	0.50	1	10/26/22 23:41	
Chlorobenzene	0.50 U	0.50	1	10/26/22 23:41	
Chloroethane	0.50 U	0.50	1	10/26/22 23:41	
Chloroform	0.50 U	0.50	1	10/26/22 23:41	
Chloromethane	0.50 U	0.50	1	10/26/22 23:41	
2-Chlorotoluene	0.50 U	0.50	1	10/26/22 23:41	
4-Chlorotoluene	0.50 U	0.50	1	10/26/22 23:41	
Dibromochloromethane	0.50 U	0.50	1	10/26/22 23:41	
Dibromomethane	0.50 U	0.50	1	10/26/22 23:41	
1,2-Dichlorobenzene	0.50 U	0.50	1	10/26/22 23:41	
1,4-Dichlorobenzene	0.50 U	0.50	1	10/26/22 23:41	
1,3-Dichlorobenzene	0.50 U	0.50	1	10/26/22 23:41	
Dichlorodifluoromethane	0.50 U	0.50	1	10/26/22 23:41	
1,1-Dichloroethane	0.50 U	0.50	1	10/26/22 23:41	
1,2-Dichloroethane	0.50 U	0.50	1	10/26/22 23:41	
1,1-Dichloroethene	0.50 U	0.50	1	10/26/22 23:41	
trans-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 23:41	
cis-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 23:41	
2,2-Dichloropropane	0.50 U	0.50	1	10/26/22 23:41	
1,2-Dichloropropane	0.50 U	0.50	1	10/26/22 23:41	
1,3-Dichloropropane	0.50 U	0.50	1	10/26/22 23:41	
trans-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 23:41	
cis-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 23:41	
Ethylbenzene	0.50 U	0.50	1	10/26/22 23:41	
Hexachlorobutadiene	0.50 U	0.50	1	10/26/22 23:41	
Isopropylbenzene	0.50 U	0.50	1	10/26/22 23:41	
p-Isopropyltoluene	0.50 U	0.50	1	10/26/22 23:41	
Methylene Chloride	0.50 U	0.50	1	10/26/22 23:41	
Naphthalene	0.50 U	0.50	1	10/26/22 23:41	
n-Propylbenzene	0.50 U	0.50	1	10/26/22 23:41	
Styrene	0.50 U	0.50	1	10/26/22 23:41	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 23:41	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 23:41	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Collected: 10/20/22 10:15
Date Received: 10/21/22 12:20

Sample Name: WAL19Inter-1022
Lab Code: R2210165-012

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	10/26/22 23:41	
Toluene	0.50 U	0.50	1	10/26/22 23:41	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	10/26/22 23:41	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	10/26/22 23:41	
1,1,2-Trichloroethane	0.50 U	0.50	1	10/26/22 23:41	
Trichloroethene	0.50 U	0.50	1	10/26/22 23:41	
Trichlorofluoromethane	0.50 U	0.50	1	10/26/22 23:41	
1,2,3-Trichloropropane	0.50 U	0.50	1	10/26/22 23:41	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	10/26/22 23:41	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	10/26/22 23:41	
Vinyl Chloride	0.50 U	0.50	1	10/26/22 23:41	
m,p-Xylenes	1.0 U	1.0	1	10/26/22 23:41	
o-Xylene	0.50 U	0.50	1	10/26/22 23:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	70 - 130	10/26/22 23:41	
1,2-Dichlorobenzene-d4	85	70 - 130	10/26/22 23:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Collected: 10/20/22 10:20
Date Received: 10/21/22 12:20

Sample Name: WAL19Pre-1022
Lab Code: R2210165-013

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	10/27/22 00:06	
Bromobenzene	0.50 U	0.50	1	10/27/22 00:06	
Bromochloromethane	0.50 U	0.50	1	10/27/22 00:06	
Bromodichloromethane	0.50 U	0.50	1	10/27/22 00:06	
Bromoform	0.50 U	0.50	1	10/27/22 00:06	
Bromomethane	0.50 U	0.50	1	10/27/22 00:06	
Methyl tert-Butyl Ether	0.50 U	0.50	1	10/27/22 00:06	
tert-Butylbenzene	0.50 U	0.50	1	10/27/22 00:06	
sec-Butylbenzene	0.50 U	0.50	1	10/27/22 00:06	
n-Butylbenzene	0.50 U	0.50	1	10/27/22 00:06	
Carbon Tetrachloride	0.50 U	0.50	1	10/27/22 00:06	
Chlorobenzene	0.50 U	0.50	1	10/27/22 00:06	
Chloroethane	0.50 U	0.50	1	10/27/22 00:06	
Chloroform	0.50 U	0.50	1	10/27/22 00:06	
Chloromethane	0.50 U	0.50	1	10/27/22 00:06	
2-Chlorotoluene	0.50 U	0.50	1	10/27/22 00:06	
4-Chlorotoluene	0.50 U	0.50	1	10/27/22 00:06	
Dibromochloromethane	0.50 U	0.50	1	10/27/22 00:06	
Dibromomethane	0.50 U	0.50	1	10/27/22 00:06	
1,2-Dichlorobenzene	0.50 U	0.50	1	10/27/22 00:06	
1,4-Dichlorobenzene	0.50 U	0.50	1	10/27/22 00:06	
1,3-Dichlorobenzene	0.50 U	0.50	1	10/27/22 00:06	
Dichlorodifluoromethane	0.50 U	0.50	1	10/27/22 00:06	
1,1-Dichloroethane	0.50 U	0.50	1	10/27/22 00:06	
1,2-Dichloroethane	0.50 U	0.50	1	10/27/22 00:06	
1,1-Dichloroethene	0.50 U	0.50	1	10/27/22 00:06	
trans-1,2-Dichloroethene	0.50 U	0.50	1	10/27/22 00:06	
cis-1,2-Dichloroethene	1.6	0.50	1	10/27/22 00:06	
2,2-Dichloropropane	0.50 U	0.50	1	10/27/22 00:06	
1,2-Dichloropropane	0.50 U	0.50	1	10/27/22 00:06	
1,3-Dichloropropane	0.50 U	0.50	1	10/27/22 00:06	
trans-1,3-Dichloropropene	0.50 U	0.50	1	10/27/22 00:06	
cis-1,3-Dichloropropene	0.50 U	0.50	1	10/27/22 00:06	
Ethylbenzene	0.50 U	0.50	1	10/27/22 00:06	
Hexachlorobutadiene	0.50 U	0.50	1	10/27/22 00:06	
Isopropylbenzene	0.50 U	0.50	1	10/27/22 00:06	
p-Isopropyltoluene	0.50 U	0.50	1	10/27/22 00:06	
Methylene Chloride	0.50 U	0.50	1	10/27/22 00:06	
Naphthalene	0.50 U	0.50	1	10/27/22 00:06	
n-Propylbenzene	0.50 U	0.50	1	10/27/22 00:06	
Styrene	0.50 U	0.50	1	10/27/22 00:06	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	10/27/22 00:06	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	10/27/22 00:06	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Collected: 10/20/22 10:20
Date Received: 10/21/22 12:20

Sample Name: WAL19Pre-1022
Lab Code: R2210165-013

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	10/27/22 00:06	
Toluene	0.50 U	0.50	1	10/27/22 00:06	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	10/27/22 00:06	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	10/27/22 00:06	
1,1,2-Trichloroethane	0.50 U	0.50	1	10/27/22 00:06	
Trichloroethene	2.6	0.50	1	10/27/22 00:06	
Trichlorofluoromethane	0.50 U	0.50	1	10/27/22 00:06	
1,2,3-Trichloropropane	0.50 U	0.50	1	10/27/22 00:06	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	10/27/22 00:06	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	10/27/22 00:06	
Vinyl Chloride	0.50 U	0.50	1	10/27/22 00:06	
m,p-Xylenes	1.0 U	1.0	1	10/27/22 00:06	
o-Xylene	0.50 U	0.50	1	10/27/22 00:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	81	70 - 130	10/27/22 00:06	
1,2-Dichlorobenzene-d4	83	70 - 130	10/27/22 00:06	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 10:05
Date Received: 10/21/22 12:20

Sample Name: CW3B-1022
Lab Code: R2210165-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	25 U	25	5	10/30/22 07:21	
Benzene	5.0 U	5.0	5	10/30/22 07:21	
Bromodichloromethane	5.0 U	5.0	5	10/30/22 07:21	
Bromoform	5.0 U	5.0	5	10/30/22 07:21	
Bromomethane	5.0 U	5.0	5	10/30/22 07:21	
2-Butanone (MEK)	25 U	25	5	10/30/22 07:21	
Carbon Disulfide	5.0 U	5.0	5	10/30/22 07:21	
Carbon Tetrachloride	5.0 U	5.0	5	10/30/22 07:21	
Chlorobenzene	5.0 U	5.0	5	10/30/22 07:21	
Chloroethane	5.0 U	5.0	5	10/30/22 07:21	
Chloroform	5.0 U	5.0	5	10/30/22 07:21	
Chloromethane	5.0 U	5.0	5	10/30/22 07:21	
Dibromochloromethane	5.0 U	5.0	5	10/30/22 07:21	
1,2-Dibromoethane	5.0 U	5.0	5	10/30/22 07:21	
1,1-Dichloroethane	5.0 U	5.0	5	10/30/22 07:21	
1,2-Dichloroethane	5.0 U	5.0	5	10/30/22 07:21	
1,1-Dichloroethene	5.0 U	5.0	5	10/30/22 07:21	
cis-1,2-Dichloroethene	77	5.0	5	10/30/22 07:21	
trans-1,2-Dichloroethene	5.0 U	5.0	5	10/30/22 07:21	
1,2-Dichloropropane	5.0 U	5.0	5	10/30/22 07:21	
cis-1,3-Dichloropropene	5.0 U	5.0	5	10/30/22 07:21	
trans-1,3-Dichloropropene	5.0 U	5.0	5	10/30/22 07:21	
Ethylbenzene	5.0 U	5.0	5	10/30/22 07:21	
2-Hexanone	25 U	25	5	10/30/22 07:21	
Methylene Chloride	5.0 U	5.0	5	10/30/22 07:21	
4-Methyl-2-pentanone (MIBK)	25 U	25	5	10/30/22 07:21	
Styrene	5.0 U	5.0	5	10/30/22 07:21	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	5	10/30/22 07:21	
Tetrachloroethene	5.0 U	5.0	5	10/30/22 07:21	
Toluene	5.0 U	5.0	5	10/30/22 07:21	
1,1,1-Trichloroethane	5.0 U	5.0	5	10/30/22 07:21	
1,1,2-Trichloroethane	5.0 U	5.0	5	10/30/22 07:21	
Trichloroethene	360	5.0	5	10/30/22 07:21	
Vinyl Chloride	5.0 U	5.0	5	10/30/22 07:21	
o-Xylene	5.0 U	5.0	5	10/30/22 07:21	
m,p-Xylenes	10 U	10	5	10/30/22 07:21	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 10:05
Date Received: 10/21/22 12:20

Sample Name: CW3B-1022
Lab Code: R2210165-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/30/22 07:21	
Toluene-d8	99	87 - 121	10/30/22 07:21	
Dibromofluoromethane	98	80 - 116	10/30/22 07:21	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 12:55
Date Received: 10/21/22 12:20

Sample Name: CW4B-1022
Lab Code: R2210165-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 02:57	
Benzene	1.0 U	1.0	1	10/30/22 02:57	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 02:57	
Bromoform	1.0 U	1.0	1	10/30/22 02:57	
Bromomethane	1.0 U	1.0	1	10/30/22 02:57	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 02:57	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 02:57	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 02:57	
Chlorobenzene	1.0 U	1.0	1	10/30/22 02:57	
Chloroethane	1.0 U	1.0	1	10/30/22 02:57	
Chloroform	1.0 U	1.0	1	10/30/22 02:57	
Chloromethane	1.0 U	1.0	1	10/30/22 02:57	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 02:57	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 02:57	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 02:57	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 02:57	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 02:57	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 02:57	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 02:57	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 02:57	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 02:57	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 02:57	
Ethylbenzene	1.0 U	1.0	1	10/30/22 02:57	
2-Hexanone	5.0 U	5.0	1	10/30/22 02:57	
Methylene Chloride	1.0 U	1.0	1	10/30/22 02:57	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 02:57	
Styrene	1.0 U	1.0	1	10/30/22 02:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 02:57	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 02:57	
Toluene	1.0 U	1.0	1	10/30/22 02:57	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 02:57	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 02:57	
Trichloroethene	1.0 U	1.0	1	10/30/22 02:57	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 02:57	
o-Xylene	1.0 U	1.0	1	10/30/22 02:57	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 02:57	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 12:55
Date Received: 10/21/22 12:20

Sample Name: CW4B-1022
Lab Code: R2210165-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	10/30/22 02:57	
Toluene-d8	97	87 - 121	10/30/22 02:57	
Dibromofluoromethane	97	80 - 116	10/30/22 02:57	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 14:55
Date Received: 10/21/22 12:20

Sample Name: MW17S-1022
Lab Code: R2210165-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 03:19	
Benzene	1.0 U	1.0	1	10/30/22 03:19	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 03:19	
Bromoform	1.0 U	1.0	1	10/30/22 03:19	
Bromomethane	1.0 U	1.0	1	10/30/22 03:19	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 03:19	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 03:19	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 03:19	
Chlorobenzene	1.0 U	1.0	1	10/30/22 03:19	
Chloroethane	1.0 U	1.0	1	10/30/22 03:19	
Chloroform	1.0 U	1.0	1	10/30/22 03:19	
Chloromethane	1.0 U	1.0	1	10/30/22 03:19	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 03:19	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 03:19	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 03:19	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 03:19	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 03:19	
cis-1,2-Dichloroethene	20	1.0	1	10/30/22 03:19	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 03:19	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 03:19	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 03:19	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 03:19	
Ethylbenzene	1.0 U	1.0	1	10/30/22 03:19	
2-Hexanone	5.0 U	5.0	1	10/30/22 03:19	
Methylene Chloride	1.0 U	1.0	1	10/30/22 03:19	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 03:19	
Styrene	1.0 U	1.0	1	10/30/22 03:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 03:19	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 03:19	
Toluene	1.0 U	1.0	1	10/30/22 03:19	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 03:19	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 03:19	
Trichloroethene	8.1	1.0	1	10/30/22 03:19	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 03:19	
o-Xylene	1.0 U	1.0	1	10/30/22 03:19	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 03:19	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 14:55
Date Received: 10/21/22 12:20

Sample Name: MW17S-1022
Lab Code: R2210165-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	10/30/22 03:19	
Toluene-d8	96	87 - 121	10/30/22 03:19	
Dibromofluoromethane	97	80 - 116	10/30/22 03:19	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: DUP1-1022
Lab Code: R2210165-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 03:41	
Benzene	1.0 U	1.0	1	10/30/22 03:41	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 03:41	
Bromoform	1.0 U	1.0	1	10/30/22 03:41	
Bromomethane	1.0 U	1.0	1	10/30/22 03:41	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 03:41	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 03:41	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 03:41	
Chlorobenzene	1.0 U	1.0	1	10/30/22 03:41	
Chloroethane	1.0 U	1.0	1	10/30/22 03:41	
Chloroform	1.0 U	1.0	1	10/30/22 03:41	
Chloromethane	1.0 U	1.0	1	10/30/22 03:41	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 03:41	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 03:41	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 03:41	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 03:41	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 03:41	
cis-1,2-Dichloroethene	20	1.0	1	10/30/22 03:41	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 03:41	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 03:41	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 03:41	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 03:41	
Ethylbenzene	1.0 U	1.0	1	10/30/22 03:41	
2-Hexanone	5.0 U	5.0	1	10/30/22 03:41	
Methylene Chloride	1.0 U	1.0	1	10/30/22 03:41	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 03:41	
Styrene	1.0 U	1.0	1	10/30/22 03:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 03:41	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 03:41	
Toluene	1.0 U	1.0	1	10/30/22 03:41	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 03:41	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 03:41	
Trichloroethene	8.4	1.0	1	10/30/22 03:41	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 03:41	
o-Xylene	1.0 U	1.0	1	10/30/22 03:41	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 03:41	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: DUP1-1022
Lab Code: R2210165-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	10/30/22 03:41	
Toluene-d8	99	87 - 121	10/30/22 03:41	
Dibromofluoromethane	100	80 - 116	10/30/22 03:41	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 09:20
Date Received: 10/21/22 12:20

Sample Name: CW4A-1022
Lab Code: R2210165-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 04:03	
Benzene	1.0 U	1.0	1	10/30/22 04:03	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 04:03	
Bromoform	1.0 U	1.0	1	10/30/22 04:03	
Bromomethane	1.0 U	1.0	1	10/30/22 04:03	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 04:03	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 04:03	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 04:03	
Chlorobenzene	1.0 U	1.0	1	10/30/22 04:03	
Chloroethane	1.0 U	1.0	1	10/30/22 04:03	
Chloroform	1.0 U	1.0	1	10/30/22 04:03	
Chloromethane	1.0 U	1.0	1	10/30/22 04:03	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 04:03	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 04:03	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 04:03	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 04:03	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 04:03	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 04:03	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 04:03	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 04:03	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 04:03	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 04:03	
Ethylbenzene	1.0 U	1.0	1	10/30/22 04:03	
2-Hexanone	5.0 U	5.0	1	10/30/22 04:03	
Methylene Chloride	1.0 U	1.0	1	10/30/22 04:03	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 04:03	
Styrene	1.0 U	1.0	1	10/30/22 04:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 04:03	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 04:03	
Toluene	1.0 U	1.0	1	10/30/22 04:03	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 04:03	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 04:03	
Trichloroethene	1.0 U	1.0	1	10/30/22 04:03	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 04:03	
o-Xylene	1.0 U	1.0	1	10/30/22 04:03	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 04:03	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 09:20
Date Received: 10/21/22 12:20

Sample Name: CW4A-1022
Lab Code: R2210165-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/30/22 04:03	
Toluene-d8	99	87 - 121	10/30/22 04:03	
Dibromofluoromethane	100	80 - 116	10/30/22 04:03	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 10:50
Date Received: 10/21/22 12:20

Sample Name: MW5D-1022
Lab Code: R2210165-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	11/02/22 16:39	
Benzene	1.0 U	1.0	1	11/02/22 16:39	
Bromodichloromethane	1.0 U	1.0	1	11/02/22 16:39	
Bromoform	1.0 U	1.0	1	11/02/22 16:39	
Bromomethane	1.0 U	1.0	1	11/02/22 16:39	
2-Butanone (MEK)	5.0 U	5.0	1	11/02/22 16:39	
Carbon Disulfide	1.0 U	1.0	1	11/02/22 16:39	
Carbon Tetrachloride	1.0 U	1.0	1	11/02/22 16:39	
Chlorobenzene	1.0 U	1.0	1	11/02/22 16:39	
Chloroethane	1.0 U	1.0	1	11/02/22 16:39	
Chloroform	1.0 U	1.0	1	11/02/22 16:39	
Chloromethane	1.0 U	1.0	1	11/02/22 16:39	
Dibromochloromethane	1.0 U	1.0	1	11/02/22 16:39	
1,1-Dichloroethane	1.0 U	1.0	1	11/02/22 16:39	
1,2-Dibromoethane	1.0 U	1.0	1	11/02/22 16:39	
1,2-Dichloroethane	1.0 U	1.0	1	11/02/22 16:39	
1,1-Dichloroethene	1.0 U	1.0	1	11/02/22 16:39	
cis-1,2-Dichloroethene	83	1.0	1	11/02/22 16:39	
trans-1,2-Dichloroethene	1.0 U	1.0	1	11/02/22 16:39	
1,2-Dichloropropane	1.0 U	1.0	1	11/02/22 16:39	
cis-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 16:39	
trans-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 16:39	
Ethylbenzene	1.0 U	1.0	1	11/02/22 16:39	
2-Hexanone	5.0 U	5.0	1	11/02/22 16:39	
Methylene Chloride	1.0 U	1.0	1	11/02/22 16:39	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	11/02/22 16:39	
Styrene	1.0 U	1.0	1	11/02/22 16:39	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	11/02/22 16:39	
Tetrachloroethene	1.0 U	1.0	1	11/02/22 16:39	
Toluene	1.0 U	1.0	1	11/02/22 16:39	
1,1,1-Trichloroethane	1.0 U	1.0	1	11/02/22 16:39	
1,1,2-Trichloroethane	1.0 U	1.0	1	11/02/22 16:39	
Trichloroethene	14	1.0	1	11/02/22 16:39	
Vinyl Chloride	4.7	1.0	1	11/02/22 16:39	
o-Xylene	1.0 U	1.0	1	11/02/22 16:39	
m,p-Xylenes	2.0 U	2.0	1	11/02/22 16:39	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 10:50
Date Received: 10/21/22 12:20

Sample Name: MW5D-1022
Lab Code: R2210165-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	11/02/22 16:39	
Toluene-d8	101	87 - 121	11/02/22 16:39	
Dibromofluoromethane	99	80 - 116	11/02/22 16:39	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 12:15
Date Received: 10/21/22 12:20

Sample Name: MW5S-1022
Lab Code: R2210165-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	11/02/22 17:01	
Benzene	1.0 U	1.0	1	11/02/22 17:01	
Bromodichloromethane	1.0 U	1.0	1	11/02/22 17:01	
Bromoform	1.0 U	1.0	1	11/02/22 17:01	
Bromomethane	1.0 U	1.0	1	11/02/22 17:01	
2-Butanone (MEK)	5.0 U	5.0	1	11/02/22 17:01	
Carbon Disulfide	1.0 U	1.0	1	11/02/22 17:01	
Carbon Tetrachloride	1.0 U	1.0	1	11/02/22 17:01	
Chlorobenzene	1.0 U	1.0	1	11/02/22 17:01	
Chloroethane	1.0 U	1.0	1	11/02/22 17:01	
Chloroform	1.0 U	1.0	1	11/02/22 17:01	
Chloromethane	1.0 U	1.0	1	11/02/22 17:01	
Dibromochloromethane	1.0 U	1.0	1	11/02/22 17:01	
1,2-Dibromoethane	1.0 U	1.0	1	11/02/22 17:01	
1,1-Dichloroethane	1.0 U	1.0	1	11/02/22 17:01	
1,2-Dichloroethane	1.0 U	1.0	1	11/02/22 17:01	
1,1-Dichloroethene	1.0 U	1.0	1	11/02/22 17:01	
cis-1,2-Dichloroethene	170	1.0	1	11/02/22 17:01	
trans-1,2-Dichloroethene	1.0 U	1.0	1	11/02/22 17:01	
1,2-Dichloropropane	1.0 U	1.0	1	11/02/22 17:01	
cis-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 17:01	
trans-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 17:01	
Ethylbenzene	1.0 U	1.0	1	11/02/22 17:01	
2-Hexanone	5.0 U	5.0	1	11/02/22 17:01	
Methylene Chloride	1.0 U	1.0	1	11/02/22 17:01	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	11/02/22 17:01	
Styrene	1.0 U	1.0	1	11/02/22 17:01	
1,1,1,2-Tetrachloroethane	1.0 U	1.0	1	11/02/22 17:01	
Tetrachloroethene	1.0 U	1.0	1	11/02/22 17:01	
Toluene	1.0 U	1.0	1	11/02/22 17:01	
1,1,1-Trichloroethane	1.0 U	1.0	1	11/02/22 17:01	
1,1,2-Trichloroethane	1.0 U	1.0	1	11/02/22 17:01	
Trichloroethene	31	1.0	1	11/02/22 17:01	
Vinyl Chloride	11	1.0	1	11/02/22 17:01	
o-Xylene	1.0 U	1.0	1	11/02/22 17:01	
m,p-Xylenes	2.0 U	2.0	1	11/02/22 17:01	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 12:15
Date Received: 10/21/22 12:20

Sample Name: MW5S-1022
Lab Code: R2210165-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	11/02/22 17:01	
Toluene-d8	102	87 - 121	11/02/22 17:01	
Dibromofluoromethane	103	80 - 116	11/02/22 17:01	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 14:00
Date Received: 10/21/22 12:20

Sample Name: MW4D-1022
Lab Code: R2210165-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	11/02/22 17:23	
Benzene	1.0 U	1.0	1	11/02/22 17:23	
Bromodichloromethane	1.0 U	1.0	1	11/02/22 17:23	
Bromoform	1.0 U	1.0	1	11/02/22 17:23	
Bromomethane	1.0 U	1.0	1	11/02/22 17:23	
2-Butanone (MEK)	5.0 U	5.0	1	11/02/22 17:23	
Carbon Disulfide	1.0 U	1.0	1	11/02/22 17:23	
Carbon Tetrachloride	1.0 U	1.0	1	11/02/22 17:23	
Chlorobenzene	1.0 U	1.0	1	11/02/22 17:23	
Chloroethane	1.0 U	1.0	1	11/02/22 17:23	
Chloroform	1.0 U	1.0	1	11/02/22 17:23	
Chloromethane	1.0 U	1.0	1	11/02/22 17:23	
Dibromochloromethane	1.0 U	1.0	1	11/02/22 17:23	
1,2-Dibromoethane	1.0 U	1.0	1	11/02/22 17:23	
1,1-Dichloroethane	1.0 U	1.0	1	11/02/22 17:23	
1,2-Dichloroethane	1.0 U	1.0	1	11/02/22 17:23	
1,1-Dichloroethene	1.0 U	1.0	1	11/02/22 17:23	
cis-1,2-Dichloroethene	160	1.0	1	11/02/22 17:23	
trans-1,2-Dichloroethene	1.0	1.0	1	11/02/22 17:23	
1,2-Dichloropropane	1.0 U	1.0	1	11/02/22 17:23	
cis-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 17:23	
trans-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 17:23	
Ethylbenzene	1.0 U	1.0	1	11/02/22 17:23	
2-Hexanone	5.0 U	5.0	1	11/02/22 17:23	
Methylene Chloride	1.0 U	1.0	1	11/02/22 17:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	11/02/22 17:23	
Styrene	1.0 U	1.0	1	11/02/22 17:23	
1,1,1,2-Tetrachloroethane	1.0 U	1.0	1	11/02/22 17:23	
Tetrachloroethene	1.0 U	1.0	1	11/02/22 17:23	
Toluene	1.0 U	1.0	1	11/02/22 17:23	
1,1,1-Trichloroethane	1.0 U	1.0	1	11/02/22 17:23	
1,1,2-Trichloroethane	1.0 U	1.0	1	11/02/22 17:23	
Trichloroethene	2.7	1.0	1	11/02/22 17:23	
Vinyl Chloride	77	1.0	1	11/02/22 17:23	
o-Xylene	1.0 U	1.0	1	11/02/22 17:23	
m,p-Xylenes	2.0 U	2.0	1	11/02/22 17:23	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 14:00
Date Received: 10/21/22 12:20

Sample Name: MW4D-1022
Lab Code: R2210165-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	11/02/22 17:23	
Toluene-d8	101	87 - 121	11/02/22 17:23	
Dibromofluoromethane	101	80 - 116	11/02/22 17:23	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 09:10
Date Received: 10/21/22 12:20

Sample Name: MW3D-1022
Lab Code: R2210165-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 05:09	
Benzene	1.0 U	1.0	1	10/30/22 05:09	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 05:09	
Bromoform	1.0 U	1.0	1	10/30/22 05:09	
Bromomethane	1.0 U	1.0	1	10/30/22 05:09	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 05:09	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 05:09	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 05:09	
Chlorobenzene	1.0 U	1.0	1	10/30/22 05:09	
Chloroethane	1.0 U	1.0	1	10/30/22 05:09	
Chloroform	1.0 U	1.0	1	10/30/22 05:09	
Chloromethane	1.0 U	1.0	1	10/30/22 05:09	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 05:09	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 05:09	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 05:09	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 05:09	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 05:09	
cis-1,2-Dichloroethene	1.9	1.0	1	10/30/22 05:09	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 05:09	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 05:09	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 05:09	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 05:09	
Ethylbenzene	1.0 U	1.0	1	10/30/22 05:09	
2-Hexanone	5.0 U	5.0	1	10/30/22 05:09	
Methylene Chloride	1.1	1.0	1	10/30/22 05:09	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 05:09	
Styrene	1.0 U	1.0	1	10/30/22 05:09	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 05:09	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 05:09	
Toluene	1.0 U	1.0	1	10/30/22 05:09	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 05:09	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 05:09	
Trichloroethene	1.0 U	1.0	1	10/30/22 05:09	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 05:09	
o-Xylene	1.0 U	1.0	1	10/30/22 05:09	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 05:09	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 09:10
Date Received: 10/21/22 12:20

Sample Name: MW3D-1022
Lab Code: R2210165-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/30/22 05:09	
Toluene-d8	99	87 - 121	10/30/22 05:09	
Dibromofluoromethane	99	80 - 116	10/30/22 05:09	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 10:35
Date Received: 10/21/22 12:20

Sample Name: CW3A-1022
Lab Code: R2210165-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 05:31	
Benzene	1.0 U	1.0	1	10/30/22 05:31	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 05:31	
Bromoform	1.0 U	1.0	1	10/30/22 05:31	
Bromomethane	1.0 U	1.0	1	10/30/22 05:31	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 05:31	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 05:31	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 05:31	
Chlorobenzene	1.0 U	1.0	1	10/30/22 05:31	
Chloroethane	1.0 U	1.0	1	10/30/22 05:31	
Chloroform	1.0 U	1.0	1	10/30/22 05:31	
Chloromethane	1.0 U	1.0	1	10/30/22 05:31	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 05:31	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 05:31	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 05:31	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 05:31	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 05:31	
cis-1,2-Dichloroethene	4.8	1.0	1	10/30/22 05:31	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 05:31	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 05:31	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 05:31	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 05:31	
Ethylbenzene	1.0 U	1.0	1	10/30/22 05:31	
2-Hexanone	5.0 U	5.0	1	10/30/22 05:31	
Methylene Chloride	1.0 U	1.0	1	10/30/22 05:31	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 05:31	
Styrene	1.0 U	1.0	1	10/30/22 05:31	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 05:31	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 05:31	
Toluene	1.0 U	1.0	1	10/30/22 05:31	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 05:31	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 05:31	
Trichloroethene	26	1.0	1	10/30/22 05:31	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 05:31	
o-Xylene	1.0 U	1.0	1	10/30/22 05:31	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 05:31	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 10:35
Date Received: 10/21/22 12:20

Sample Name: CW3A-1022
Lab Code: R2210165-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	10/30/22 05:31	
Toluene-d8	99	87 - 121	10/30/22 05:31	
Dibromofluoromethane	99	80 - 116	10/30/22 05:31	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 12:00
Date Received: 10/21/22 12:20

Sample Name: MW11S-1022
Lab Code: R2210165-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	100 U	100	20	10/30/22 07:43	
Benzene	20 U	20	20	10/30/22 07:43	
Bromodichloromethane	20 U	20	20	10/30/22 07:43	
Bromoform	20 U	20	20	10/30/22 07:43	
Bromomethane	20 U	20	20	10/30/22 07:43	
2-Butanone (MEK)	100 U	100	20	10/30/22 07:43	
Carbon Disulfide	20 U	20	20	10/30/22 07:43	
Carbon Tetrachloride	20 U	20	20	10/30/22 07:43	
Chlorobenzene	20 U	20	20	10/30/22 07:43	
Chloroethane	20 U	20	20	10/30/22 07:43	
Chloroform	20 U	20	20	10/30/22 07:43	
Chloromethane	20 U	20	20	10/30/22 07:43	
Dibromochloromethane	20 U	20	20	10/30/22 07:43	
1,1-Dichloroethane	20 U	20	20	10/30/22 07:43	
1,2-Dibromoethane	20 U	20	20	10/30/22 07:43	
1,2-Dichloroethane	20 U	20	20	10/30/22 07:43	
1,1-Dichloroethene	20 U	20	20	10/30/22 07:43	
cis-1,2-Dichloroethene	230	20	20	10/30/22 07:43	
trans-1,2-Dichloroethene	20 U	20	20	10/30/22 07:43	
1,2-Dichloropropane	20 U	20	20	10/30/22 07:43	
cis-1,3-Dichloropropene	20 U	20	20	10/30/22 07:43	
trans-1,3-Dichloropropene	20 U	20	20	10/30/22 07:43	
Ethylbenzene	20 U	20	20	10/30/22 07:43	
2-Hexanone	100 U	100	20	10/30/22 07:43	
Methylene Chloride	20 U	20	20	10/30/22 07:43	
4-Methyl-2-pentanone (MIBK)	100 U	100	20	10/30/22 07:43	
Styrene	20 U	20	20	10/30/22 07:43	
1,1,1,2-Tetrachloroethane	20 U	20	20	10/30/22 07:43	
Tetrachloroethene	20 U	20	20	10/30/22 07:43	
Toluene	20 U	20	20	10/30/22 07:43	
1,1,1-Trichloroethane	20 U	20	20	10/30/22 07:43	
1,1,2-Trichloroethane	20 U	20	20	10/30/22 07:43	
Trichloroethene	2700	20	20	10/30/22 07:43	
Vinyl Chloride	20 U	20	20	10/30/22 07:43	
o-Xylene	20 U	20	20	10/30/22 07:43	
m,p-Xylenes	40 U	40	20	10/30/22 07:43	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 12:00
Date Received: 10/21/22 12:20

Sample Name: MW11S-1022
Lab Code: R2210165-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/30/22 07:43	
Toluene-d8	98	87 - 121	10/30/22 07:43	
Dibromofluoromethane	97	80 - 116	10/30/22 07:43	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 13:30
Date Received: 10/21/22 12:20

Sample Name: MW18S-1022
Lab Code: R2210165-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 05:53	
Benzene	1.0 U	1.0	1	10/30/22 05:53	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 05:53	
Bromoform	1.0 U	1.0	1	10/30/22 05:53	
Bromomethane	1.0 U	1.0	1	10/30/22 05:53	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 05:53	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 05:53	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 05:53	
Chlorobenzene	1.0 U	1.0	1	10/30/22 05:53	
Chloroethane	1.0 U	1.0	1	10/30/22 05:53	
Chloroform	1.0 U	1.0	1	10/30/22 05:53	
Chloromethane	1.0 U	1.0	1	10/30/22 05:53	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 05:53	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 05:53	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 05:53	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 05:53	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 05:53	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 05:53	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 05:53	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 05:53	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 05:53	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 05:53	
Ethylbenzene	1.0 U	1.0	1	10/30/22 05:53	
2-Hexanone	5.0 U	5.0	1	10/30/22 05:53	
Methylene Chloride	1.0 U	1.0	1	10/30/22 05:53	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 05:53	
Styrene	1.0 U	1.0	1	10/30/22 05:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 05:53	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 05:53	
Toluene	1.0 U	1.0	1	10/30/22 05:53	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 05:53	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 05:53	
Trichloroethene	21	1.0	1	10/30/22 05:53	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 05:53	
o-Xylene	1.0 U	1.0	1	10/30/22 05:53	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 05:53	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 13:30
Date Received: 10/21/22 12:20

Sample Name: MW18S-1022
Lab Code: R2210165-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/30/22 05:53	
Toluene-d8	99	87 - 121	10/30/22 05:53	
Dibromofluoromethane	98	80 - 116	10/30/22 05:53	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 15:10
Date Received: 10/21/22 12:20

Sample Name: MW18D-1022
Lab Code: R2210165-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 06:15	
Benzene	1.0 U	1.0	1	10/30/22 06:15	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 06:15	
Bromoform	1.0 U	1.0	1	10/30/22 06:15	
Bromomethane	1.0 U	1.0	1	10/30/22 06:15	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 06:15	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 06:15	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 06:15	
Chlorobenzene	1.0 U	1.0	1	10/30/22 06:15	
Chloroethane	1.0 U	1.0	1	10/30/22 06:15	
Chloroform	1.0 U	1.0	1	10/30/22 06:15	
Chloromethane	1.0 U	1.0	1	10/30/22 06:15	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 06:15	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 06:15	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 06:15	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 06:15	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 06:15	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 06:15	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 06:15	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 06:15	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 06:15	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 06:15	
Ethylbenzene	1.0 U	1.0	1	10/30/22 06:15	
2-Hexanone	5.0 U	5.0	1	10/30/22 06:15	
Methylene Chloride	1.0 U	1.0	1	10/30/22 06:15	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 06:15	
Styrene	1.0 U	1.0	1	10/30/22 06:15	
1,1,1,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 06:15	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 06:15	
Toluene	1.0 U	1.0	1	10/30/22 06:15	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 06:15	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 06:15	
Trichloroethene	1.0 U	1.0	1	10/30/22 06:15	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 06:15	
o-Xylene	1.0 U	1.0	1	10/30/22 06:15	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 06:15	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 15:10
Date Received: 10/21/22 12:20

Sample Name: MW18D-1022
Lab Code: R2210165-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/30/22 06:15	
Toluene-d8	98	87 - 121	10/30/22 06:15	
Dibromofluoromethane	99	80 - 116	10/30/22 06:15	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 15:45
Date Received: 10/21/22 12:20

Sample Name: LS1-1022
Lab Code: R2210165-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	11/02/22 17:45	
Benzene	1.0 U	1.0	1	11/02/22 17:45	
Bromodichloromethane	1.0 U	1.0	1	11/02/22 17:45	
Bromoform	1.0 U	1.0	1	11/02/22 17:45	
Bromomethane	1.0 U	1.0	1	11/02/22 17:45	
2-Butanone (MEK)	5.0 U	5.0	1	11/02/22 17:45	
Carbon Disulfide	1.0 U	1.0	1	11/02/22 17:45	
Carbon Tetrachloride	1.0 U	1.0	1	11/02/22 17:45	
Chlorobenzene	1.0 U	1.0	1	11/02/22 17:45	
Chloroethane	1.0 U	1.0	1	11/02/22 17:45	
Chloroform	1.0 U	1.0	1	11/02/22 17:45	
Chloromethane	1.0 U	1.0	1	11/02/22 17:45	
Dibromochloromethane	1.0 U	1.0	1	11/02/22 17:45	
1,2-Dibromoethane	1.0 U	1.0	1	11/02/22 17:45	
1,1-Dichloroethane	1.0 U	1.0	1	11/02/22 17:45	
1,2-Dichloroethane	1.0 U	1.0	1	11/02/22 17:45	
1,1-Dichloroethene	1.0 U	1.0	1	11/02/22 17:45	
cis-1,2-Dichloroethene	2.6	1.0	1	11/02/22 17:45	
trans-1,2-Dichloroethene	1.0 U	1.0	1	11/02/22 17:45	
1,2-Dichloropropane	1.0 U	1.0	1	11/02/22 17:45	
cis-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 17:45	
trans-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 17:45	
Ethylbenzene	1.0 U	1.0	1	11/02/22 17:45	
2-Hexanone	5.0 U	5.0	1	11/02/22 17:45	
Methylene Chloride	1.0 U	1.0	1	11/02/22 17:45	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	11/02/22 17:45	
Styrene	1.0 U	1.0	1	11/02/22 17:45	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	11/02/22 17:45	
Tetrachloroethene	1.0 U	1.0	1	11/02/22 17:45	
Toluene	1.0 U	1.0	1	11/02/22 17:45	
1,1,1-Trichloroethane	1.0 U	1.0	1	11/02/22 17:45	
1,1,2-Trichloroethane	1.0 U	1.0	1	11/02/22 17:45	
Trichloroethene	1.0 U	1.0	1	11/02/22 17:45	
Vinyl Chloride	1.0 U	1.0	1	11/02/22 17:45	
o-Xylene	1.0 U	1.0	1	11/02/22 17:45	
m,p-Xylenes	2.0 U	2.0	1	11/02/22 17:45	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 15:45
Date Received: 10/21/22 12:20

Sample Name: LS1-1022
Lab Code: R2210165-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	11/02/22 17:45	
Toluene-d8	102	87 - 121	11/02/22 17:45	
Dibromofluoromethane	102	80 - 116	11/02/22 17:45	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/21/22 08:15
Date Received: 10/21/22 12:20

Sample Name: EB1-1022
Lab Code: R2210165-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 02:14	
Benzene	1.0 U	1.0	1	10/30/22 02:14	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 02:14	
Bromoform	1.0 U	1.0	1	10/30/22 02:14	
Bromomethane	1.0 U	1.0	1	10/30/22 02:14	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 02:14	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 02:14	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 02:14	
Chlorobenzene	1.0 U	1.0	1	10/30/22 02:14	
Chloroethane	1.0 U	1.0	1	10/30/22 02:14	
Chloroform	1.0 U	1.0	1	10/30/22 02:14	
Chloromethane	1.0 U	1.0	1	10/30/22 02:14	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 02:14	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 02:14	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 02:14	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 02:14	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 02:14	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 02:14	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 02:14	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 02:14	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 02:14	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 02:14	
Ethylbenzene	1.0 U	1.0	1	10/30/22 02:14	
2-Hexanone	5.0 U	5.0	1	10/30/22 02:14	
Methylene Chloride	1.0 U	1.0	1	10/30/22 02:14	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 02:14	
Styrene	1.0 U	1.0	1	10/30/22 02:14	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 02:14	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 02:14	
Toluene	1.0 U	1.0	1	10/30/22 02:14	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 02:14	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 02:14	
Trichloroethene	1.0 U	1.0	1	10/30/22 02:14	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 02:14	
o-Xylene	1.0 U	1.0	1	10/30/22 02:14	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 02:14	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/21/22 08:15
Date Received: 10/21/22 12:20

Sample Name: EB1-1022
Lab Code: R2210165-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/30/22 02:14	
Toluene-d8	100	87 - 121	10/30/22 02:14	
Dibromofluoromethane	100	80 - 116	10/30/22 02:14	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/21/22 08:15
Date Received: 10/21/22 12:20

Sample Name: Trip Blank
Lab Code: R2210165-020

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 02:35	
Benzene	1.0 U	1.0	1	10/30/22 02:35	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 02:35	
Bromoform	1.0 U	1.0	1	10/30/22 02:35	
Bromomethane	1.0 U	1.0	1	10/30/22 02:35	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 02:35	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 02:35	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 02:35	
Chlorobenzene	1.0 U	1.0	1	10/30/22 02:35	
Chloroethane	1.0 U	1.0	1	10/30/22 02:35	
Chloroform	1.0 U	1.0	1	10/30/22 02:35	
Chloromethane	1.0 U	1.0	1	10/30/22 02:35	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 02:35	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 02:35	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 02:35	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 02:35	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 02:35	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 02:35	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 02:35	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 02:35	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 02:35	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 02:35	
Ethylbenzene	1.0 U	1.0	1	10/30/22 02:35	
2-Hexanone	5.0 U	5.0	1	10/30/22 02:35	
Methylene Chloride	1.0 U	1.0	1	10/30/22 02:35	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 02:35	
Styrene	1.0 U	1.0	1	10/30/22 02:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 02:35	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 02:35	
Toluene	1.0 U	1.0	1	10/30/22 02:35	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 02:35	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 02:35	
Trichloroethene	1.0 U	1.0	1	10/30/22 02:35	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 02:35	
o-Xylene	1.0 U	1.0	1	10/30/22 02:35	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 02:35	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/21/22 08:15
Date Received: 10/21/22 12:20

Sample Name: Trip Blank
Lab Code: R2210165-020

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	10/30/22 02:35	
Toluene-d8	98	87 - 121	10/30/22 02:35	
Dibromofluoromethane	98	80 - 116	10/30/22 02:35	



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 10:05
Date Received: 10/21/22 12:20

Sample Name: CW3B-1022
Lab Code: R2210165-001

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.85	0.040	0.027	1	10/26/22 21:22	10/25/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	88	64 - 124	10/26/22 21:22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 12:55
Date Received: 10/21/22 12:20

Sample Name: CW4B-1022
Lab Code: R2210165-002

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.34	0.040	0.027	1	10/26/22 21:40	10/25/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	87	64 - 124	10/26/22 21:40	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 14:55
Date Received: 10/21/22 12:20

Sample Name: MW17S-1022
Lab Code: R2210165-003

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.30 B	0.040	0.027	1	10/26/22 21:58	10/25/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	92	64 - 124	10/26/22 21:58	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 14:55
Date Received: 10/21/22 12:20

Sample Name: MW17S-1022
Lab Code: R2210165-003

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.32 B	0.040	0.027	1	10/27/22 19:17	10/27/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	92	64 - 124	10/27/22 19:17	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: DUP1-1022
Lab Code: R2210165-004

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.30 B	0.040	0.027	1	10/26/22 22:15	10/25/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	90	64 - 124	10/26/22 22:15	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: DUP1-1022
Lab Code: R2210165-004

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.30 B	0.040	0.027	1	10/27/22 19:34	10/27/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	93	64 - 124	10/27/22 19:34	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 09:20
Date Received: 10/21/22 12:20

Sample Name: CW4A-1022
Lab Code: R2210165-006

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.35	0.040	0.027	1	10/26/22 22:33	10/25/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	96	64 - 124	10/26/22 22:33	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 10:50
Date Received: 10/21/22 12:20

Sample Name: MW5D-1022
Lab Code: R2210165-007

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.18 B	0.040	0.027	1	10/26/22 22:51	10/25/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	89	64 - 124	10/26/22 22:51	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 10:50
Date Received: 10/21/22 12:20

Sample Name: MW5D-1022
Lab Code: R2210165-007

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.20 B	0.040	0.027	1	10/27/22 19:52	10/27/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	90	64 - 124	10/27/22 19:52	



Metals

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: CW3B-1022
Lab Code: R2210165-001

Service Request: R2210165
Date Collected: 10/18/22 10:05
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/08/22 23:56	11/07/22	
Barium, Total	6010C	39	ug/L	20	1	11/08/22 23:56	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/08/22 23:56	11/07/22	
Calcium, Total	6010C	69600	ug/L	1000	1	11/08/22 23:56	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/08/22 23:56	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/08/22 23:56	11/07/22	
Iron, Total	6010C	100	ug/L	100	1	11/08/22 23:56	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/08/22 23:56	11/07/22	
Magnesium, Total	6010C	35400	ug/L	1000	1	11/08/22 23:56	11/07/22	
Manganese, Total	6010C	41	ug/L	10	1	11/08/22 23:56	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/08/22 23:56	11/07/22	
Potassium, Total	6010C	2600	ug/L	2000	1	11/08/22 23:56	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/08/22 23:56	11/07/22	
Sodium, Total	6010C	21900	ug/L	1000	1	11/08/22 23:56	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/08/22 23:56	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: CW4B-1022
Lab Code: R2210165-002

Service Request: R2210165
Date Collected: 10/18/22 12:55
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:00	11/07/22	
Barium, Total	6010C	30	ug/L	20	1	11/09/22 00:00	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:00	11/07/22	
Calcium, Total	6010C	39700	ug/L	1000	1	11/09/22 00:00	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:00	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:00	11/07/22	
Iron, Total	6010C	100 U	ug/L	100	1	11/09/22 00:00	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:00	11/07/22	
Magnesium, Total	6010C	17000	ug/L	1000	1	11/09/22 00:00	11/07/22	
Manganese, Total	6010C	33	ug/L	10	1	11/09/22 00:00	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:00	11/07/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/09/22 00:00	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:00	11/07/22	
Sodium, Total	6010C	14700	ug/L	1000	1	11/09/22 00:00	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:00	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 14:55
Date Received: 10/21/22 12:20

Sample Name: MW17S-1022
Lab Code: R2210165-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:03	11/07/22	
Barium, Total	6010C	40	ug/L	20	1	11/09/22 00:03	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:03	11/07/22	
Calcium, Total	6010C	76300	ug/L	1000	1	11/09/22 00:03	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:03	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:03	11/07/22	
Iron, Total	6010C	180	ug/L	100	1	11/09/22 00:03	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:03	11/07/22	
Magnesium, Total	6010C	49800	ug/L	1000	1	11/09/22 00:03	11/07/22	
Manganese, Total	6010C	47	ug/L	10	1	11/09/22 00:03	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:03	11/07/22	
Potassium, Total	6010C	3600	ug/L	2000	1	11/09/22 00:03	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:03	11/07/22	
Sodium, Total	6010C	62700	ug/L	1000	1	11/09/22 00:03	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:03	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: DUP1-1022
Lab Code: R2210165-004

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:06	11/07/22	
Barium, Total	6010C	39	ug/L	20	1	11/09/22 00:06	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:06	11/07/22	
Calcium, Total	6010C	76800	ug/L	1000	1	11/09/22 00:06	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:06	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:06	11/07/22	
Iron, Total	6010C	210	ug/L	100	1	11/09/22 00:06	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:06	11/07/22	
Magnesium, Total	6010C	50200	ug/L	1000	1	11/09/22 00:06	11/07/22	
Manganese, Total	6010C	50	ug/L	10	1	11/09/22 00:06	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:06	11/07/22	
Potassium, Total	6010C	3600	ug/L	2000	1	11/09/22 00:06	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:06	11/07/22	
Sodium, Total	6010C	62700	ug/L	1000	1	11/09/22 00:06	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:06	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: CW4A-1022
Lab Code: R2210165-006

Service Request: R2210165
Date Collected: 10/19/22 09:20
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:09	11/07/22	
Barium, Total	6010C	56	ug/L	20	1	11/09/22 00:09	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:09	11/07/22	
Calcium, Total	6010C	29100	ug/L	1000	1	11/09/22 00:09	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:09	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:09	11/07/22	
Iron, Total	6010C	280	ug/L	100	1	11/09/22 00:09	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:09	11/07/22	
Magnesium, Total	6010C	16200	ug/L	1000	1	11/09/22 00:09	11/07/22	
Manganese, Total	6010C	293	ug/L	10	1	11/09/22 00:09	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:09	11/07/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/09/22 00:09	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:09	11/07/22	
Sodium, Total	6010C	13600	ug/L	1000	1	11/09/22 00:09	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:09	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MW5D-1022
Lab Code: R2210165-007

Service Request: R2210165
Date Collected: 10/19/22 10:50
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:13	11/07/22	
Barium, Total	6010C	30	ug/L	20	1	11/09/22 00:13	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:13	11/07/22	
Calcium, Total	6010C	15100	ug/L	1000	1	11/09/22 00:13	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:13	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:13	11/07/22	
Iron, Total	6010C	1030	ug/L	100	1	11/09/22 00:13	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:13	11/07/22	
Magnesium, Total	6010C	9500	ug/L	1000	1	11/09/22 00:13	11/07/22	
Manganese, Total	6010C	414	ug/L	10	1	11/09/22 00:13	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:13	11/07/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/09/22 00:13	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:13	11/07/22	
Sodium, Total	6010C	6300	ug/L	1000	1	11/09/22 00:13	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:13	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MW5S-1022
Lab Code: R2210165-008

Service Request: R2210165
Date Collected: 10/19/22 12:15
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:16	11/07/22	
Barium, Total	6010C	20 U	ug/L	20	1	11/09/22 00:16	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:16	11/07/22	
Calcium, Total	6010C	13500	ug/L	1000	1	11/09/22 00:16	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:16	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:16	11/07/22	
Iron, Total	6010C	200	ug/L	100	1	11/09/22 00:16	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:16	11/07/22	
Magnesium, Total	6010C	9800	ug/L	1000	1	11/09/22 00:16	11/07/22	
Manganese, Total	6010C	76	ug/L	10	1	11/09/22 00:16	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:16	11/07/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/09/22 00:16	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:16	11/07/22	
Sodium, Total	6010C	6300	ug/L	1000	1	11/09/22 00:16	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:16	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MW4D-1022
Lab Code: R2210165-009

Service Request: R2210165
Date Collected: 10/19/22 14:00
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:26	11/07/22	
Barium, Total	6010C	20 U	ug/L	20	1	11/09/22 00:26	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:26	11/07/22	
Calcium, Total	6010C	20200	ug/L	1000	1	11/09/22 00:26	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:26	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:26	11/07/22	
Iron, Total	6010C	520	ug/L	100	1	11/09/22 00:26	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:26	11/07/22	
Magnesium, Total	6010C	18100	ug/L	1000	1	11/09/22 00:26	11/07/22	
Manganese, Total	6010C	1610	ug/L	10	1	11/09/22 00:26	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:26	11/07/22	
Potassium, Total	6010C	2400	ug/L	2000	1	11/09/22 00:26	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:26	11/07/22	
Sodium, Total	6010C	5700	ug/L	1000	1	11/09/22 00:26	11/07/22	
Zinc, Total	6010C	21	ug/L	20	1	11/09/22 00:26	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MW3D-1022
Lab Code: R2210165-010

Service Request: R2210165
Date Collected: 10/20/22 09:10
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:29	11/07/22	
Barium, Total	6010C	65	ug/L	20	1	11/09/22 00:29	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:29	11/07/22	
Calcium, Total	6010C	44900	ug/L	1000	1	11/09/22 00:29	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:29	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:29	11/07/22	
Iron, Total	6010C	370	ug/L	100	1	11/09/22 00:29	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:29	11/07/22	
Magnesium, Total	6010C	6500	ug/L	1000	1	11/09/22 00:29	11/07/22	
Manganese, Total	6010C	10 U	ug/L	10	1	11/09/22 00:29	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:29	11/07/22	
Potassium, Total	6010C	4600	ug/L	2000	1	11/09/22 00:29	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:29	11/07/22	
Sodium, Total	6010C	19000	ug/L	1000	1	11/09/22 00:29	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:29	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: CW3A-1022
Lab Code: R2210165-014

Service Request: R2210165
Date Collected: 10/20/22 10:35
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:32	11/07/22	
Barium, Total	6010C	98	ug/L	20	1	11/09/22 00:32	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:32	11/07/22	
Calcium, Total	6010C	123000	ug/L	1000	1	11/09/22 00:32	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:32	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:32	11/07/22	
Iron, Total	6010C	510	ug/L	100	1	11/09/22 00:32	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:32	11/07/22	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	11/09/22 00:32	11/07/22	
Manganese, Total	6010C	10	ug/L	10	1	11/09/22 00:32	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:32	11/07/22	
Potassium, Total	6010C	12400	ug/L	2000	1	11/09/22 00:32	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:32	11/07/22	
Sodium, Total	6010C	36400	ug/L	1000	1	11/09/22 00:32	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:32	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 12:00
Date Received: 10/21/22 12:20

Sample Name: MW11S-1022
Lab Code: R2210165-015

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:35	11/07/22	
Barium, Total	6010C	26	ug/L	20	1	11/09/22 00:35	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:35	11/07/22	
Calcium, Total	6010C	57000	ug/L	1000	1	11/09/22 00:35	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:35	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:35	11/07/22	
Iron, Total	6010C	150	ug/L	100	1	11/09/22 00:35	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:35	11/07/22	
Magnesium, Total	6010C	35100	ug/L	1000	1	11/09/22 00:35	11/07/22	
Manganese, Total	6010C	814	ug/L	10	1	11/09/22 00:35	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:35	11/07/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/09/22 00:35	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:35	11/07/22	
Sodium, Total	6010C	20700	ug/L	1000	1	11/09/22 00:35	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 00:35	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: MW18S-1022
Lab Code: R2210165-016

Service Request: R2210165
Date Collected: 10/20/22 13:30
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 00:58	11/07/22	
Barium, Total	6010C	51	ug/L	20	1	11/09/22 00:58	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:58	11/07/22	
Calcium, Total	6010C	34000	ug/L	1000	1	11/09/22 00:58	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:58	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 00:58	11/07/22	
Iron, Total	6010C	640	ug/L	100	1	11/09/22 00:58	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 00:58	11/07/22	
Magnesium, Total	6010C	15300	ug/L	1000	1	11/09/22 00:58	11/07/22	
Manganese, Total	6010C	156	ug/L	10	1	11/09/22 00:58	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 00:58	11/07/22	
Potassium, Total	6010C	2200	ug/L	2000	1	11/09/22 00:58	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 00:58	11/07/22	
Sodium, Total	6010C	4800	ug/L	1000	1	11/09/22 00:58	11/07/22	
Zinc, Total	6010C	26	ug/L	20	1	11/09/22 00:58	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 15:10
Date Received: 10/21/22 12:20

Sample Name: MW18D-1022
Lab Code: R2210165-017

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 01:01	11/07/22	
Barium, Total	6010C	66	ug/L	20	1	11/09/22 01:01	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 01:01	11/07/22	
Calcium, Total	6010C	39400	ug/L	1000	1	11/09/22 01:01	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 01:01	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 01:01	11/07/22	
Iron, Total	6010C	4790	ug/L	100	1	11/09/22 01:01	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 01:01	11/07/22	
Magnesium, Total	6010C	18200	ug/L	1000	1	11/09/22 01:01	11/07/22	
Manganese, Total	6010C	495	ug/L	10	1	11/09/22 01:01	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 01:01	11/07/22	
Potassium, Total	6010C	2800	ug/L	2000	1	11/09/22 01:01	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 01:01	11/07/22	
Sodium, Total	6010C	20900	ug/L	1000	1	11/09/22 01:01	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 01:01	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22 15:45
Date Received: 10/21/22 12:20

Sample Name: LS1-1022
Lab Code: R2210165-018

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 01:05	11/07/22	
Barium, Total	6010C	94	ug/L	20	1	11/09/22 01:05	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 01:05	11/07/22	
Calcium, Total	6010C	119000	ug/L	1000	1	11/09/22 01:05	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 01:05	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 01:05	11/07/22	
Iron, Total	6010C	730	ug/L	100	1	11/09/22 01:05	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 01:05	11/07/22	
Magnesium, Total	6010C	32900	ug/L	1000	1	11/09/22 01:05	11/07/22	
Manganese, Total	6010C	816	ug/L	10	1	11/09/22 01:05	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 01:05	11/07/22	
Potassium, Total	6010C	4700	ug/L	2000	1	11/09/22 01:05	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 01:05	11/07/22	
Sodium, Total	6010C	30300	ug/L	1000	1	11/09/22 01:05	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 01:05	11/07/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: EB1-1022
Lab Code: R2210165-019

Service Request: R2210165
Date Collected: 10/21/22 08:15
Date Received: 10/21/22 12:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/09/22 01:08	11/07/22	
Barium, Total	6010C	20 U	ug/L	20	1	11/09/22 01:08	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 01:08	11/07/22	
Calcium, Total	6010C	1000 U	ug/L	1000	1	11/09/22 01:08	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/09/22 01:08	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/09/22 01:08	11/07/22	
Iron, Total	6010C	100 U	ug/L	100	1	11/09/22 01:08	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/09/22 01:08	11/07/22	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	11/09/22 01:08	11/07/22	
Manganese, Total	6010C	10 U	ug/L	10	1	11/09/22 01:08	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/09/22 01:08	11/07/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/09/22 01:08	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/09/22 01:08	11/07/22	
Sodium, Total	6010C	1000 U	ug/L	1000	1	11/09/22 01:08	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/09/22 01:08	11/07/22	



QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165

SURROGATE RECOVERY SUMMARY
Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Extraction Method:

Sample Name	Lab Code	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
		70-130	70-130
WAL19Post-1022	R2210165-011	82	84
WAL19Inter-1022	R2210165-012	82	85
WAL19Pre-1022	R2210165-013	81	83
Method Blank	RQ2213361-05	84	84
Lab Control Sample	RQ2213361-03	95	98
Duplicate Lab Control Sample	RQ2213361-04	94	103

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213361-05

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	10/26/22 19:51	
Bromobenzene	0.50 U	0.50	1	10/26/22 19:51	
Bromochloromethane	0.50 U	0.50	1	10/26/22 19:51	
Bromodichloromethane	0.50 U	0.50	1	10/26/22 19:51	
Bromoform	0.50 U	0.50	1	10/26/22 19:51	
Bromomethane	0.50 U	0.50	1	10/26/22 19:51	
Methyl tert-Butyl Ether	0.50 U	0.50	1	10/26/22 19:51	
tert-Butylbenzene	0.50 U	0.50	1	10/26/22 19:51	
sec-Butylbenzene	0.50 U	0.50	1	10/26/22 19:51	
n-Butylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Carbon Tetrachloride	0.50 U	0.50	1	10/26/22 19:51	
Chlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
Chloroethane	0.50 U	0.50	1	10/26/22 19:51	
Chloroform	0.50 U	0.50	1	10/26/22 19:51	
Chloromethane	0.50 U	0.50	1	10/26/22 19:51	
2-Chlorotoluene	0.50 U	0.50	1	10/26/22 19:51	
4-Chlorotoluene	0.50 U	0.50	1	10/26/22 19:51	
Dibromochloromethane	0.50 U	0.50	1	10/26/22 19:51	
Dibromomethane	0.50 U	0.50	1	10/26/22 19:51	
1,2-Dichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,4-Dichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,3-Dichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
Dichlorodifluoromethane	0.50 U	0.50	1	10/26/22 19:51	
1,1-Dichloroethane	0.50 U	0.50	1	10/26/22 19:51	
1,2-Dichloroethane	0.50 U	0.50	1	10/26/22 19:51	
1,1-Dichloroethene	0.50 U	0.50	1	10/26/22 19:51	
trans-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 19:51	
cis-1,2-Dichloroethene	0.50 U	0.50	1	10/26/22 19:51	
2,2-Dichloropropane	0.50 U	0.50	1	10/26/22 19:51	
1,2-Dichloropropane	0.50 U	0.50	1	10/26/22 19:51	
1,3-Dichloropropane	0.50 U	0.50	1	10/26/22 19:51	
trans-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 19:51	
cis-1,3-Dichloropropene	0.50 U	0.50	1	10/26/22 19:51	
Ethylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Hexachlorobutadiene	0.50 U	0.50	1	10/26/22 19:51	
Isopropylbenzene	0.50 U	0.50	1	10/26/22 19:51	
p-Isopropyltoluene	0.50 U	0.50	1	10/26/22 19:51	
Methylene Chloride	0.50 U	0.50	1	10/26/22 19:51	
Naphthalene	0.50 U	0.50	1	10/26/22 19:51	
n-Propylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Styrene	0.50 U	0.50	1	10/26/22 19:51	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 19:51	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	10/26/22 19:51	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water
Sample Name: Method Blank
Lab Code: RQ2213361-05

Service Request: R2210165
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	10/26/22 19:51	
Toluene	0.50 U	0.50	1	10/26/22 19:51	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	10/26/22 19:51	
1,1,2-Trichloroethane	0.50 U	0.50	1	10/26/22 19:51	
Trichloroethene	0.50 U	0.50	1	10/26/22 19:51	
Trichlorofluoromethane	0.50 U	0.50	1	10/26/22 19:51	
1,2,3-Trichloropropane	0.50 U	0.50	1	10/26/22 19:51	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	10/26/22 19:51	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	10/26/22 19:51	
Vinyl Chloride	0.50 U	0.50	1	10/26/22 19:51	
m,p-Xylenes	1.0 U	1.0	1	10/26/22 19:51	
o-Xylene	0.50 U	0.50	1	10/26/22 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	84	70 - 130	10/26/22 19:51	
1,2-Dichlorobenzene-d4	84	70 - 130	10/26/22 19:51	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Analyzed: 10/26/22

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2213361-03				Duplicate Lab Control Sample RQ2213361-04				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzene	524.2	4.81	5.00	96	4.80	5.00	96	70-130	<1	20
Bromobenzene	524.2	5.09	5.00	102	5.05	5.00	101	70-130	<1	20
Bromochloromethane	524.2	4.80	5.00	96	4.68	5.00	94	70-130	3	20
Bromodichloromethane	524.2	4.74	5.00	95	4.70	5.00	94	70-130	<1	20
Bromoform	524.2	5.63	5.00	113	5.67	5.00	113	70-130	<1	20
Bromomethane	524.2	4.11	5.00	82	4.13	5.00	83	70-130	<1	20
Methyl tert-Butyl Ether	524.2	4.78	5.00	96	4.80	5.00	96	70-130	<1	20
tert-Butylbenzene	524.2	5.25	5.00	105	5.13	5.00	103	70-130	2	20
sec-Butylbenzene	524.2	5.46	5.00	109	5.42	5.00	108	70-130	<1	20
n-Butylbenzene	524.2	5.53	5.00	111	5.34	5.00	107	70-130	3	20
Carbon Tetrachloride	524.2	5.16	5.00	103	5.22	5.00	104	70-130	1	20
Chlorobenzene	524.2	5.26	5.00	105	5.05	5.00	101	70-130	4	20
Chloroethane	524.2	4.19	5.00	84	4.24	5.00	85	70-130	1	20
Chloroform	524.2	5.03	5.00	101	4.94	5.00	99	70-130	2	20
Chloromethane	524.2	4.36	5.00	87	4.38	5.00	88	70-130	<1	20
2-Chlorotoluene	524.2	5.40	5.00	108	5.32	5.00	106	70-130	1	20
4-Chlorotoluene	524.2	5.29	5.00	106	5.27	5.00	105	70-130	<1	20
Dibromochloromethane	524.2	4.78	5.00	96	4.91	5.00	98	70-130	3	20
Dibromomethane	524.2	4.81	5.00	96	4.89	5.00	98	70-130	2	20
1,2-Dichlorobenzene	524.2	5.42	5.00	108	5.36	5.00	107	70-130	1	20
1,4-Dichlorobenzene	524.2	5.51	5.00	110	5.41	5.00	108	70-130	2	20
1,3-Dichlorobenzene	524.2	5.58	5.00	112	5.55	5.00	111	70-130	<1	20
Dichlorodifluoromethane	524.2	3.15	5.00	63 *	3.13	5.00	63 *	70-130	<1	20
1,1-Dichloroethane	524.2	5.11	5.00	102	5.03	5.00	101	70-130	2	20
1,2-Dichloroethane	524.2	5.01	5.00	100	4.93	5.00	99	70-130	2	20
1,1-Dichloroethene	524.2	5.04	5.00	101	4.99	5.00	100	70-130	<1	20
trans-1,2-Dichloroethene	524.2	5.00	5.00	100	4.78	5.00	96	70-130	4	20
cis-1,2-Dichloroethene	524.2	4.81	5.00	96	4.77	5.00	95	70-130	<1	20
2,2-Dichloropropane	524.2	5.81	5.00	116	5.84	5.00	117	70-130	<1	20
1,2-Dichloropropane	524.2	4.73	5.00	95	4.81	5.00	96	70-130	2	20
1,3-Dichloropropane	524.2	4.97	5.00	99	4.97	5.00	99	70-130	<1	20
trans-1,3-Dichloropropene	524.2	4.95	5.00	99	5.03	5.00	101	70-130	2	20
cis-1,3-Dichloropropene	524.2	4.84	5.00	97	4.91	5.00	98	70-130	1	20

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2210165
Date Analyzed: 10/26/22

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2213361-03				Duplicate Lab Control Sample RQ2213361-04				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Ethylbenzene	524.2	5.21	5.00	104	4.92	5.00	98	70-130	6	20
Hexachlorobutadiene	524.2	5.86	5.00	117	5.80	5.00	116	70-130	1	20
Isopropylbenzene	524.2	5.34	5.00	107	5.32	5.00	106	70-130	<1	20
p-Isopropyltoluene	524.2	5.53	5.00	111	5.35	5.00	107	70-130	3	20
Methylene Chloride	524.2	4.59	5.00	92	4.44	5.00	89	70-130	3	20
Naphthalene	524.2	4.61	5.00	92	4.69	5.00	94	70-130	2	20
n-Propylbenzene	524.2	5.48	5.00	110	5.36	5.00	107	70-130	2	20
Styrene	524.2	5.06	5.00	101	4.82	5.00	96	70-130	5	20
1,1,1,2-Tetrachloroethane	524.2	5.50	5.00	110	5.46	5.00	109	70-130	<1	20
1,1,2,2-Tetrachloroethane	524.2	5.78	5.00	116	5.82	5.00	116	70-130	<1	20
Tetrachloroethene	524.2	5.57	5.00	111	5.31	5.00	106	70-130	5	20
Toluene	524.2	4.77	5.00	95	4.84	5.00	97	70-130	1	20
1,2,4-Trichlorobenzene	524.2	4.61	5.00	92	4.66	5.00	93	70-130	1	20
1,2,3-Trichlorobenzene	524.2	4.74	5.00	95	4.78	5.00	96	70-130	<1	20
1,1,2-Trichloroethane	524.2	5.07	5.00	101	5.05	5.00	101	70-130	<1	20
Trichloroethene	524.2	4.84	5.00	97	4.99	5.00	100	70-130	3	20
Trichlorofluoromethane	524.2	5.04	5.00	101	4.88	5.00	98	70-130	3	20
1,2,3-Trichloropropane	524.2	5.70	5.00	114	5.39	5.00	108	70-130	6	20
1,3,5-Trimethylbenzene	524.2	5.22	5.00	104	5.15	5.00	103	70-130	1	20
1,2,4-Trimethylbenzene	524.2	5.35	5.00	107	5.24	5.00	105	70-130	2	20
Vinyl Chloride	524.2	3.93	5.00	79	3.84	5.00	77	70-130	2	20
m,p-Xylenes	524.2	10.6	10.0	106	10.4	10.0	104	70-130	2	20
o-Xylene	524.2	4.99	5.00	100	5.03	5.00	101	70-130	<1	20

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dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Toluene-d8	Dibromofluoromethane
		85-122	87-121	80-116
CW3B-1022	R2210165-001	99	99	98
CW4B-1022	R2210165-002	96	97	97
MW17S-1022	R2210165-003	96	96	97
DUP1-1022	R2210165-004	98	99	100
CW4A-1022	R2210165-006	97	99	100
MW5D-1022	R2210165-007	99	101	99
MW5S-1022	R2210165-008	101	102	103
MW4D-1022	R2210165-009	100	101	101
MW3D-1022	R2210165-010	99	99	99
CW3A-1022	R2210165-014	98	99	99
MW11S-1022	R2210165-015	97	98	97
MW18S-1022	R2210165-016	97	99	98
MW18D-1022	R2210165-017	97	98	99
LS1-1022	R2210165-018	100	102	102
EB1-1022	R2210165-019	99	100	100
Trip Blank	R2210165-020	96	98	98
Method Blank	RQ2213514-04	98	99	99
Method Blank	RQ2213696-04	100	101	101
Lab Control Sample	RQ2213514-03	99	99	97
Lab Control Sample	RQ2213696-03	104	103	106
MW11S-1022 MS	RQ2213514-05	99	99	97
MW11S-1022 DMS	RQ2213514-06	98	98	96

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22
Date Received: 10/21/22
Date Analyzed: 10/30/22
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW11S-1022
Lab Code: R2210165-015
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2213514-05				Duplicate Matrix Spike RQ2213514-06				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
Acetone	200 U	993	1000	99	1020	1000	102	35-183	3	30	
Benzene	100 U	1040	1000	104	1050	1000	105	76-129	<1	30	
Bromodichloromethane	100 U	994	1000	99	1010	1000	101	78-133	2	30	
Bromoform	100 U	1170	1000	117	1170	1000	117	58-133	<1	30	
Bromomethane	100 U	1090	1000	109	1100	1000	110	10-184	<1	30	
2-Butanone (MEK)	200 U	842	1000	84	868	1000	87	61-137	3	30	
Carbon Disulfide	200 U	888	1000	89	912	1000	91	59-140	3	30	
Carbon Tetrachloride	100 U	1110	1000	111	1120	1000	112	65-135	1	30	
Chlorobenzene	100 U	997	1000	100	1020	1000	102	76-125	2	30	
Chloroethane	100 U	942	1000	94	955	1000	96	48-146	1	30	
Chloroform	100 U	923	1000	92	929	1000	93	75-130	<1	30	
Chloromethane	100 U	841	1000	84	829	1000	83	55-160	1	30	
Dibromochloromethane	100 U	1090	1000	109	1100	1000	110	72-128	1	30	
1,1-Dichloroethane	100 U	983	1000	98	996	1000	100	74-132	1	30	
1,2-Dibromoethane	100 U	1050	1000	105	1070	1000	107	67-127	2	30	
1,2-Dichloroethane	100 U	991	1000	99	1000	1000	100	68-130	1	30	
1,1-Dichloroethene	100 U	981	1000	98	986	1000	99	71-118	<1	30	
cis-1,2-Dichloroethene	230	1170	1000	94	1200	1000	97	77-127	2	30	
trans-1,2-Dichloroethene	100 U	963	1000	96	970	1000	97	73-118	<1	30	
1,2-Dichloropropane	100 U	1040	1000	104	1050	1000	105	79-124	<1	30	
cis-1,3-Dichloropropene	100 U	1010	1000	101	1020	1000	102	52-134	<1	30	
trans-1,3-Dichloropropene	100 U	1040	1000	104	1050	1000	105	71-133	1	30	
Ethylbenzene	100 U	1120	1000	112	1140	1000	114	72-134	2	30	
2-Hexanone	200 U	1030	1000	103	1050	1000	105	56-132	3	30	
Methylene Chloride	100 U	922	1000	92	938	1000	94	73-122	2	30	
4-Methyl-2-pentanone (MIBK)	200 U	990	1000	99	1020	1000	102	60-141	2	30	
Styrene	100 U	1140	1000	114	1160	1000	116	74-136	1	30	
1,1,2,2-Tetrachloroethane	100 U	973	1000	97	979	1000	98	72-122	<1	30	
Tetrachloroethene	100 U	1050	1000	105	1070	1000	107	72-125	2	30	
Toluene	100 U	1070	1000	107	1070	1000	107	79-119	<1	30	
1,1,1-Trichloroethane	100 U	1020	1000	102	1030	1000	103	74-127	1	30	
1,1,2-Trichloroethane	100 U	1050	1000	105	1050	1000	105	82-121	<1	30	
Trichloroethene	2700	3830	1000	113	3950	1000	125 *	74-122	3	30	

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/20/22
Date Received: 10/21/22
Date Analyzed: 10/30/22
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW11S-1022
Lab Code: R2210165-015
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2213514-05			Duplicate Matrix Spike RQ2213514-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Vinyl Chloride	100 U	792	1000	79	797	1000	80	74-159	<1	30
o-Xylene	100 U	1100	1000	110	1130	1000	113	79-123	2	30
m,p-Xylenes	100 U	2260	2000	113	2310	2000	115	80-126	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213514-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	10/30/22 00:02	
Benzene	1.0 U	1.0	1	10/30/22 00:02	
Bromodichloromethane	1.0 U	1.0	1	10/30/22 00:02	
Bromoform	1.0 U	1.0	1	10/30/22 00:02	
Bromomethane	1.0 U	1.0	1	10/30/22 00:02	
2-Butanone (MEK)	5.0 U	5.0	1	10/30/22 00:02	
Carbon Disulfide	1.0 U	1.0	1	10/30/22 00:02	
Carbon Tetrachloride	1.0 U	1.0	1	10/30/22 00:02	
Chlorobenzene	1.0 U	1.0	1	10/30/22 00:02	
Chloroethane	2.2	1.0	1	10/30/22 00:02	
Chloroform	1.0 U	1.0	1	10/30/22 00:02	
Chloromethane	1.0 U	1.0	1	10/30/22 00:02	
Dibromochloromethane	1.0 U	1.0	1	10/30/22 00:02	
1,2-Dibromoethane	1.0 U	1.0	1	10/30/22 00:02	
1,1-Dichloroethane	1.0 U	1.0	1	10/30/22 00:02	
1,2-Dichloroethane	1.0 U	1.0	1	10/30/22 00:02	
1,1-Dichloroethene	1.0 U	1.0	1	10/30/22 00:02	
cis-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 00:02	
trans-1,2-Dichloroethene	1.0 U	1.0	1	10/30/22 00:02	
1,2-Dichloropropane	1.0 U	1.0	1	10/30/22 00:02	
cis-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 00:02	
trans-1,3-Dichloropropene	1.0 U	1.0	1	10/30/22 00:02	
Ethylbenzene	1.0 U	1.0	1	10/30/22 00:02	
2-Hexanone	5.0 U	5.0	1	10/30/22 00:02	
Methylene Chloride	1.0 U	1.0	1	10/30/22 00:02	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	10/30/22 00:02	
Styrene	1.0 U	1.0	1	10/30/22 00:02	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	10/30/22 00:02	
Tetrachloroethene	1.0 U	1.0	1	10/30/22 00:02	
Toluene	1.0 U	1.0	1	10/30/22 00:02	
1,1,1-Trichloroethane	1.0 U	1.0	1	10/30/22 00:02	
1,1,2-Trichloroethane	1.0 U	1.0	1	10/30/22 00:02	
Trichloroethene	1.0 U	1.0	1	10/30/22 00:02	
Vinyl Chloride	1.0 U	1.0	1	10/30/22 00:02	
o-Xylene	1.0 U	1.0	1	10/30/22 00:02	
m,p-Xylenes	2.0 U	2.0	1	10/30/22 00:02	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213514-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	10/30/22 00:02	
Toluene-d8	99	87 - 121	10/30/22 00:02	
Dibromofluoromethane	99	80 - 116	10/30/22 00:02	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213696-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	1	11/02/22 11:50	
Benzene	1.0 U	1.0	1	11/02/22 11:50	
Bromodichloromethane	1.0 U	1.0	1	11/02/22 11:50	
Bromoform	1.0 U	1.0	1	11/02/22 11:50	
Bromomethane	1.0 U	1.0	1	11/02/22 11:50	
2-Butanone (MEK)	5.0 U	5.0	1	11/02/22 11:50	
Carbon Disulfide	1.0 U	1.0	1	11/02/22 11:50	
Carbon Tetrachloride	1.0 U	1.0	1	11/02/22 11:50	
Chlorobenzene	1.0 U	1.0	1	11/02/22 11:50	
Chloroethane	1.0 U	1.0	1	11/02/22 11:50	
Chloroform	1.0 U	1.0	1	11/02/22 11:50	
Chloromethane	1.0 U	1.0	1	11/02/22 11:50	
Dibromochloromethane	1.0 U	1.0	1	11/02/22 11:50	
1,1-Dichloroethane	1.0 U	1.0	1	11/02/22 11:50	
1,2-Dibromoethane	1.0 U	1.0	1	11/02/22 11:50	
1,2-Dichloroethane	1.0 U	1.0	1	11/02/22 11:50	
1,1-Dichloroethene	1.0 U	1.0	1	11/02/22 11:50	
cis-1,2-Dichloroethene	1.0 U	1.0	1	11/02/22 11:50	
trans-1,2-Dichloroethene	1.0 U	1.0	1	11/02/22 11:50	
1,2-Dichloropropane	1.0 U	1.0	1	11/02/22 11:50	
cis-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 11:50	
trans-1,3-Dichloropropene	1.0 U	1.0	1	11/02/22 11:50	
Ethylbenzene	1.0 U	1.0	1	11/02/22 11:50	
2-Hexanone	5.0 U	5.0	1	11/02/22 11:50	
Methylene Chloride	1.0 U	1.0	1	11/02/22 11:50	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	1	11/02/22 11:50	
Styrene	1.0 U	1.0	1	11/02/22 11:50	
1,1,1,2-Tetrachloroethane	1.0 U	1.0	1	11/02/22 11:50	
Tetrachloroethene	1.0 U	1.0	1	11/02/22 11:50	
Toluene	1.0 U	1.0	1	11/02/22 11:50	
1,1,1-Trichloroethane	1.0 U	1.0	1	11/02/22 11:50	
1,1,2-Trichloroethane	1.0 U	1.0	1	11/02/22 11:50	
Trichloroethene	1.0 U	1.0	1	11/02/22 11:50	
Vinyl Chloride	1.0 U	1.0	1	11/02/22 11:50	
o-Xylene	1.0 U	1.0	1	11/02/22 11:50	
m,p-Xylenes	2.0 U	2.0	1	11/02/22 11:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213696-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	11/02/22 11:50	
Toluene-d8	101	87 - 121	11/02/22 11:50	
Dibromofluoromethane	101	80 - 116	11/02/22 11:50	

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 10/29/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213514-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	21.1	20.0	105	40-161
Benzene	8260C	19.0	20.0	95	79-119
Bromodichloromethane	8260C	19.1	20.0	96	81-123
Bromoform	8260C	24.2	20.0	121	65-146
Bromomethane	8260C	20.2	20.0	101	42-166
2-Butanone (MEK)	8260C	20.2	20.0	101	61-137
Carbon Disulfide	8260C	19.4	20.0	97	66-128
Carbon Tetrachloride	8260C	18.5	20.0	92	70-127
Chlorobenzene	8260C	18.6	20.0	93	80-121
Chloroethane	8260C	16.9	20.0	84	62-131
Chloroform	8260C	17.0	20.0	85	79-120
Chloromethane	8260C	15.0	20.0	75	65-135
Dibromochloromethane	8260C	22.1	20.0	111	72-128
1,1-Dichloroethane	8260C	17.6	20.0	88	80-124
1,2-Dibromoethane	8260C	22.2	20.0	111	82-127
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,1-Dichloroethene	8260C	17.3	20.0	86	71-118
cis-1,2-Dichloroethene	8260C	17.6	20.0	88	80-121
trans-1,2-Dichloroethene	8260C	17.5	20.0	87	73-118
1,2-Dichloropropane	8260C	19.8	20.0	99	80-119
cis-1,3-Dichloropropene	8260C	20.7	20.0	103	77-122
trans-1,3-Dichloropropene	8260C	21.8	20.0	109	71-133
Ethylbenzene	8260C	19.8	20.0	99	76-120
2-Hexanone	8260C	23.6	20.0	118	63-124
Methylene Chloride	8260C	17.9	20.0	89	73-122
4-Methyl-2-pentanone (MIBK)	8260C	22.9	20.0	114	66-124
Styrene	8260C	21.2	20.0	106	80-124
1,1,2,2-Tetrachloroethane	8260C	21.5	20.0	108	78-126
Tetrachloroethene	8260C	19.0	20.0	95	72-125
Toluene	8260C	19.2	20.0	96	79-119
1,1,1-Trichloroethane	8260C	17.4	20.0	87	75-125
1,1,2-Trichloroethane	8260C	21.6	20.0	108	82-121
Trichloroethene	8260C	18.3	20.0	92	74-122

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 10/29/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213514-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260C	13.6	20.0	68 *	74-159
o-Xylene	8260C	20.3	20.0	101	79-123
m,p-Xylenes	8260C	40.4	40.0	101	80-126

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 11/02/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213696-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	19.0	20.0	95	40-161
Benzene	8260C	21.6	20.0	108	79-119
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	17.2	20.0	86	65-146
Bromomethane	8260C	19.5	20.0	97	42-166
2-Butanone (MEK)	8260C	18.2	20.0	91	61-137
Carbon Disulfide	8260C	18.6	20.0	93	66-128
Carbon Tetrachloride	8260C	20.8	20.0	104	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	19.5	20.0	97	62-131
Chloroform	8260C	21.7	20.0	109	79-120
Chloromethane	8260C	24.4	20.0	122	65-135
Dibromochloromethane	8260C	19.7	20.0	98	72-128
1,1-Dichloroethane	8260C	22.6	20.0	113	80-124
1,2-Dibromoethane	8260C	20.4	20.0	102	82-127
1,2-Dichloroethane	8260C	21.3	20.0	106	71-127
1,1-Dichloroethene	8260C	22.3	20.0	112	71-118
cis-1,2-Dichloroethene	8260C	21.8	20.0	109	80-121
trans-1,2-Dichloroethene	8260C	21.7	20.0	108	73-118
1,2-Dichloropropane	8260C	20.8	20.0	104	80-119
cis-1,3-Dichloropropene	8260C	21.2	20.0	106	77-122
trans-1,3-Dichloropropene	8260C	21.0	20.0	105	71-133
Ethylbenzene	8260C	21.2	20.0	106	76-120
2-Hexanone	8260C	18.1	20.0	90	63-124
Methylene Chloride	8260C	21.1	20.0	105	73-122
4-Methyl-2-pentanone (MIBK)	8260C	18.9	20.0	95	66-124
Styrene	8260C	22.6	20.0	113	80-124
1,1,2,2-Tetrachloroethane	8260C	18.8	20.0	94	78-126
Tetrachloroethene	8260C	22.1	20.0	110	72-125
Toluene	8260C	21.9	20.0	109	79-119
1,1,1-Trichloroethane	8260C	21.0	20.0	105	75-125
1,1,2-Trichloroethane	8260C	21.0	20.0	105	82-121
Trichloroethene	8260C	21.9	20.0	110	74-122

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 11/02/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213696-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260C	18.1	20.0	90	74-159
o-Xylene	8260C	21.6	20.0	108	79-123
m,p-Xylenes	8260C	43.8	40.0	109	80-126



Semivolatile Organic Compounds by GC/MS

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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165

SURROGATE RECOVERY SUMMARY

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM

Extraction Method: EPA 3535A

Sample Name	Lab Code	Tetrahydrofuran-d8 (SUR)
		64-124
CW3B-1022	R2210165-001	88
CW4B-1022	R2210165-002	87
MW17S-1022	R2210165-003	92
MW17S-1022 RE	R2210165-003	92
DUP1-1022	R2210165-004	90
DUP1-1022 RE	R2210165-004	93
CW4A-1022	R2210165-006	96
MW5D-1022	R2210165-007	89
MW5D-1022 RE	R2210165-007	90
Method Blank	RQ2213220-01	78
Method Blank	RQ2213398-01	81
Lab Control Sample	RQ2213220-02	79
Duplicate Lab Control Sample	RQ2213220-03	84
Lab Control Sample	RQ2213398-02	82
Duplicate Lab Control Sample	RQ2213398-03	73

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213220-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.031 J	0.040	0.027	1	10/26/22 17:16	10/25/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	78	64 - 124	10/26/22 17:16	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2213398-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.033 J	0.040	0.027	1	10/27/22 14:20	10/27/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	81	64 - 124	10/27/22 14:20	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 10/26/22

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2213220-02

Duplicate Lab Control Sample
RQ2213220-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dioxane	8270D SIM	8.04	10.0	80	8.40	10.0	84	58-124	4	30

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 10/27/22

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
1,4-Dioxane	8270D SIM	7.68	10.0	77	7.84	10.0	78	58-124	2	30



Metals

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2210165-MB

Service Request: R2210165
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	11/08/22 23:50	11/07/22	
Barium, Total	6010C	20 U	ug/L	20	1	11/08/22 23:50	11/07/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/08/22 23:50	11/07/22	
Calcium, Total	6010C	1000 U	ug/L	1000	1	11/08/22 23:50	11/07/22	
Chromium, Total	6010C	10 U	ug/L	10	1	11/08/22 23:50	11/07/22	
Copper, Total	6010C	20 U	ug/L	20	1	11/08/22 23:50	11/07/22	
Iron, Total	6010C	100 U	ug/L	100	1	11/08/22 23:50	11/07/22	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/08/22 23:50	11/07/22	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	11/08/22 23:50	11/07/22	
Manganese, Total	6010C	10 U	ug/L	10	1	11/08/22 23:50	11/07/22	
Nickel, Total	6010C	40 U	ug/L	40	1	11/08/22 23:50	11/07/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/08/22 23:50	11/07/22	
Selenium, Total	6010C	10 U	ug/L	10	1	11/08/22 23:50	11/07/22	
Sodium, Total	6010C	1000 U	ug/L	1000	1	11/08/22 23:50	11/07/22	
Zinc, Total	6010C	20 U	ug/L	20	1	11/08/22 23:50	11/07/22	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request:R2210165
Date Collected:10/20/22
Date Received:10/21/22
Date Analyzed:11/9/22

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW11S-1022
Lab Code: R2210165-015

Units:ug/L
Basis:NA

Analyte Name	Method	Matrix Spike R2210165-015MS				Duplicate Matrix Spike R2210165-015DMS				RPD	RPD Limit
		Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Arsenic, Total	6010C	10 U	40	40	100	42	40	105	75-125	5	20
Barium, Total	6010C	26	2110	2000	104	2110	2000	104	75-125	<1	20
Cadmium, Total	6010C	5.0 U	51.3	50.0	103	50.8	50.0	102	75-125	<1	20
Calcium, Total	6010C	57000	58900	2000	93 #	59200	2000	107 #	75-125	<1	20
Chromium, Total	6010C	10 U	206	200	103	205	200	103	75-125	<1	20
Copper, Total	6010C	20 U	252	250	101	251	250	100	75-125	<1	20
Iron, Total	6010C	150	1180	1000	103	1180	1000	103	75-125	<1	20
Lead, Total	6010C	5.0 U	516	500	103	515	500	103	75-125	<1	20
Magnesium, Total	6010C	35100	37100	2000	98 #	37300	2000	108 #	75-125	<1	20
Manganese, Total	6010C	814	1330	500	103	1330	500	103	75-125	<1	20
Nickel, Total	6010C	40 U	517	500	103	516	500	103	75-125	<1	20
Potassium, Total	6010C	2000 U	21000	20000	105	21000	20000	105	75-125	<1	20
Selenium, Total	6010C	10 U	970	1010	96	968	1010	96	75-125	<1	20
Sodium, Total	6010C	20700	40100	20000	97	39900	20000	96	75-125	<1	20
Zinc, Total	6010C	20 U	510	500	102	508	500	102	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 11/08/22

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2210165-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	38	40	95	80-120
Barium, Total	6010C	2100	2000	105	80-120
Cadmium, Total	6010C	51.7	50.0	103	80-120
Calcium, Total	6010C	2020	2000	101	80-120
Chromium, Total	6010C	206	200	103	80-120
Copper, Total	6010C	253	250	101	80-120
Iron, Total	6010C	1010	1000	101	80-120
Lead, Total	6010C	521	500	104	80-120
Magnesium, Total	6010C	2010	2000	100	80-120
Manganese, Total	6010C	508	500	102	80-120
Nickel, Total	6010C	527	500	105	80-120
Potassium, Total	6010C	18600	20000	93	80-120
Selenium, Total	6010C	958	1010	95	80-120
Sodium, Total	6010C	19900	20000	99	80-120
Zinc, Total	6010C	507	500	101	80-120



Subcontracted Analytical Parameters

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November 01, 2022

Analytical Report for Service Request No: R2210165

Janice Jaeger
ALS Environmental
1565 Jefferson Rd, Building 300
Suite 360
Rochester, NY 14623

RE: WAL - Semi-Annual Sampling

Dear Janice Jaeger,

Enclosed are the results of the sample(s) submitted to our laboratory October 21, 2022
For your reference, these analyses have been assigned our service request number **R2210165**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager



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Table of Contents

Acronyms

Qualifiers

State Certifications, Accreditations, And Licenses

Case Narrative

Chain of Custody

Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Received: 10/21/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level II requested by the client.

Sample Receipt:

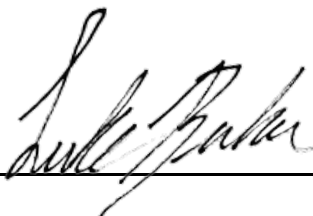
Six water samples were received for analysis at ALS Environmental on 10/21/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organic LC:

Method PFC/537M, 10/28/2022: The control criteria were exceeded for some compounds in the Continuing Calibration Verifications (CCV). The recoveries of the associated native analytes were within control criteria, which indicated the analysis was in control. No further corrective action was appropriate.

Method PFC/537M, 10/28/2022: The upper control criterion was exceeded for Perfluorodecane sulfonic acid (PFDS) in Laboratory Control Sample (LCS). The analyte in question was not detected in the associated field samples above the MRL. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

Approved by



Date

11/01/2022



Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Intra-Network Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Janice Jaeger

Project Name: WAL - Semi-Annual Sampling
Project Number:
Project Manager: Jon Brandes
Company: On-Site Technical Services, Inc.
QAP: LAB QAP

PFAS
PFC/537M

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample		Date Received	Send To	
				Date	Time			
R2210165-001	CW3B-1022	2	Water	10/18/22	1005	10/21/22	KELSO	IV
R2210165-002	CW4B-1022	2	Water	10/18/22	1255	10/21/22	KELSO	IV
R2210165-003	MW17S-1022	2	Water	10/18/22	1455	10/21/22	KELSO	IV
R2210165-004	DUP1-1022	2	Water	10/18/22	1505	10/21/22	KELSO	IV
R2210165-005	FB1-1022	1	Water	10/18/22	1505	10/21/22	KELSO	IV
R2210165-006	CW4A-1022	2	Water	10/19/22	0920	10/21/22	KELSO	IV

Folder Comments:
MRL U

Special Instructions/Comments NPDES pH Checked _____	Turnaround Requirements _____ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: <u>11/07/22</u>	Report Requirements _____ I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries _____ III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data PQL/MDL/J <u>Y</u> EDD <u>Y</u>	Invoice Information PO# 58R2210165 Bill to
---	---	--	--

Relinquished By: 10/24/22 14:00

Received By: 10/25/22 1020

Airbill Number: _____

Cooler Receipt and Preservation Form

Client AIS Rochester Service Request K22 B2210165
 Received: 10/25/22 Opened: 10/25/22 By: AP Unloaded: 10/25/22 By: AP

1. Samples were received via? **USPS** Fed Ex **UPS** **DHL** **PDX** **Courier** **Hand Delivered**
 2. Samples were received in: (circle) Cooler **Box** **Envelope** **Other** **NA**
 3. Were custody seals on coolers? **NA** X **N** If yes, how many and where? 1 piece
 If present, were custody seals intact? Y **N** If present, were they signed and dated? Y **N**

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with 'X'	PM Notified if out of temp	Tracking Number NA	Filed
—	2.0	1P01	10F2			57790451 3270	
—	1.8	1P01	20F2			" " 3281	

4. Was a Temperature Blank present in cooler? **NA** **Y** N If yes, note the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 5. Were samples received within the method specified temperature ranges? **NA** Y **N**
 If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA **Y** **N**

- If applicable, tissue samples were received: **Frozen** **Partially Thawed** **Thawed**
 6. Packing material: **Inserts** Baggies **Bubble Wrap** **Gel Packs** Wet Ice **Dry Ice** **Sleeves** Paper
 7. Were custody papers properly filled out (ink, signed, etc.)? **NA** Y **N**
 8. Were samples received in good condition (unbroken) **NA** Y **N**
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? **NA** Y **N**
 10. Did all sample labels and tags agree with custody papers? **NA** Y **N**
 11. Were appropriate bottles/containers and volumes received for the tests indicated? **NA** Y **N**
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA **Y** **N**
 13. Were VOA vials received without headspace? Indicate in the table below. NA **Y** **N**
 14. Was C12/Res negative? NA **Y** **N**
 15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA **Y** **N** Under filled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Brake	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Per and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 10:05
Date Received: 10/21/22 12:20

Sample Name: CW3B-1022
Lab Code: R2210165-001

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFASs)							
Perfluorobutane sulfonic acid (PFBS)	1.9 J	4.5	0.28	1	10/28/22 01:43	10/26/22	
Perfluorohexane sulfonic acid (PFHxS)	2.6 J	4.5	1.3	1	10/28/22 01:43	10/26/22	
Perfluoroheptane sulfonic acid (PFHpS)	4.5 U	4.5	0.44	1	10/28/22 01:43	10/26/22	
Perfluorooctane sulfonic acid (PFOS)	9.2	1.8	0.44	1	10/28/22 01:43	10/26/22	
Perfluorodecane sulfonic acid (PFDS)	4.5 U	4.5	0.30	1	10/28/22 01:43	10/26/22	*
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	3.5 J	4.5	0.40	1	10/28/22 01:43	10/26/22	
Perfluoropentanoic acid (PFPeA)	2.4 J	4.5	1.7	1	10/28/22 01:43	10/26/22	
Perfluorohexanoic acid (PFHxA)	9.2 U	9.2	8.8	1	10/28/22 01:43	10/26/22	
Perfluoroheptanoic acid (PFHpA)	2.6 J	4.5	0.63	1	10/28/22 01:43	10/26/22	
Perfluorooctanoic acid (PFOA)	6.1	1.8	0.35	1	10/28/22 01:43	10/26/22	
Perfluorononanoic acid (PFNA)	4.5 U	4.5	1.1	1	10/28/22 01:43	10/26/22	
Perfluorodecanoic acid (PFDA)	4.5 U	4.5	1.2	1	10/28/22 01:43	10/26/22	
Perfluoroundecanoic acid (PFUnDA)	4.5 U	4.5	1.5	1	10/28/22 01:43	10/26/22	
Perfluorododecanoic acid (PFDOA)	4.5 U	4.5	1.3	1	10/28/22 01:43	10/26/22	
Perfluorotridecanoic acid (PFTrDA)	4.5 U	4.5	1.3	1	10/28/22 01:43	10/26/22	
Perfluorotetradecanoic acid (PFTDA)	4.5 U	4.5	2.0	1	10/28/22 01:43	10/26/22	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (PFOSAm)	4.5 U	4.5	0.52	1	10/28/22 01:43	10/26/22	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	4.5 U	4.5	1.4	1	10/28/22 01:43	10/26/22	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	4.5 U	4.5	0.50	1	10/28/22 01:43	10/26/22	
Fluorotelomer Sulfonic Acids (FTSAs)							
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.5 U	4.5	0.55	1	10/28/22 01:43	10/26/22	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.5 U	4.5	0.15	1	10/28/22 01:43	10/26/22	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 10:05
Date Received: 10/21/22 12:20

Sample Name: CW3B-1022
Lab Code: R2210165-001

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	76	20 - 109	10/28/22 01:43	
18O2-PFHxS	61	26 - 122	10/28/22 01:43	
13C4-PFOS	72	25 - 121	10/28/22 01:43	
13C4-PFBA	88	27 - 124	10/28/22 01:43	
13C5-PFPeA	92	27 - 138	10/28/22 01:43	
13C2-PFHxA	83	28 - 132	10/28/22 01:43	
13C4-PFHpA	80	19 - 139	10/28/22 01:43	
13C4-PFOA	68	22 - 130	10/28/22 01:43	
13C5-PFNA	78	20 - 127	10/28/22 01:43	
13C2-PFDA	63	24 - 125	10/28/22 01:43	
13C2-PFUnDA	67	22 - 125	10/28/22 01:43	
13C2-PFDoDA	70	19 - 122	10/28/22 01:43	
13C2-PFTeDA	70	13 - 124	10/28/22 01:43	
13C8-FOSA	82	18 - 109	10/28/22 01:43	
D3-MeFOSAA	75	9 - 123	10/28/22 01:43	
D5-EtFOSAA	66	12 - 126	10/28/22 01:43	
13C2-6:2 FTS	103	10 - 226	10/28/22 01:43	
13C2-8:2 FTS	80	10 - 202	10/28/22 01:43	

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 12:55
Date Received: 10/21/22 12:20

Sample Name: CW4B-1022
Lab Code: R2210165-002

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFASs)							
Perfluorobutane sulfonic acid (PFBS)	1.7 J	4.5	0.28	1	10/28/22 01:54	10/26/22	
Perfluorohexane sulfonic acid (PFHxS)	3.2 J	4.5	1.3	1	10/28/22 01:54	10/26/22	
Perfluoroheptane sulfonic acid (PFHpS)	4.5 U	4.5	0.44	1	10/28/22 01:54	10/26/22	
Perfluorooctane sulfonic acid (PFOS)	5.8	1.8	0.44	1	10/28/22 01:54	10/26/22	
Perfluorodecane sulfonic acid (PFDS)	4.5 U	4.5	0.30	1	10/28/22 01:54	10/26/22	*
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	6.1	4.5	0.40	1	10/28/22 01:54	10/26/22	
Perfluoropentanoic acid (PFPeA)	4.5 U	4.5	1.7	1	10/28/22 01:54	10/26/22	
Perfluorohexanoic acid (PFHxA)	9.2 U	9.2	8.8	1	10/28/22 01:54	10/26/22	
Perfluoroheptanoic acid (PFHpA)	4.5 U	4.5	0.63	1	10/28/22 01:54	10/26/22	
Perfluorooctanoic acid (PFOA)	6.3	1.8	0.35	1	10/28/22 01:54	10/26/22	
Perfluorononanoic acid (PFNA)	4.5 U	4.5	1.1	1	10/28/22 01:54	10/26/22	
Perfluorodecanoic acid (PFDA)	4.5 U	4.5	1.2	1	10/28/22 01:54	10/26/22	
Perfluoroundecanoic acid (PFUnDA)	4.5 U	4.5	1.5	1	10/28/22 01:54	10/26/22	
Perfluorododecanoic acid (PFDOA)	4.5 U	4.5	1.3	1	10/28/22 01:54	10/26/22	
Perfluorotridecanoic acid (PFTrDA)	4.5 U	4.5	1.3	1	10/28/22 01:54	10/26/22	
Perfluorotetradecanoic acid (PFTDA)	4.5 U	4.5	2.0	1	10/28/22 01:54	10/26/22	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (PFOSAm)	4.5 U	4.5	0.52	1	10/28/22 01:54	10/26/22	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	4.5 U	4.5	1.4	1	10/28/22 01:54	10/26/22	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	4.5 U	4.5	0.50	1	10/28/22 01:54	10/26/22	
Fluorotelomer Sulfonic Acids (FTSAs)							
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	1.7 J	4.5	0.55	1	10/28/22 01:54	10/26/22	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.5 U	4.5	0.15	1	10/28/22 01:54	10/26/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 12:55
Date Received: 10/21/22 12:20

Sample Name: CW4B-1022
Lab Code: R2210165-002

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	78	20 - 109	10/28/22 01:54	
18O2-PFHxS	66	26 - 122	10/28/22 01:54	
13C4-PFOS	73	25 - 121	10/28/22 01:54	
13C4-PFBA	96	27 - 124	10/28/22 01:54	
13C5-PFPeA	96	27 - 138	10/28/22 01:54	
13C2-PFHxA	87	28 - 132	10/28/22 01:54	
13C4-PFHpA	97	19 - 139	10/28/22 01:54	
13C4-PFOA	73	22 - 130	10/28/22 01:54	
13C5-PFNA	81	20 - 127	10/28/22 01:54	
13C2-PFDA	71	24 - 125	10/28/22 01:54	
13C2-PFUnDA	73	22 - 125	10/28/22 01:54	
13C2-PFDoDA	74	19 - 122	10/28/22 01:54	
13C2-PFTeDA	79	13 - 124	10/28/22 01:54	
13C8-FOSA	86	18 - 109	10/28/22 01:54	
D3-MeFOSAA	77	9 - 123	10/28/22 01:54	
D5-EtFOSAA	71	12 - 126	10/28/22 01:54	
13C2-6:2 FTS	109	10 - 226	10/28/22 01:54	
13C2-8:2 FTS	79	10 - 202	10/28/22 01:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 14:55
Date Received: 10/21/22 12:20

Sample Name: MW17S-1022
Lab Code: R2210165-003

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFASs)							
Perfluorobutane sulfonic acid (PFBS)	1.6 J	4.6	0.28	1	10/28/22 02:04	10/26/22	
Perfluorohexane sulfonic acid (PFHxS)	2.7 J	4.6	1.3	1	10/28/22 02:04	10/26/22	
Perfluoroheptane sulfonic acid (PFHpS)	4.6 U	4.6	0.44	1	10/28/22 02:04	10/26/22	
Perfluorooctane sulfonic acid (PFOS)	4.4	1.9	0.44	1	10/28/22 02:04	10/26/22	
Perfluorodecane sulfonic acid (PFDS)	4.6 U	4.6	0.30	1	10/28/22 02:04	10/26/22	*
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	7.2	4.6	0.40	1	10/28/22 02:04	10/26/22	
Perfluoropentanoic acid (PFPeA)	3.5 J	4.6	1.7	1	10/28/22 02:04	10/26/22	
Perfluorohexanoic acid (PFHxA)	9.3 U	9.3	8.8	1	10/28/22 02:04	10/26/22	
Perfluoroheptanoic acid (PFHpA)	6.5	4.6	0.63	1	10/28/22 02:04	10/26/22	
Perfluorooctanoic acid (PFOA)	40	1.9	0.35	1	10/28/22 02:04	10/26/22	
Perfluorononanoic acid (PFNA)	1.7 J	4.6	1.1	1	10/28/22 02:04	10/26/22	
Perfluorodecanoic acid (PFDA)	4.6 U	4.6	1.2	1	10/28/22 02:04	10/26/22	
Perfluoroundecanoic acid (PFUnDA)	4.6 U	4.6	1.5	1	10/28/22 02:04	10/26/22	
Perfluorododecanoic acid (PFDOA)	4.6 U	4.6	1.3	1	10/28/22 02:04	10/26/22	
Perfluorotridecanoic acid (PFTrDA)	4.6 U	4.6	1.3	1	10/28/22 02:04	10/26/22	
Perfluorotetradecanoic acid (PFTDA)	4.6 U	4.6	2.0	1	10/28/22 02:04	10/26/22	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (PFOSAm)	4.6 U	4.6	0.52	1	10/28/22 02:04	10/26/22	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	4.6 U	4.6	1.4	1	10/28/22 02:04	10/26/22	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	4.6 U	4.6	0.50	1	10/28/22 02:04	10/26/22	
Fluorotelomer Sulfonic Acids (FTSAs)							
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.6 U	4.6	0.55	1	10/28/22 02:04	10/26/22	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.6 U	4.6	0.15	1	10/28/22 02:04	10/26/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 14:55
Date Received: 10/21/22 12:20

Sample Name: MW17S-1022
Lab Code: R2210165-003

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	85	20 - 109	10/28/22 02:04	
18O2-PFHxS	67	26 - 122	10/28/22 02:04	
13C4-PFOS	81	25 - 121	10/28/22 02:04	
13C4-PFBA	99	27 - 124	10/28/22 02:04	
13C5-PFPeA	102	27 - 138	10/28/22 02:04	
13C2-PFHxA	95	28 - 132	10/28/22 02:04	
13C4-PFHpA	93	19 - 139	10/28/22 02:04	
13C4-PFOA	79	22 - 130	10/28/22 02:04	
13C5-PFNA	86	20 - 127	10/28/22 02:04	
13C2-PFDA	70	24 - 125	10/28/22 02:04	
13C2-PFUnDA	74	22 - 125	10/28/22 02:04	
13C2-PFDoDA	73	19 - 122	10/28/22 02:04	
13C2-PFTeDA	74	13 - 124	10/28/22 02:04	
13C8-FOSA	87	18 - 109	10/28/22 02:04	
D3-MeFOSAA	79	9 - 123	10/28/22 02:04	
D5-EtFOSAA	78	12 - 126	10/28/22 02:04	
13C2-6:2 FTS	134	10 - 226	10/28/22 02:04	
13C2-8:2 FTS	90	10 - 202	10/28/22 02:04	

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: DUP1-1022
Lab Code: R2210165-004

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFASs)							
Perfluorobutane sulfonic acid (PFBS)	1.8 J	4.5	0.28	1	10/28/22 02:14	10/26/22	
Perfluorohexane sulfonic acid (PFHxS)	3.0 J	4.5	1.3	1	10/28/22 02:14	10/26/22	
Perfluoroheptane sulfonic acid (PFHpS)	4.5 U	4.5	0.44	1	10/28/22 02:14	10/26/22	
Perfluorooctane sulfonic acid (PFOS)	4.3	1.8	0.44	1	10/28/22 02:14	10/26/22	
Perfluorodecane sulfonic acid (PFDS)	0.62 J	4.5	0.30	1	10/28/22 02:14	10/26/22	*
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	7.1	4.5	0.40	1	10/28/22 02:14	10/26/22	
Perfluoropentanoic acid (PFPeA)	3.9 J	4.5	1.7	1	10/28/22 02:14	10/26/22	
Perfluorohexanoic acid (PFHxA)	9.2 U	9.2	8.8	1	10/28/22 02:14	10/26/22	
Perfluoroheptanoic acid (PFHpA)	7.2	4.5	0.63	1	10/28/22 02:14	10/26/22	
Perfluorooctanoic acid (PFOA)	39	1.8	0.35	1	10/28/22 02:14	10/26/22	
Perfluorononanoic acid (PFNA)	1.5 J	4.5	1.1	1	10/28/22 02:14	10/26/22	
Perfluorodecanoic acid (PFDA)	4.5 U	4.5	1.2	1	10/28/22 02:14	10/26/22	
Perfluoroundecanoic acid (PFUnDA)	4.5 U	4.5	1.5	1	10/28/22 02:14	10/26/22	
Perfluorododecanoic acid (PFDOA)	4.5 U	4.5	1.3	1	10/28/22 02:14	10/26/22	
Perfluorotridecanoic acid (PFTrDA)	4.5 U	4.5	1.3	1	10/28/22 02:14	10/26/22	
Perfluorotetradecanoic acid (PFTDA)	4.5 U	4.5	2.0	1	10/28/22 02:14	10/26/22	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (PFOSAm)	4.5 U	4.5	0.52	1	10/28/22 02:14	10/26/22	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	4.5 U	4.5	1.4	1	10/28/22 02:14	10/26/22	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	4.5 U	4.5	0.50	1	10/28/22 02:14	10/26/22	
Fluorotelomer Sulfonic Acids (FTSAs)							
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.96 J	4.5	0.55	1	10/28/22 02:14	10/26/22	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.5 U	4.5	0.15	1	10/28/22 02:14	10/26/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: DUP1-1022
Lab Code: R2210165-004

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	95	20 - 109	10/28/22 02:14	
18O2-PFHxS	72	26 - 122	10/28/22 02:14	
13C4-PFOS	73	25 - 121	10/28/22 02:14	
13C4-PFBA	120	27 - 124	10/28/22 02:14	
13C5-PFPeA	116	27 - 138	10/28/22 02:14	
13C2-PFHxA	110	28 - 132	10/28/22 02:14	
13C4-PFHpA	97	19 - 139	10/28/22 02:14	
13C4-PFOA	75	22 - 130	10/28/22 02:14	
13C5-PFNA	79	20 - 127	10/28/22 02:14	
13C2-PFDA	68	24 - 125	10/28/22 02:14	
13C2-PFUnDA	74	22 - 125	10/28/22 02:14	
13C2-PFDoDA	75	19 - 122	10/28/22 02:14	
13C2-PFTeDA	83	13 - 124	10/28/22 02:14	
13C8-FOSA	84	18 - 109	10/28/22 02:14	
D3-MeFOSAA	71	9 - 123	10/28/22 02:14	
D5-EtFOSAA	75	12 - 126	10/28/22 02:14	
13C2-6:2 FTS	111	10 - 226	10/28/22 02:14	
13C2-8:2 FTS	80	10 - 202	10/28/22 02:14	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: FB1-1022
Lab Code: R2210165-005

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFASs)							
Perfluorobutane sulfonic acid (PFBS)	4.8 U	4.8	0.28	1	10/28/22 02:25	10/26/22	
Perfluorohexane sulfonic acid (PFHxS)	4.8 U	4.8	1.3	1	10/28/22 02:25	10/26/22	
Perfluoroheptane sulfonic acid (PFHpS)	4.8 U	4.8	0.44	1	10/28/22 02:25	10/26/22	
Perfluorooctane sulfonic acid (PFOS)	1.9 U	1.9	0.44	1	10/28/22 02:25	10/26/22	
Perfluorodecane sulfonic acid (PFDS)	0.57 J	4.8	0.30	1	10/28/22 02:25	10/26/22	*
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	4.8 U	4.8	0.40	1	10/28/22 02:25	10/26/22	
Perfluoropentanoic acid (PFPeA)	4.8 U	4.8	1.7	1	10/28/22 02:25	10/26/22	
Perfluorohexanoic acid (PFHxA)	9.6 U	9.6	8.8	1	10/28/22 02:25	10/26/22	
Perfluoroheptanoic acid (PFHpA)	4.8 U	4.8	0.63	1	10/28/22 02:25	10/26/22	
Perfluorooctanoic acid (PFOA)	1.9 U	1.9	0.35	1	10/28/22 02:25	10/26/22	
Perfluorononanoic acid (PFNA)	4.8 U	4.8	1.1	1	10/28/22 02:25	10/26/22	
Perfluorodecanoic acid (PFDA)	4.8 U	4.8	1.2	1	10/28/22 02:25	10/26/22	
Perfluoroundecanoic acid (PFUnDA)	4.8 U	4.8	1.5	1	10/28/22 02:25	10/26/22	
Perfluorododecanoic acid (PFDOA)	4.8 U	4.8	1.3	1	10/28/22 02:25	10/26/22	
Perfluorotridecanoic acid (PFTrDA)	4.8 U	4.8	1.3	1	10/28/22 02:25	10/26/22	
Perfluorotetradecanoic acid (PFTDA)	4.8 U	4.8	2.0	1	10/28/22 02:25	10/26/22	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (PFOSAm)	4.8 U	4.8	0.52	1	10/28/22 02:25	10/26/22	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	4.8 U	4.8	1.4	1	10/28/22 02:25	10/26/22	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	4.8 U	4.8	0.50	1	10/28/22 02:25	10/26/22	
Fluorotelomer Sulfonic Acids (FTSAs)							
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.70 J	4.8	0.55	1	10/28/22 02:25	10/26/22	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.8 U	4.8	0.15	1	10/28/22 02:25	10/26/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/18/22 15:05
Date Received: 10/21/22 12:20

Sample Name: FB1-1022
Lab Code: R2210165-005

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	70	20 - 109	10/28/22 02:25	
18O2-PFHxS	66	26 - 122	10/28/22 02:25	
13C4-PFOS	68	25 - 121	10/28/22 02:25	
13C4-PFBA	93	27 - 124	10/28/22 02:25	
13C5-PFPeA	92	27 - 138	10/28/22 02:25	
13C2-PFHxA	80	28 - 132	10/28/22 02:25	
13C4-PFHpA	92	19 - 139	10/28/22 02:25	
13C4-PFOA	69	22 - 130	10/28/22 02:25	
13C5-PFNA	72	20 - 127	10/28/22 02:25	
13C2-PFDA	70	24 - 125	10/28/22 02:25	
13C2-PFUnDA	72	22 - 125	10/28/22 02:25	
13C2-PFDoDA	75	19 - 122	10/28/22 02:25	
13C2-PFTeDA	70	13 - 124	10/28/22 02:25	
13C8-FOSA	75	18 - 109	10/28/22 02:25	
D3-MeFOSAA	69	9 - 123	10/28/22 02:25	
D5-EtFOSAA	68	12 - 126	10/28/22 02:25	
13C2-6:2 FTS	101	10 - 226	10/28/22 02:25	
13C2-8:2 FTS	73	10 - 202	10/28/22 02:25	

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 09:20
Date Received: 10/21/22 12:20

Sample Name: CW4A-1022
Lab Code: R2210165-006

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFASs)							
Perfluorobutane sulfonic acid (PFBS)	1.4 J	4.5	0.28	1	10/28/22 02:35	10/26/22	
Perfluorohexane sulfonic acid (PFHxS)	1.4 J	4.5	1.3	1	10/28/22 02:35	10/26/22	
Perfluoroheptane sulfonic acid (PFHpS)	4.5 U	4.5	0.44	1	10/28/22 02:35	10/26/22	
Perfluorooctane sulfonic acid (PFOS)	6.4	1.8	0.44	1	10/28/22 02:35	10/26/22	
Perfluorodecane sulfonic acid (PFDS)	4.5 U	4.5	0.30	1	10/28/22 02:35	10/26/22	*
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	5.6	4.5	0.40	1	10/28/22 02:35	10/26/22	
Perfluoropentanoic acid (PFPeA)	4.5 U	4.5	1.7	1	10/28/22 02:35	10/26/22	
Perfluorohexanoic acid (PFHxA)	9.2 U	9.2	8.8	1	10/28/22 02:35	10/26/22	
Perfluoroheptanoic acid (PFHpA)	1.1 J	4.5	0.63	1	10/28/22 02:35	10/26/22	
Perfluorooctanoic acid (PFOA)	6.7	1.8	0.35	1	10/28/22 02:35	10/26/22	
Perfluorononanoic acid (PFNA)	4.5 U	4.5	1.1	1	10/28/22 02:35	10/26/22	
Perfluorodecanoic acid (PFDA)	4.5 U	4.5	1.2	1	10/28/22 02:35	10/26/22	
Perfluoroundecanoic acid (PFUnDA)	4.5 U	4.5	1.5	1	10/28/22 02:35	10/26/22	
Perfluorododecanoic acid (PFDOA)	4.5 U	4.5	1.3	1	10/28/22 02:35	10/26/22	
Perfluorotridecanoic acid (PFTrDA)	4.5 U	4.5	1.3	1	10/28/22 02:35	10/26/22	
Perfluorotetradecanoic acid (PFTDA)	4.5 U	4.5	2.0	1	10/28/22 02:35	10/26/22	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (PFOSAm)	4.5 U	4.5	0.52	1	10/28/22 02:35	10/26/22	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	4.5 U	4.5	1.4	1	10/28/22 02:35	10/26/22	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	4.5 U	4.5	0.50	1	10/28/22 02:35	10/26/22	
Fluorotelomer Sulfonic Acids (FTSAs)							
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.5 U	4.5	0.55	1	10/28/22 02:35	10/26/22	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.5 U	4.5	0.15	1	10/28/22 02:35	10/26/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: 10/19/22 09:20
Date Received: 10/21/22 12:20

Sample Name: CW4A-1022
Lab Code: R2210165-006

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	65	20 - 109	10/28/22 02:35	
18O2-PFHxS	52	26 - 122	10/28/22 02:35	
13C4-PFOS	60	25 - 121	10/28/22 02:35	
13C4-PFBA	79	27 - 124	10/28/22 02:35	
13C5-PFPeA	80	27 - 138	10/28/22 02:35	
13C2-PFHxA	77	28 - 132	10/28/22 02:35	
13C4-PFHpA	78	19 - 139	10/28/22 02:35	
13C4-PFOA	64	22 - 130	10/28/22 02:35	
13C5-PFNA	71	20 - 127	10/28/22 02:35	
13C2-PFDA	64	24 - 125	10/28/22 02:35	
13C2-PFUnDA	66	22 - 125	10/28/22 02:35	
13C2-PFDoDA	69	19 - 122	10/28/22 02:35	
13C2-PFTeDA	71	13 - 124	10/28/22 02:35	
13C8-FOSA	79	18 - 109	10/28/22 02:35	
D3-MeFOSAA	72	9 - 123	10/28/22 02:35	
D5-EtFOSAA	66	12 - 126	10/28/22 02:35	
13C2-6:2 FTS	111	10 - 226	10/28/22 02:35	
13C2-8:2 FTS	73	10 - 202	10/28/22 02:35	

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2218596-04

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFASs)							
Perfluorobutane sulfonic acid (PFBS)	5.0 U	5.0	0.28	1	10/27/22 23:06	10/26/22	
Perfluorohexane sulfonic acid (PFHxS)	5.0 U	5.0	1.3	1	10/27/22 23:06	10/26/22	
Perfluoroheptane sulfonic acid (PFHpS)	5.0 U	5.0	0.44	1	10/27/22 23:06	10/26/22	
Perfluorooctane sulfonic acid (PFOS)	2.0 U	2.0	0.44	1	10/27/22 23:06	10/26/22	
Perfluorodecane sulfonic acid (PFDS)	0.81 J	5.0	0.30	1	10/27/22 23:06	10/26/22	
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	5.0 U	5.0	0.40	1	10/27/22 23:06	10/26/22	
Perfluoropentanoic acid (PFPeA)	5.0 U	5.0	1.7	1	10/27/22 23:06	10/26/22	
Perfluorohexanoic acid (PFHxA)	10 U	10	8.8	1	10/27/22 23:06	10/26/22	
Perfluoroheptanoic acid (PFHpA)	5.0 U	5.0	0.63	1	10/27/22 23:06	10/26/22	
Perfluorooctanoic acid (PFOA)	2.0 U	2.0	0.35	1	10/27/22 23:06	10/26/22	
Perfluorononanoic acid (PFNA)	5.0 U	5.0	1.1	1	10/27/22 23:06	10/26/22	
Perfluorodecanoic acid (PFDA)	5.0 U	5.0	1.2	1	10/27/22 23:06	10/26/22	
Perfluoroundecanoic acid (PFUnDA)	5.0 U	5.0	1.5	1	10/27/22 23:06	10/26/22	
Perfluorododecanoic acid (PFDOA)	5.0 U	5.0	1.3	1	10/27/22 23:06	10/26/22	
Perfluorotridecanoic acid (PFTrDA)	5.0 U	5.0	1.3	1	10/27/22 23:06	10/26/22	
Perfluorotetradecanoic acid (PFTDA)	5.0 U	5.0	2.0	1	10/27/22 23:06	10/26/22	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (PFOSAm)	5.0 U	5.0	0.52	1	10/27/22 23:06	10/26/22	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	5.0 U	5.0	1.4	1	10/27/22 23:06	10/26/22	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	5.0 U	5.0	0.50	1	10/27/22 23:06	10/26/22	
Fluorotelomer Sulfonic Acids (FTSAs)							
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	5.0 U	5.0	0.55	1	10/27/22 23:06	10/26/22	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	5.0 U	5.0	0.15	1	10/27/22 23:06	10/26/22	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2218596-04

Units: ng/L
Basis: NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	69	20 - 109	10/27/22 23:06	
18O2-PFHxS	66	26 - 122	10/27/22 23:06	
13C4-PFOS	73	25 - 121	10/27/22 23:06	
13C4-PFBA	64	27 - 124	10/27/22 23:06	
13C5-PFPeA	86	27 - 138	10/27/22 23:06	
13C2-PFHxA	72	28 - 132	10/27/22 23:06	
13C4-PFHpA	77	19 - 139	10/27/22 23:06	
13C4-PFOA	68	22 - 130	10/27/22 23:06	
13C5-PFNA	76	20 - 127	10/27/22 23:06	
13C2-PFDA	71	24 - 125	10/27/22 23:06	
13C2-PFUnDA	74	22 - 125	10/27/22 23:06	
13C2-PFDoDA	88	19 - 122	10/27/22 23:06	
13C2-PFTeDA	81	13 - 124	10/27/22 23:06	
13C8-FOSA	83	18 - 109	10/27/22 23:06	
D3-MeFOSAA	86	9 - 123	10/27/22 23:06	
D5-EtFOSAA	82	12 - 126	10/27/22 23:06	
13C2-6:2 FTS	79	10 - 226	10/27/22 23:06	
13C2-8:2 FTS	64	10 - 202	10/27/22 23:06	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/
Sample Matrix: Water

Service Request: R2210165

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	CW3B-1022	CW4B-1022	MW17S-1022
		R2210165-001	R2210165-002	R2210165-003
13C3-PFBS	20-109	76	78	85
18O2-PFHxS	26-122	61	66	67
13C4-PFOS	25-121	72	73	81
13C4-PFBA	27-124	88	96	99
13C5-PFPeA	27-138	92	96	102
13C2-PFHxA	28-132	83	87	95
13C4-PFHpA	19-139	80	97	93
13C4-PFOA	22-130	68	73	79
13C5-PFNA	20-127	78	81	86
13C2-PFDA	24-125	63	71	70
13C2-PFUnDA	22-125	67	73	74
13C2-PFDoDA	19-122	70	74	73
13C2-PFTeDA	13-124	70	79	74
13C8-FOSA	18-109	82	86	87
D3-MeFOSAA	9-123	75	77	79
D5-EtFOSAA	12-126	66	71	78
13C2-6:2 FTS	10-226	103	109	134
13C2-8:2 FTS	10-202	80	79	90

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not acceptable.

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/
Sample Matrix: Water

Service Request: R2210165

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	DUP1-1022	FB1-1022	CW4A-1022
		R2210165-004	R2210165-005	R2210165-006
13C3-PFBS	20-109	95	70	65
18O2-PFHxS	26-122	72	66	52
13C4-PFOS	25-121	73	68	60
13C4-PFBA	27-124	120	93	79
13C5-PFPeA	27-138	116	92	80
13C2-PFHxA	28-132	110	80	77
13C4-PFHpA	19-139	97	92	78
13C4-PFOA	22-130	75	69	64
13C5-PFNA	20-127	79	72	71
13C2-PFDA	24-125	68	70	64
13C2-PFUnDA	22-125	74	72	66
13C2-PFDoDA	19-122	75	75	69
13C2-PFTeDA	13-124	83	70	71
13C8-FOSA	18-109	84	75	79
D3-MeFOSAA	9-123	71	69	72
D5-EtFOSAA	12-126	75	68	66
13C2-6:2 FTS	10-226	111	101	111
13C2-8:2 FTS	10-202	80	73	73

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not acceptable.

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/
Sample Matrix: Water

Service Request: R2210165

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	Method Blank	Lab Control Sample
		KQ2218596-04	KQ2218596-03
13C3-PFBS	20-109	69	70
18O2-PFHxS	26-122	66	61
13C4-PFOS	25-121	73	68
13C4-PFBA	27-124	64	64
13C5-PFPeA	27-138	86	88
13C2-PFHxA	28-132	72	74
13C4-PFHpA	19-139	77	89
13C4-PFOA	22-130	68	68
13C5-PFNA	20-127	76	75
13C2-PFDA	24-125	71	73
13C2-PFUnDA	22-125	74	75
13C2-PFDoDA	19-122	88	88
13C2-PFTeDA	13-124	81	87
13C8-FOSA	18-109	83	83
D3-MeFOSAA	9-123	86	88
D5-EtFOSAA	12-126	82	83
13C2-6:2 FTS	10-226	79	92
13C2-8:2 FTS	10-202	64	78

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not acceptable.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request:R2210165
Date Analyzed:10/27/22 22:45

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS06\Data\221027_B1\221027_054
Instrument ID: K-LCMS-06
Analysis Method: PFC/537M

Lab Code:KQ2219063-01
Analysis Lot:783275
Signal ID:1

13C7-PFUnDA		
	Area	RT
Result ==>	2,818,799	5.354
Upper Limit ==>	5,637,598	6.35
Lower Limit ==>	1,409,400	4.35

Associated Analyses

Continuing Calibration Blank	KQ2219063-02	2394334	5.359
Method Blank	KQ2218596-04	2698032	5.358
Lab Control Sample	KQ2218596-03	2653605	5.356
CW3B-1022	R2210165-001	2481727	5.360
CW4B-1022	R2210165-002	2389500	5.354
MW17S-1022	R2210165-003	2253297	5.360
DUP1-1022	R2210165-004	1744965	5.356
FB1-1022	R2210165-005	2488678	5.356
CW4A-1022	R2210165-006	2880751	5.353

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 10/27/22
Date Extracted: 10/26/22

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Units: ng/L
Basis: NA
Analysis Lot: 783275

Lab Control Sample
KQ2218596-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	33.2	30.7	108	65-166
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	30.0	30.4	98	77-150
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	29.1	32.0	91	68-149
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	30.6	32.0	96	66-162
Perfluorobutane sulfonic acid (PFBS)	28.4	28.4	100	67-145
Perfluorobutanoic acid (PFBA)	32.0	32.0	100	81-139
Perfluorodecane sulfonic acid (PFDS)	41.8	30.9	135 *	60-129
Perfluorodecanoic acid (PFDA)	38.4	32.0	120	68-152
Perfluorododecanoic acid (PFDOA)	30.7	32.0	96	66-142
Perfluoroheptane sulfonic acid (PFHpS)	31.6	30.5	104	60-162
Perfluoroheptanoic acid (PFHpA)	28.8	32.0	90	64-147
Perfluorohexane sulfonic acid (PFHxS)	35.1	29.2	120	65-148
Perfluorohexanoic acid (PFHxA)	35.7	32.0	112	65-149
Perfluorononanoic acid (PFNA)	35.9	32.0	112	72-145
Perfluorooctane sulfonamide (PFOSAm)	32.1	32.0	100	71-134
Perfluorooctane sulfonic acid (PFOS)	31.9	29.7	107	67-135
Perfluorooctanoic acid (PFOA)	35.3	32.0	110	59-147
Perfluoropentanoic acid (PFPeA)	27.4	32.0	86	66-159
Perfluorotetradecanoic acid (PFTDA)	29.1	32.0	91	61-148
Perfluorotridecanoic acid (PFTrDA)	34.0	32.0	106	64-153
Perfluoroundecanoic acid (PFUnDA)	38.3	32.0	120	68-145

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 10/27/22 23:06
Date Extracted: 10/26/22

Method Blank Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name: Method Blank **Instrument ID:** K-LCMS-06
Lab Code: KQ2218596-04 **File ID:** J:\LCMS06\Data\221027_B1\221027_056
Analysis Method: PFC/537M **Analysis Lot:** 783275
Prep Method: ALS SOP **Extraction Lot:** 408748

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2218596-03	J:\LCMS06\Data\221027_B1\221027_057	10/27/22 23:17
CW3B-1022	R2210165-001	J:\LCMS06\Data\221027_B1\221027_071	10/28/22 01:43
CW4B-1022	R2210165-002	J:\LCMS06\Data\221027_B1\221027_072	10/28/22 01:54
MW17S-1022	R2210165-003	J:\LCMS06\Data\221027_B1\221027_073	10/28/22 02:04
DUP1-1022	R2210165-004	J:\LCMS06\Data\221027_B1\221027_074	10/28/22 02:14
FB1-1022	R2210165-005	J:\LCMS06\Data\221027_B1\221027_075	10/28/22 02:25
CW4A-1022	R2210165-006	J:\LCMS06\Data\221027_B1\221027_076	10/28/22 02:35

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request: R2210165
Date Analyzed: 10/27/22 23:17
Date Extracted: 10/26/22

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name: Lab Control Sample **Instrument ID:** K-LCMS-06
Lab Code: KQ2218596-03 **File ID:** J:\LCMS06\Data\221027_B1\221027_057
Analysis Method: PFC/537M **Analysis Lot:** 783275
Prep Method: ALS SOP **Extraction Lot:** 408748

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2218596-04	J:\LCMS06\Data\221027_B1\221027_056	10/27/22 23:06
CW3B-1022	R2210165-001	J:\LCMS06\Data\221027_B1\221027_071	10/28/22 01:43
CW4B-1022	R2210165-002	J:\LCMS06\Data\221027_B1\221027_072	10/28/22 01:54
MW17S-1022	R2210165-003	J:\LCMS06\Data\221027_B1\221027_073	10/28/22 02:04
DUP1-1022	R2210165-004	J:\LCMS06\Data\221027_B1\221027_074	10/28/22 02:14
FB1-1022	R2210165-005	J:\LCMS06\Data\221027_B1\221027_075	10/28/22 02:25
CW4A-1022	R2210165-006	J:\LCMS06\Data\221027_B1\221027_076	10/28/22 02:35

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2200643-01	PFC ICAL @ 0.05 ppb	221027_006	10/27/2022 14:17
02	KC2200643-02	PFC ICAL @ 0.1 PPB	221027_007	10/27/2022 14:27
03	KC2200643-03	PFC ICAL @ 0.5 PPB	221027_008	10/27/2022 14:38
04	KC2200643-04	PFC ICAL @ 1.0 PPB	221027_009	10/27/2022 14:48
05	KC2200643-05	PFC ICAL @ 5.0ppb	221027_010	10/27/2022 14:59
06	KC2200643-06	PFC ICAL @ 10ppb	221027_011	10/27/2022 15:09
07	KC2200643-07	PFC ICAL @ 15ppb	221027_013	10/27/2022 15:30

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1056	02	5.0000	0.08984	03	5.0000	0.0997	04	5.0000	0.08908
05	5.0000	0.1065	06	5.0000	0.1012	07	5.0000	0.1003			

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.0000	0.1079	03	5.0000	0.09447	04	5.0000	0.07934	05	5.0000	0.09292
06	5.0000	0.09045	07	5.0000	0.09625						

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.699	02	5.0000	0.7084	03	5.0000	0.7702	04	5.0000	0.7237
05	5.0000	0.7985	06	5.0000	0.7324	07	5.0000	0.735			

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.104	02	5.0000	1.034	03	5.0000	1.094	04	5.0000	0.9647
05	5.0000	1.107	06	5.0000	1.041	07	5.0000	1.076			

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.341	02	5.0000	1.444	03	5.0000	1.627	04	5.0000	1.501
05	5.0000	1.566	06	5.0000	1.47	07	5.0000	1.582			

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9262	02	5.0000	0.9144	03	5.0000	1.058	04	5.0000	0.8957
05	5.0000	1.012	06	5.0000	0.958	07	5.0000	0.9372			

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.209	02	5.0000	1.169	03	5.0000	1.208	04	5.0000	1.124
05	5.0000	1.23	06	5.0000	1.218	07	5.0000	1.206			

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.2746	02	5.0000	0.2772	03	5.0000	0.3178	04	5.0000	0.2846

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

13C3-PFBS								
#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.0000	0.3135	06	5.0000	0.3111	07	5.0000	0.3158
13C4-PFBA								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.8922	02	5.0000	0.9684	03	5.0000	1.006
05	5.0000	0.9846	06	5.0000	0.9993	07	5.0000	1.005
13C4-PFHpA								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.076	02	5.0000	1.118	03	5.0000	1.405
05	5.0000	1.177	06	5.0000	1.135	07	5.0000	1.179
13C4-PFOA								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.867	02	5.0000	1.848	03	5.0000	2.125
05	5.0000	2.014	06	5.0000	1.987	07	5.0000	1.926
13C4-PFOS								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1742	02	5.0000	0.1716	03	5.0000	0.1925
05	5.0000	0.2035	06	5.0000	0.2042	07	5.0000	0.2056
13C5-PFNA								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.8178	02	5.0000	0.8369	03	5.0000	0.8746
05	5.0000	0.8924	06	5.0000	0.8583	07	5.0000	0.8554
13C5-PFPeA								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4845	02	5.0000	0.4723	03	5.0000	0.5502
05	5.0000	0.5502	06	5.0000	0.5499	07	5.0000	0.535
13C8-FOSA								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4093	02	5.0000	0.4119	03	5.0000	0.4712
05	5.0000	0.4507	06	5.0000	0.4412	07	5.0000	0.4348
18O2-PFHxS								
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1713	02	5.0000	0.1589	03	5.0000	0.2041
05	5.0000	0.1865	06	5.0000	0.1963	07	5.0000	0.1844
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)								
#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.0960	1.213	03	0.4800	1.161	04	0.9600	1.095
06	9.6005	1.073	07	14.4007	1.043	05	4.8002	1.102

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.0951	1.505	03	0.4756	1.153	04	0.9512	1.199	05	4.7558	1.191
06	9.5117	1.126	07	14.2676	1.142						

D3-MeFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1177	02	5.0000	0.1152	03	5.0000	0.1299	04	5.0000	0.124
05	5.0000	0.1193	06	5.0000	0.1134	07	5.0000	0.1205			

D5-EtFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1232	02	5.0000	0.111	03	5.0000	0.1068	04	5.0000	0.1105
05	5.0000	0.1114	06	5.0000	0.1087	07	5.0000	0.1032			

N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	1.017	03	0.5000	1.179	04	1.0000	0.9322	05	5.0000	1.149
06	10.0000	1.016	07	15.0000	1.219						

N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	1.008	03	0.5000	0.9831	04	1.0000	0.8318	05	5.0000	1.274
06	10.0000	1.231	07	15.0000	1.242						

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0444	1.11	02	0.0887	1.325	03	0.4437	1.173	04	0.8874	1.179
05	4.4369	1.257	06	8.8737	1.233	07	13.3106	1.252			

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.346	02	0.1000	1.15	03	0.5000	1.051	04	1.0000	1.034
05	5.0000	1.087	06	10.0000	1.026	07	15.0000	1.064			

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0482	0.8437	02	0.0965	0.5095	03	0.4823	0.855	04	0.9647	0.8563
05	4.8233	0.9343	06	9.6467	0.8671	07	14.4700	0.8936			

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.166	02	0.1000	1.213	03	0.5000	0.9494	04	1.0000	0.9828
05	5.0000	1.041	06	10.0000	1.011	07	15.0000	1.047			

Perfluorododecanoic acid (PFDOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.7883	02	0.1000	0.7854	03	0.5000	0.659	04	1.0000	0.6864
05	5.0000	0.737	06	10.0000	0.7193	07	15.0000	0.6965			

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0477	1.771	02	0.0953	1.781	03	0.4767	1.557	04	0.9534	1.716
05	4.7672	1.759	06	9.5344	1.594	07	14.3016	1.749			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.197	02	0.1000	1.106	03	0.5000	1.04	04	1.0000	1.122
05	5.0000	1.181	06	10.0000	1.16	07	15.0000	1.212			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0457	1.214	02	0.0913	1.403	03	0.4565	1.047	04	0.9131	1.067
05	4.5654	1.137	06	9.1308	1.042	07	13.6961	1.175			

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	1.011	03	0.5000	0.8926	04	1.0000	0.9187	05	5.0000	0.9638
06	10.0000	0.9582	07	15.0000	0.9679						

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.5265	02	0.1000	0.9618	03	0.5000	0.7857	04	1.0000	0.8598
05	5.0000	0.9022	06	10.0000	0.8647	07	15.0000	0.8788			

Perfluorooctane sulfonamide (PFOSAm)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.173	02	0.1000	1.4	03	0.5000	1.337	04	1.0000	1.339
05	5.0000	1.44	06	10.0000	1.344	07	15.0000	1.443			

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0465	0.9814	02	0.0929	0.9371	03	0.4646	0.7909	04	0.9292	0.7112
05	4.6461	0.7845	06	9.2923	0.7625	07	13.9385	0.7745			

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.157	02	0.1000	1.178	03	0.5000	1.07	04	1.0000	1.105
05	5.0000	1.134	06	10.0000	1.086	07	15.0000	1.168			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	2.919	02	0.1000	2.824	03	0.5000	2.497	04	1.0000	2.445
05	5.0000	2.528	06	10.0000	2.423	07	15.0000	2.574			

Perfluorotetradecanoic acid (PFTDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.139	02	0.1000	1.045	03	0.5000	0.9448	04	1.0000	0.9319
05	5.0000	0.9866	06	10.0000	0.9601	07	15.0000	0.9775			

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.22	02	0.1000	1.11	03	0.5000	1.015	04	1.0000	0.9968
05	5.0000	1.059	06	10.0000	1.031	07	15.0000	1.043			

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.5413	02	0.1000	0.4602	03	0.5000	0.5886	04	1.0000	0.5292
05	5.0000	0.5816	06	10.0000	0.5604	07	15.0000	0.5587			

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-6:2 FTS	SURR	Average RF	% RSD	7.0	20	0.09889	
13C2-8:2 FTS	SURR	Average RF	% RSD	9.9	20	0.09355	
13C2-PFDA	SURR	Average RF	% RSD	4.7	20	0.7382	
13C2-PFDoDA	SURR	Average RF	% RSD	4.8	20	1.06	
13C2-PFHxA	SURR	Average RF	% RSD	6.4	20	1.505	
13C2-PFTeDA	SURR	Average RF	% RSD	6.1	20	0.9573	
13C2-PFUnDA	SURR	Average RF	% RSD	3.0	20	1.195	
13C3-PFBS	SURR	Average RF	% RSD	6.5	20	0.2992	
13C4-PFBA	SURR	Average RF	% RSD	4.1	20	0.9784	
13C4-PFHpA	SURR	Average RF	% RSD	9.0	20	1.179	
13C4-PFOA	SURR	Average RF	% RSD	5.1	20	1.949	
13C4-PFOS	SURR	Average RF	% RSD	7.6	20	0.1906	
13C5-PFNA	SURR	Average RF	% RSD	3.5	20	0.8496	
13C5-PFPeA	SURR	Average RF	% RSD	6.8	20	0.5186	
13C8-FOSA	SURR	Average RF	% RSD	5.2	20	0.4342	
18O2-PFHxS	SURR	Average RF	% RSD	9.0	20	0.1811	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	5.6	20	1.115	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	11.7	20	1.219	
D3-MeFOSAA	SURR	Average RF	% RSD	4.7	20	0.12	
D5-EtFOSAA	SURR	Average RF	% RSD	5.6	20	0.1107	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	TRG	Linear	R2	0.9925	0.99	1.085	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	TRG	Average RF	% RSD	16.4	20	1.095	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	5.8	20	1.218	
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	10.2	20	1.108	
Perfluorodecane sulfonic acid (PFDS)	TRG	Linear	R2	0.9990	0.99	0.8228	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	9.1	20	1.059	
Perfluorododecanoic acid (PFDOA)	TRG	Average RF	% RSD	6.8	20	0.7245	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	5.3	20	1.704	
Perfluoroheptanoic acid (PFHpA)	TRG	Average RF	% RSD	5.3	20	1.145	

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorohexane sulfonic acid (PFHxS)	TRG	Average RF	% RSD	11.1	20	1.155	
Perfluorohexanoic acid (PFHxA)	TRG	Average RF	% RSD	4.4	20	0.9521	
Perfluorononanoic acid (PFNA)	TRG	Linear	R2	0.9995	0.99	0.8256	
Perfluorooctane sulfonamide (PFOSAm)	TRG	Average RF	% RSD	6.8	20	1.354	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	12.1	20	0.8203	
Perfluorooctanoic acid (PFOA)	TRG	Average RF	% RSD	3.7	20	1.128	
Perfluoropentanoic acid (PFPeA)	TRG	Average RF	% RSD	7.4	20	2.601	
Perfluorotetradecanoic acid (PFTDA)	TRG	Average RF	% RSD	7.2	20	0.9979	
Perfluorotridecanoic acid (PFTrDA)	TRG	Average RF	% RSD	7.1	20	1.068	
Perfluoroundecanoic acid (PFUnDA)	TRG	Average RF	% RSD	7.9	20	0.5457	

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2200643-08	PFC ICV @ 1.0ppb	221027_015	10/27/2022 15:51

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.856	1.218E0	1.175E0	-3.576	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.960	1.155E0	1.214E0	5.09	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.984	1.704E0	1.759E0	3.24	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.870	8.203E-1	7.683E-1	-6.344	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.04	8.228E-1	9.439E-1	7.47	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	0.923	1.108E0	1.023E0	-7.695	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.948	2.601E0	2.466E0	-5.216	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.00	9.521E-1	9.524E-1	0.030	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.02	1.145E0	1.164E0	1.60	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.972	1.128E0	1.097E0	-2.820	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.943	8.256E-1	8.171E-1	-5.694	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	0.933	1.059E0	9.873E-1	-6.727	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.07	5.457E-1	5.83E-1	6.83	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	0.917	7.245E-1	6.641E-1	-8.347	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	1.00	1.068E0	1.071E0	0.279	±30	Average RF
Perfluorotetradecanoic acid (PFTDA)	1.00	0.930	9.979E-1	9.283E-1	-6.972	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	1.00	0.945	1.354E0	1.279E0	-5.518	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.15	1.095E0	1.264E0	15.41	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.17	1.085E0	1.312E0	17.34	±30	Linear
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	1.05	1.219E0	1.348E0	10.52	±30	Average RF
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	0.972	1.115E0	1.129E0	1.29	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C3-PFBS	5.00	4.69	2.992E-1	2.806E-1	-6.235	±30	Average RF
18O2-PFHxS	5.00	4.31	1.811E-1	1.561E-1	-13.805	±30	Average RF
13C4-PFOS	5.00	4.65	1.906E-1	1.774E-1	-6.952	±30	Average RF
13C4-PFBA	5.00	4.93	9.784E-1	9.653E-1	-1.346	±30	Average RF
13C5-PFPeA	5.00	4.63	5.186E-1	4.802E-1	-7.400	±30	Average RF
13C2-PFHxA	5.00	4.71	1.505E0	1.417E0	-5.826	±30	Average RF
13C4-PFHpA	5.00	4.42	1.179E0	1.043E0	-11.596	±30	Average RF
13C4-PFOA	5.00	4.72	1.949E0	1.841E0	-5.554	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Calibration Date: 10/27/2022

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2200643
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C5-PFNA	5.00	4.78	8.496E-1	8.114E-1	-4.496	±30	Average RF
13C2-PFDA	5.00	4.73	7.382E-1	6.977E-1	-5.479	±30	Average RF
13C2-PFUnDA	5.00	4.73	1.195E0	1.131E0	-5.342	±30	Average RF
13C2-PFDoDA	5.00	4.69	1.06E0	9.947E-1	-6.171	±30	Average RF
13C2-PFTeDA	5.00	4.46	9.573E-1	8.546E-1	-10.732	±30	Average RF
13C8-FOSA	5.00	4.98	4.342E-1	4.325E-1	-0.393	±30	Average RF
D3-MeFOSAA	5.00	4.95	1.2E-1	1.188E-1	-0.984	±30	Average RF
D5-EtFOSAA	5.00	4.85	1.107E-1	1.074E-1	-2.930	±30	Average RF
13C2-6:2 FTS	5.00	4.48	9.889E-2	8.867E-2	-10.330	±30	Average RF
13C2-8:2 FTS	5.00	4.48	9.355E-2	8.384E-2	-10.384	±30	Average RF

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Date Analyzed: 10/27/22 22:45

**Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS**

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\221027_B1\221027_054
Signal ID: 1

Calibration Date: 10/27/2022
Calibration ID: KC2200643
Analysis Lot: 783275
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.968	1.2183	1.3287	109	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.910	1.1549	1.1512	99.7	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.917	1.7038	1.6382	96.1	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.893	0.8203	0.788	96.1	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.13	0.8228	1.0293	117	17.0	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	0.937	1.1084	1.0388	93.7	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.883	2.6015	2.2965	88.3	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.09	0.9521	1.0365	109	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.02	1.1453	1.1628	102	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.06	1.1285	1.1911	106	NA	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	1.08	0.8256	0.9358	108	7.8	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	1.06	1.0585	1.1234	106	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.07	0.5457	0.5862	107	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	0.889	0.7245	0.6444	88.9	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	1.03	1.0679	1.1034	103	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTDA)	1.00	0.942	0.9979	0.9404	94.2	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	1.00	1.01	1.3538	1.3628	101	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	0.840	1.095	0.9198	84.0	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	0.851	1.0854	0.9444	85.1	-14.9	±30	Linear
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	1.09	1.2193	1.3982	115	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.06	1.1146	1.2254	110	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	3.26	0.2992	0.1954	65.3*	NA	±30	Average RF
18O2-PFHxS	5.00	3.28	0.1811	0.1188	65.6*	NA	±30	Average RF
13C4-PFOS	5.00	3.70	0.1906	0.1409	73.9	NA	±30	Average RF
13C4-PFBA	5.00	3.37	0.9784	0.6588	67.3*	NA	±30	Average RF
13C5-PFPeA	5.00	3.40	0.5186	0.3524	68.0*	NA	±30	Average RF
13C2-PFHxA	5.00	3.39	1.5045	1.0201	67.8*	NA	±30	Average RF
13C4-PFHpA	5.00	3.76	1.1793	0.886	75.1	NA	±30	Average RF
13C4-PFOA	5.00	3.39	1.9492	1.3234	67.9*	NA	±30	Average RF

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request: R2210165
Date Analyzed: 10/27/22 22:45

**Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS**

Analysis Method: PFC/537M
File ID: J:\LCMS06\Data\221027_B1\221027_054
Signal ID: 1

Calibration Date: 10/27/2022
Calibration ID: KC2200643
Analysis Lot: 783275
Units: ng/mL

13C5-PFNA	5.00	3.63	0.8496	0.6171	72.6	NA	±30	Average RF
13C2-PFDA	5.00	3.85	0.7382	0.5687	77.0	NA	±30	Average RF
13C2-PFUnDA	5.00	4.26	1.1947	1.0176	85.2	NA	±30	Average RF
13C2-PFDoDA	5.00	4.34	1.0601	0.9203	86.8	NA	±30	Average RF
13C2-PFTeDA	5.00	4.23	0.9573	0.8101	84.6	NA	±30	Average RF
13C8-FOSA	5.00	4.36	0.4342	0.3782	87.1	NA	±30	Average RF
D3-MeFOSAA	5.00	4.73	0.12	0.1134	94.5	NA	±30	Average RF
D5-EtFOSAA	5.00	4.78	0.1107	0.1059	95.7	NA	±30	Average RF
13C2-6:2 FTS	5.00	3.45	0.0989	0.0683	69.0*	NA	±30	Average RF
13C2-8:2 FTS	5.00	3.57	0.0935	0.0668	71.4	NA	±30	Average RF

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request:R2210165

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M

Analysis Lot:783275
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\221027_B1\221027_054	Continuing Calibration Verification	KQ2219063-01	10/27/2022	22:45	
J:\LCMS06\Data\221027_B1\221027_055	Continuing Calibration Blank	KQ2219063-02	10/27/2022	22:56	
J:\LCMS06\Data\221027_B1\221027_056	Method Blank	KQ2218596-04	10/27/2022	23:06	
J:\LCMS06\Data\221027_B1\221027_057	Lab Control Sample	KQ2218596-03	10/27/2022	23:17	
J:\LCMS06\Data\221027_B1\221027_058	ZZZZZZZ	ZZZZZZZ	10/27/2022	23:27	
J:\LCMS06\Data\221027_B1\221027_059	ZZZZZZZ	ZZZZZZZ	10/27/2022	23:38	
J:\LCMS06\Data\221027_B1\221027_060	ZZZZZZZ	ZZZZZZZ	10/27/2022	23:48	
J:\LCMS06\Data\221027_B1\221027_061	ZZZZZZZ	ZZZZZZZ	10/27/2022	23:59	
J:\LCMS06\Data\221027_B1\221027_062	ZZZZZZZ	ZZZZZZZ	10/28/2022	00:09	
J:\LCMS06\Data\221027_B1\221027_063	ZZZZZZZ	ZZZZZZZ	10/28/2022	00:19	
J:\LCMS06\Data\221027_B1\221027_064	ZZZZZZZ	ZZZZZZZ	10/28/2022	00:30	
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J:\LCMS06\Data\221027_B1\221027_066	ZZZZZZZ	ZZZZZZZ	10/28/2022	00:51	
J:\LCMS06\Data\221027_B1\221027_067	ZZZZZZZ	ZZZZZZZ	10/28/2022	01:01	
J:\LCMS06\Data\221027_B1\221027_068	ZZZZZZZ	ZZZZZZZ	10/28/2022	01:12	
J:\LCMS06\Data\221027_B1\221027_069	ZZZZZZZ	ZZZZZZZ	10/28/2022	01:22	
J:\LCMS06\Data\221027_B1\221027_070	ZZZZZZZ	ZZZZZZZ	10/28/2022	01:33	
J:\LCMS06\Data\221027_B1\221027_071	CW3B-1022	R2210165-001	10/28/2022	01:43	
J:\LCMS06\Data\221027_B1\221027_072	CW4B-1022	R2210165-002	10/28/2022	01:54	
J:\LCMS06\Data\221027_B1\221027_073	MW17S-1022	R2210165-003	10/28/2022	02:04	
J:\LCMS06\Data\221027_B1\221027_074	DUP1-1022	R2210165-004	10/28/2022	02:14	
J:\LCMS06\Data\221027_B1\221027_075	FB1-1022	R2210165-005	10/28/2022	02:25	
J:\LCMS06\Data\221027_B1\221027_076	CW4A-1022	R2210165-006	10/28/2022	02:35	
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J:\LCMS06\Data\221027_B1\221027_078	ZZZZZZZ	ZZZZZZZ	10/28/2022	02:56	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Water

Service Request:R2210165

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Prep Method: ALS SOP
Analytical Method: PFC/537M

Extraction Lot: 408748
Extraction Date: 10/26/22 09:29

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Lab Control Sample	KQ2218596-03LCS	NA	NA	250 mL	8 mL	
Method Blank	KQ2218596-04MB	NA	NA	250 mL	8 mL	
CW3B-1022	R2210165-001	10/18/22	10/21/22	275.0000 mL	8 mL	
CW4B-1022	R2210165-002	10/18/22	10/21/22	280.0000 mL	8 mL	
MW17S-1022	R2210165-003	10/18/22	10/21/22	270.0000 mL	8 mL	
DUP1-1022	R2210165-004	10/18/22	10/21/22	275.0000 mL	8 mL	
FB1-1022	R2210165-005	10/18/22	10/21/22	260.0000 mL	8 mL	
CW4A-1022	R2210165-006	10/19/22	10/21/22	280.0000 mL	8 mL	



December 07, 2022

Service Request No:R2211254

Mr. Jon Brandes
On-Site Technical Services, Inc.
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: WAL - Semi-Annual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory November 22, 2022
For your reference, these analyses have been assigned our service request number **R2211254**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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dba ALS Environmental



Narrative Documents

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Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2211254
Date Received: 11/22/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One drinking water sample was received for analysis at ALS Environmental on 11/22/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by _____

Date 12/05/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: WAL2-1122		Lab ID: R2211254-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	32.0			1.0	ug/L	200.8
Calcium, Total	41200			1000	ug/L	200.7
Copper, Total	2.8			1.0	ug/L	200.8
Iron, Total	480			100	ug/L	200.7
Magnesium, Total	13300			1000	ug/L	200.7
Manganese, Total	569			10	ug/L	200.7
Sodium, Total	56100			1000	ug/L	200.7



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling

Service Request:R2211254

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2211254-001	WAL2-1122	11/21/2022	0935



Client: **On-Site**
 72 Railroad Ave.
 Wellsville, NY 14895

Project Manager: **Jon Brandes**

CHAIN of CUSTODY

Project: **WAL - Semiannual Sampling**

Telephone No. 585-593-1824 Email: junb@on-sitehs.com

Page 1 of 1

Method of Shipment
UPS

Special Detection Limit/Reporting

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	VOA's 8260 (HCl)	VOA's 524.2 (C6H8O6)	T-Metals (HNO3)	TDS, NO3, Br, Cl, SO4 (NP) (SW/SED)	NH3, TKN, COD (H2SO4) (SW/SED)	Total Color (NP) (SW/SED)	BOD (NP) (SW/SED)	Alkalinity (NP) (SW/SED)	TOC, Phenols (H2SO4) (SW/SED)	TDS, NO3 (NP) (Manhole)
			Soil	Water	Air	Other	Yes	No												
WAL2-1122	1	1					1	11/21/22	0935											

REMARKS

Sample Received Intact: Yes No Temperature received: Ice No ice

Relinquished by (Sign & Print Name) <i>Jonathan E Brandes</i>	Date Time 11/21/22 1030	Received by (Sign & Print Name) <i>Gregory O Esmerman</i>	Date Time 11/22/22 12:40
Relinquished by	Date Time	Received by	Date Time
Relinquished by	Date Time	Received by	Date Time

Lab Work No.





Cooler Receipt and Preservation Check

R2211254

5

On-Site Technical Services, Inc.
WAL - Semiannual Sampling



Project/Client

On-site

Folder Number

Cooler received on

11/22/22

by

ME

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings

Date: 11/22/22

Time: 12:51

ID: IR#7

IR#11

From: Temp Blank

Sample Bottle

Observed Temp (°C)	<u>1.3</u>							
Within 0-6°C?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N
If <0°C, were samples frozen?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Rm 102 by ME on 11/22/22 at 12:53
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 11/22/22 Time: 13:47 by: ME

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized YES NO Tedlar® Bags Inflated N/A N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
2	<u>206722</u>	HNO ₃	<input checked="" type="checkbox"/>		<u>2022012457</u>	<u>09/23</u>				
2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 22-09-19

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ME

PC Secondary Review: ME 12/7/22 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as: LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
--	---

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling/

Service Request: R2211254

Sample Name: WAL2-1122
Lab Code: R2211254-001
Sample Matrix: Drinking Water

Date Collected: 11/21/22
Date Received: 11/22/22

Analysis Method

200.7
200.8

Extracted/Digested By

CDISTEFANO
CDISTEFANO

Analyzed By

NMANSEN
NMANSEN



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL2-1122
Lab Code: R2211254-001

Service Request: R2211254
Date Collected: 11/21/22 09:35
Date Received: 11/22/22 12:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:47	11/29/22	
Barium, Total	200.8	32.0	ug/L	1.0	1	12/01/22 11:47	11/29/22	
Cadmium, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:47	11/29/22	
Calcium, Total	200.7	41200	ug/L	1000	1	11/23/22 18:18	11/23/22	
Chromium, Total	200.7	10 U	ug/L	10	1	11/23/22 18:18	11/23/22	
Copper, Total	200.8	2.8	ug/L	1.0	1	12/01/22 11:47	11/29/22	
Iron, Total	200.7	480	ug/L	100	1	11/23/22 18:18	11/23/22	
Lead, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:47	11/29/22	
Magnesium, Total	200.7	13300	ug/L	1000	1	11/23/22 18:18	11/23/22	
Manganese, Total	200.7	569	ug/L	10	1	11/23/22 18:18	11/23/22	
Nickel, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:47	11/29/22	
Potassium, Total	200.7	2000 U	ug/L	2000	1	11/23/22 18:18	11/23/22	
Selenium, Total	200.8	2.0 U	ug/L	2.0	1	12/01/22 11:47	11/29/22	
Sodium, Total	200.7	56100	ug/L	1000	1	11/23/22 18:18	11/23/22	
Zinc, Total	200.7	20 U	ug/L	20	1	11/23/22 18:18	11/23/22	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water
Sample Name: Method Blank
Lab Code: R2211254-MB

Service Request: R2211254
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:43	11/29/22	
Barium, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:43	11/29/22	
Cadmium, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:43	11/29/22	
Calcium, Total	200.7	1000 U	ug/L	1000	1	11/23/22 16:43	11/23/22	
Chromium, Total	200.7	10 U	ug/L	10	1	11/23/22 16:43	11/23/22	
Copper, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:43	11/29/22	
Iron, Total	200.7	100 U	ug/L	100	1	11/23/22 16:43	11/23/22	
Lead, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:43	11/29/22	
Magnesium, Total	200.7	1000 U	ug/L	1000	1	11/23/22 16:43	11/23/22	
Manganese, Total	200.7	10 U	ug/L	10	1	11/23/22 16:43	11/23/22	
Nickel, Total	200.8	1.0 U	ug/L	1.0	1	12/01/22 11:43	11/29/22	
Potassium, Total	200.7	2000 U	ug/L	2000	1	11/23/22 16:43	11/23/22	
Selenium, Total	200.8	2.0 U	ug/L	2.0	1	12/01/22 11:43	11/29/22	
Sodium, Total	200.7	1000 U	ug/L	1000	1	11/23/22 16:43	11/23/22	
Zinc, Total	200.7	20 U	ug/L	20	1	11/23/22 16:43	11/23/22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request:R2211254
Date Collected:11/21/22
Date Received:11/22/22
Date Analyzed:12/1/22

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: WAL2-1122
Lab Code: R2211254-001

Units:ug/L
Basis:NA

Analyte Name	Method	Sample Result	Result	Matrix Spike R2211254-001MS		Duplicate Matrix Spike R2211254-001DMS		% Rec	Limits	RPD	RPD Limit
				Spike Amount	% Rec	Result	Spike Amount				
Arsenic, Total	200.8	1.0 U	20.8	20.0	104	21.3	20.0	106	70-130	2	20
Barium, Total	200.8	32.0	51.8	20.0	99	52.3	20.0	102	70-130	1	20
Cadmium, Total	200.8	1.0 U	19.1	20.0	95	18.9	20.0	95	70-130	<1	20
Copper, Total	200.8	2.8	21.4	20.0	93	22.1	20.0	97	70-130	3	20
Lead, Total	200.8	1.0 U	19.3	20.0	96	19.7	20.0	98	70-130	2	20
Nickel, Total	200.8	1.0 U	18.4	20.0	92	18.7	20.0	93	70-130	2	20
Selenium, Total	200.8	2.0 U	19.0	20.0	95	20.0	20.0	100	70-130	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
Project: WAL - Semi-Annual Sampling
Sample Matrix: Drinking Water

Service Request: R2211254
Date Analyzed: 11/23/22 - 12/01/22

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2211254-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	200.8	20.0	20.0	100	85-115
Barium, Total	200.8	19.5	20.0	98	85-115
Cadmium, Total	200.8	19.4	20.0	97	85-115
Calcium, Total	200.7	2000	2000	101	85-115
Chromium, Total	200.7	205	200	103	85-115
Copper, Total	200.8	19.8	20.0	99	85-115
Iron, Total	200.7	983	1000	98	85-115
Lead, Total	200.8	20.6	20.0	103	85-115
Magnesium, Total	200.7	2000	2000	99	85-115
Manganese, Total	200.7	505	500	101	85-115
Nickel, Total	200.8	18.7	20.0	93	85-115
Potassium, Total	200.7	18500	20000	92	85-115
Selenium, Total	200.8	19.5	20.0	98	85-115
Sodium, Total	200.7	20100	20000	101	85-115
Zinc, Total	200.7	506	500	101	85-115



June 02, 2022

Service Request No:R2204576

Mr. Jon Brandes
On-Site Technical Services, Inc.
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: Wellsville-Andover LF - Seimannual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory May 19, 2022
For your reference, these analyses have been assigned our service request number **R2204576**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water, Water

Service Request: R2204576
Date Received: 05/19/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four drinking water, water samples were received for analysis at ALS Environmental on 05/19/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 524.2, 05/25/2022: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 05/24/2022: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by _____

Date 06/02/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: WAL19Pre-0522	Lab ID: R2204576-003					
---------------------------------	-----------------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	1.9			0.50	ug/L	524.2
Trichloroethene	2.8			0.50	ug/L	524.2

CLIENT ID: SWS1-0522	Lab ID: R2204576-004					
-----------------------------	-----------------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	190			2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	8.7			1.0	mg/L	SM 5310 B-2014
Chemical Oxygen Demand, Total	30.7			5.0	mg/L	410.4
Chloride	110			6.0	mg/L	300.0
Color, True	35.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.59			0.20	mg/L	351.2
pH of Color Analysis	7.74				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	388			10	mg/L	SM 2540 C-2015
Sulfate	2.1			2.0	mg/L	300.0
Barium, Total	39			20	ug/L	6010C
Calcium, Total	58600			1000	ug/L	6010C
Iron, Total	290			100	ug/L	6010C
Magnesium, Total	17900			1000	ug/L	6010C
Manganese, Total	184			10	ug/L	6010C
Potassium, Total	2400			2000	ug/L	6010C
Sodium, Total	55400			1000	ug/L	6010C
Zinc, Total	34			20	ug/L	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling

Service Request:R2204576

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2204576-001	WAL19Post-0522	5/18/2022	1030
R2204576-002	WAL19Inter-0522	5/18/2022	1020
R2204576-003	WAL19Pre-0522	5/18/2022	1010
R2204576-004	SWS1-0522	5/18/2022	1100



ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: On-Site	CHAIN of CUSTODY		Page <u>1</u> of <u>1</u>
72 Railroad Ave.	Project:	WAL - Semiannual Sampling	
Wellsville, NY 14895	Telephone No.	Email: jonb@on-sites.com	
Project Manager: Jon Brandes	585-593-1824		

Method of Shipment
UPS

Special Detection Limit/Reporting

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	VOA's 8260 (HCl)	VOA's 524.2 (C6H8O6)	T-Metals (HNO3)	TDS, NO3, Br, Cl, SO4 (NP) (SW/SED)	NH3, TKN, COD (H2SO4) (SW/SED)	Total Color (NP) (SW/SED)	BOD (NP) (SW/SED)	Alkalinity (NP) (SW/SED)	TOC, Phenols (H2SO4) (SW/SED)	TDS, NO3 (NP) (Manhole)
			Soil	Water	Air	Other	Yes	No												
WAL19Post-0522		3	X				X	5-18-22	1030	X										
WAL19Inter-0522		3	X				X	5-18-22	1020	X										
WAL19Pre-0522		3	X				X	5-18-22	1010	X										
SWS1-0522		10	X				X	5-18-22	1100	X	X	X	X	X	X	X	X	X	X	X

R
E
M
A
R
K
S

Sample Received Intact: Yes No Temperature received: Ice No ice

Relinq. by sampler (Sign & Print Name) <i>Kevin Dye / Kevin DYE</i>	Date Time 5/18/22 1300	Received by (Sign & Print Name) <i>Mike Schwartz</i>	Lab Work No.
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by laboratory	

Date Time
5/19/22 9:40

R2204576 5
On-Site Technical Services, Inc.
Wellsville-Andover LF - Semiannual Sampling



Cooler Receipt and Preservation Check Form

R2204576 **5**
 On-Site Technical Services, Inc.
 Welleville-Andover LF - Semiannual Sampling

Project/Client _____ Folder Number _____

Cooler received on 5/19/22 by: MS

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circles: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	ALS/ROC <u>CLIENT</u>
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 5/19/22 Time: 10:05 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.1</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
 & Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 002 by MS on 5/19/22 at 10:05
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 5/20/22 Time: 9:00 by: MS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- Air Samples: Cassettes / Tubes Intact Y/N with MS Y/N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<u>2</u>	<u>223419</u>	HNO ₃	✓		<u>22-01-14 1121061</u>	<u>1/23</u>				
<u>2</u>		H ₂ SO ₄	✓		<u>L120-10</u>	<u>2/23</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)	<u>↓</u>	For CN, Phenol, 625, 608pest, 522	✓		If+, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 041122-1EKP, 22-01-14, 22-02-03

Explain all Discrepancies/ Other Comments:

Phenol/H₂SO₄ pres.

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MS
 PC Secondary Review: MS 5/24/22 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling

Service Request: R2204576

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
524.2	Drinking Water	m,p-Xylenes
524.2	Drinking Water	o-Xylene

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dba ALS Environmental

Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling/

Service Request: R2204576

Sample Name: WAL19Post-0522
Lab Code: R2204576-001
Sample Matrix: Drinking Water

Date Collected: 05/18/22
Date Received: 05/19/22

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Inter-0522
Lab Code: R2204576-002
Sample Matrix: Drinking Water

Date Collected: 05/18/22
Date Received: 05/19/22

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Pre-0522
Lab Code: R2204576-003
Sample Matrix: Drinking Water

Date Collected: 05/18/22
Date Received: 05/19/22

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: SWS1-0522
Lab Code: R2204576-004
Sample Matrix: Water

Date Collected: 05/18/22
Date Received: 05/19/22

Analysis Method
300.0
300.0
350.1
351.2
410.4
420.4
6010C
8260C
SM 2120 B-2001(2011)
SM 2320 B-1997(2011)

Extracted/Digested By

STALARICO

Analyzed By
KWONG
SMORGAN
MROGERSON
GNITAJOUPPI
MROGERSON
BBOWE
KMCLAEN
FNAEGLER
KAWONG
KAWONG

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling/

Service Request: R2204576

Sample Name: SWS1-0522
Lab Code: R2204576-004
Sample Matrix: Water

Date Collected: 05/18/22
Date Received: 05/19/22

Analysis Method
SM 2540 C-2015
SM 5210 B-2016
SM 5310 B-2014

Extracted/Digested By

Analyzed By
ADIPZINSKI
STALARICO
SMEDBURY



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL19Post-0522
Lab Code: R2204576-001

Service Request: R2204576
Date Collected: 05/18/22 10:30
Date Received: 05/19/22 09:40

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	05/25/22 13:03	
Bromobenzene	0.50 U	0.50	1	05/25/22 13:03	
Bromochloromethane	0.50 U	0.50	1	05/25/22 13:03	
Bromodichloromethane	0.50 U	0.50	1	05/25/22 13:03	
Bromoform	0.50 U	0.50	1	05/25/22 13:03	
Bromomethane	0.50 U	0.50	1	05/25/22 13:03	
Methyl tert-Butyl Ether	0.50 U	0.50	1	05/25/22 13:03	
tert-Butylbenzene	0.50 U	0.50	1	05/25/22 13:03	
sec-Butylbenzene	0.50 U	0.50	1	05/25/22 13:03	
n-Butylbenzene	0.50 U	0.50	1	05/25/22 13:03	
Carbon Tetrachloride	0.50 U	0.50	1	05/25/22 13:03	
Chlorobenzene	0.50 U	0.50	1	05/25/22 13:03	
Chloroethane	0.50 U	0.50	1	05/25/22 13:03	
Chloroform	0.50 U	0.50	1	05/25/22 13:03	
Chloromethane	0.50 U	0.50	1	05/25/22 13:03	
2-Chlorotoluene	0.50 U	0.50	1	05/25/22 13:03	
4-Chlorotoluene	0.50 U	0.50	1	05/25/22 13:03	
Dibromochloromethane	0.50 U	0.50	1	05/25/22 13:03	
Dibromomethane	0.50 U	0.50	1	05/25/22 13:03	
1,2-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:03	
1,4-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:03	
1,3-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:03	
Dichlorodifluoromethane	0.50 U	0.50	1	05/25/22 13:03	
1,1-Dichloroethane	0.50 U	0.50	1	05/25/22 13:03	
1,2-Dichloroethane	0.50 U	0.50	1	05/25/22 13:03	
1,1-Dichloroethene	0.50 U	0.50	1	05/25/22 13:03	
trans-1,2-Dichloroethene	0.50 U	0.50	1	05/25/22 13:03	
cis-1,2-Dichloroethene	0.50 U	0.50	1	05/25/22 13:03	
2,2-Dichloropropane	0.50 U	0.50	1	05/25/22 13:03	
1,2-Dichloropropane	0.50 U	0.50	1	05/25/22 13:03	
1,3-Dichloropropane	0.50 U	0.50	1	05/25/22 13:03	
trans-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 13:03	
cis-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 13:03	
Ethylbenzene	0.50 U	0.50	1	05/25/22 13:03	
Hexachlorobutadiene	0.50 U	0.50	1	05/25/22 13:03	
Isopropylbenzene	0.50 U	0.50	1	05/25/22 13:03	
p-Isopropyltoluene	0.50 U	0.50	1	05/25/22 13:03	
Methylene Chloride	0.50 U	0.50	1	05/25/22 13:03	
Naphthalene	0.50 U	0.50	1	05/25/22 13:03	
n-Propylbenzene	0.50 U	0.50	1	05/25/22 13:03	
Styrene	0.50 U	0.50	1	05/25/22 13:03	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 13:03	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 13:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL19Post-0522
Lab Code: R2204576-001

Service Request: R2204576
Date Collected: 05/18/22 10:30
Date Received: 05/19/22 09:40
Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	05/25/22 13:03	
Toluene	0.50 U	0.50	1	05/25/22 13:03	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	05/25/22 13:03	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	05/25/22 13:03	
1,1,2-Trichloroethane	0.50 U	0.50	1	05/25/22 13:03	
Trichloroethene	0.50 U	0.50	1	05/25/22 13:03	
Trichlorofluoromethane	0.50 U	0.50	1	05/25/22 13:03	
1,2,3-Trichloropropane	0.50 U	0.50	1	05/25/22 13:03	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	05/25/22 13:03	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	05/25/22 13:03	
Vinyl Chloride	0.50 U	0.50	1	05/25/22 13:03	
m,p-Xylenes	1.0 U	1.0	1	05/25/22 13:03	
o-Xylene	0.50 U	0.50	1	05/25/22 13:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	70 - 130	05/25/22 13:03	
1,2-Dichlorobenzene-d4	101	70 - 130	05/25/22 13:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL19Inter-0522
Lab Code: R2204576-002

Service Request: R2204576
Date Collected: 05/18/22 10:20
Date Received: 05/19/22 09:40

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	05/25/22 13:28	
Bromobenzene	0.50 U	0.50	1	05/25/22 13:28	
Bromochloromethane	0.50 U	0.50	1	05/25/22 13:28	
Bromodichloromethane	0.50 U	0.50	1	05/25/22 13:28	
Bromoform	0.50 U	0.50	1	05/25/22 13:28	
Bromomethane	0.50 U	0.50	1	05/25/22 13:28	
Methyl tert-Butyl Ether	0.50 U	0.50	1	05/25/22 13:28	
tert-Butylbenzene	0.50 U	0.50	1	05/25/22 13:28	
sec-Butylbenzene	0.50 U	0.50	1	05/25/22 13:28	
n-Butylbenzene	0.50 U	0.50	1	05/25/22 13:28	
Carbon Tetrachloride	0.50 U	0.50	1	05/25/22 13:28	
Chlorobenzene	0.50 U	0.50	1	05/25/22 13:28	
Chloroethane	0.50 U	0.50	1	05/25/22 13:28	
Chloroform	0.50 U	0.50	1	05/25/22 13:28	
Chloromethane	0.50 U	0.50	1	05/25/22 13:28	
2-Chlorotoluene	0.50 U	0.50	1	05/25/22 13:28	
4-Chlorotoluene	0.50 U	0.50	1	05/25/22 13:28	
Dibromochloromethane	0.50 U	0.50	1	05/25/22 13:28	
Dibromomethane	0.50 U	0.50	1	05/25/22 13:28	
1,2-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:28	
1,4-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:28	
1,3-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:28	
Dichlorodifluoromethane	0.50 U	0.50	1	05/25/22 13:28	
1,1-Dichloroethane	0.50 U	0.50	1	05/25/22 13:28	
1,2-Dichloroethane	0.50 U	0.50	1	05/25/22 13:28	
1,1-Dichloroethene	0.50 U	0.50	1	05/25/22 13:28	
trans-1,2-Dichloroethene	0.50 U	0.50	1	05/25/22 13:28	
cis-1,2-Dichloroethene	0.50 U	0.50	1	05/25/22 13:28	
2,2-Dichloropropane	0.50 U	0.50	1	05/25/22 13:28	
1,2-Dichloropropane	0.50 U	0.50	1	05/25/22 13:28	
1,3-Dichloropropane	0.50 U	0.50	1	05/25/22 13:28	
trans-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 13:28	
cis-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 13:28	
Ethylbenzene	0.50 U	0.50	1	05/25/22 13:28	
Hexachlorobutadiene	0.50 U	0.50	1	05/25/22 13:28	
Isopropylbenzene	0.50 U	0.50	1	05/25/22 13:28	
p-Isopropyltoluene	0.50 U	0.50	1	05/25/22 13:28	
Methylene Chloride	0.50 U	0.50	1	05/25/22 13:28	
Naphthalene	0.50 U	0.50	1	05/25/22 13:28	
n-Propylbenzene	0.50 U	0.50	1	05/25/22 13:28	
Styrene	0.50 U	0.50	1	05/25/22 13:28	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 13:28	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 13:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL19Inter-0522
Lab Code: R2204576-002

Service Request: R2204576
Date Collected: 05/18/22 10:20
Date Received: 05/19/22 09:40

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	05/25/22 13:28	
Toluene	0.50 U	0.50	1	05/25/22 13:28	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	05/25/22 13:28	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	05/25/22 13:28	
1,1,2-Trichloroethane	0.50 U	0.50	1	05/25/22 13:28	
Trichloroethene	0.50 U	0.50	1	05/25/22 13:28	
Trichlorofluoromethane	0.50 U	0.50	1	05/25/22 13:28	
1,2,3-Trichloropropane	0.50 U	0.50	1	05/25/22 13:28	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	05/25/22 13:28	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	05/25/22 13:28	
Vinyl Chloride	0.50 U	0.50	1	05/25/22 13:28	
m,p-Xylenes	1.0 U	1.0	1	05/25/22 13:28	
o-Xylene	0.50 U	0.50	1	05/25/22 13:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	70 - 130	05/25/22 13:28	
1,2-Dichlorobenzene-d4	101	70 - 130	05/25/22 13:28	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL19Pre-0522
Lab Code: R2204576-003

Service Request: R2204576
Date Collected: 05/18/22 10:10
Date Received: 05/19/22 09:40

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	05/25/22 13:54	
Bromobenzene	0.50 U	0.50	1	05/25/22 13:54	
Bromochloromethane	0.50 U	0.50	1	05/25/22 13:54	
Bromodichloromethane	0.50 U	0.50	1	05/25/22 13:54	
Bromoform	0.50 U	0.50	1	05/25/22 13:54	
Bromomethane	0.50 U	0.50	1	05/25/22 13:54	
Methyl tert-Butyl Ether	0.50 U	0.50	1	05/25/22 13:54	
tert-Butylbenzene	0.50 U	0.50	1	05/25/22 13:54	
sec-Butylbenzene	0.50 U	0.50	1	05/25/22 13:54	
n-Butylbenzene	0.50 U	0.50	1	05/25/22 13:54	
Carbon Tetrachloride	0.50 U	0.50	1	05/25/22 13:54	
Chlorobenzene	0.50 U	0.50	1	05/25/22 13:54	
Chloroethane	0.50 U	0.50	1	05/25/22 13:54	
Chloroform	0.50 U	0.50	1	05/25/22 13:54	
Chloromethane	0.50 U	0.50	1	05/25/22 13:54	
2-Chlorotoluene	0.50 U	0.50	1	05/25/22 13:54	
4-Chlorotoluene	0.50 U	0.50	1	05/25/22 13:54	
Dibromochloromethane	0.50 U	0.50	1	05/25/22 13:54	
Dibromomethane	0.50 U	0.50	1	05/25/22 13:54	
1,2-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:54	
1,4-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:54	
1,3-Dichlorobenzene	0.50 U	0.50	1	05/25/22 13:54	
Dichlorodifluoromethane	0.50 U	0.50	1	05/25/22 13:54	
1,1-Dichloroethane	0.50 U	0.50	1	05/25/22 13:54	
1,2-Dichloroethane	0.50 U	0.50	1	05/25/22 13:54	
1,1-Dichloroethene	0.50 U	0.50	1	05/25/22 13:54	
trans-1,2-Dichloroethene	0.50 U	0.50	1	05/25/22 13:54	
cis-1,2-Dichloroethene	1.9	0.50	1	05/25/22 13:54	
2,2-Dichloropropane	0.50 U	0.50	1	05/25/22 13:54	
1,2-Dichloropropane	0.50 U	0.50	1	05/25/22 13:54	
1,3-Dichloropropane	0.50 U	0.50	1	05/25/22 13:54	
trans-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 13:54	
cis-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 13:54	
Ethylbenzene	0.50 U	0.50	1	05/25/22 13:54	
Hexachlorobutadiene	0.50 U	0.50	1	05/25/22 13:54	
Isopropylbenzene	0.50 U	0.50	1	05/25/22 13:54	
p-Isopropyltoluene	0.50 U	0.50	1	05/25/22 13:54	
Methylene Chloride	0.50 U	0.50	1	05/25/22 13:54	
Naphthalene	0.50 U	0.50	1	05/25/22 13:54	
n-Propylbenzene	0.50 U	0.50	1	05/25/22 13:54	
Styrene	0.50 U	0.50	1	05/25/22 13:54	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 13:54	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 13:54	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: WAL19Pre-0522
Lab Code: R2204576-003

Service Request: R2204576
Date Collected: 05/18/22 10:10
Date Received: 05/19/22 09:40

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	05/25/22 13:54	
Toluene	0.50 U	0.50	1	05/25/22 13:54	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	05/25/22 13:54	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	05/25/22 13:54	
1,1,2-Trichloroethane	0.50 U	0.50	1	05/25/22 13:54	
Trichloroethene	2.8	0.50	1	05/25/22 13:54	
Trichlorofluoromethane	0.50 U	0.50	1	05/25/22 13:54	
1,2,3-Trichloropropane	0.50 U	0.50	1	05/25/22 13:54	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	05/25/22 13:54	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	05/25/22 13:54	
Vinyl Chloride	0.50 U	0.50	1	05/25/22 13:54	
m,p-Xylenes	1.0 U	1.0	1	05/25/22 13:54	
o-Xylene	0.50 U	0.50	1	05/25/22 13:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	70 - 130	05/25/22 13:54	
1,2-Dichlorobenzene-d4	100	70 - 130	05/25/22 13:54	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request: R2204576
Date Collected: 05/18/22 11:00
Date Received: 05/19/22 09:40

Sample Name: SWS1-0522
Lab Code: R2204576-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	05/24/22 00:13	
Benzene	5.0 U	5.0	1	05/24/22 00:13	
Bromodichloromethane	5.0 U	5.0	1	05/24/22 00:13	
Bromoform	5.0 U	5.0	1	05/24/22 00:13	
Bromomethane	5.0 U	5.0	1	05/24/22 00:13	
2-Butanone (MEK)	10 U	10	1	05/24/22 00:13	
Carbon Disulfide	10 U	10	1	05/24/22 00:13	
Carbon Tetrachloride	5.0 U	5.0	1	05/24/22 00:13	
Chlorobenzene	5.0 U	5.0	1	05/24/22 00:13	
Chloroethane	5.0 U	5.0	1	05/24/22 00:13	
Chloroform	5.0 U	5.0	1	05/24/22 00:13	
Chloromethane	5.0 U	5.0	1	05/24/22 00:13	
Dibromochloromethane	5.0 U	5.0	1	05/24/22 00:13	
1,1-Dichloroethane	5.0 U	5.0	1	05/24/22 00:13	
1,2-Dibromoethane	5.0 U	5.0	1	05/24/22 00:13	
1,2-Dichloroethane	5.0 U	5.0	1	05/24/22 00:13	
1,1-Dichloroethene	5.0 U	5.0	1	05/24/22 00:13	
cis-1,2-Dichloroethene	5.0 U	5.0	1	05/24/22 00:13	
trans-1,2-Dichloroethene	5.0 U	5.0	1	05/24/22 00:13	
1,2-Dichloropropane	5.0 U	5.0	1	05/24/22 00:13	
cis-1,3-Dichloropropene	5.0 U	5.0	1	05/24/22 00:13	
trans-1,3-Dichloropropene	5.0 U	5.0	1	05/24/22 00:13	
Ethylbenzene	5.0 U	5.0	1	05/24/22 00:13	
2-Hexanone	10 U	10	1	05/24/22 00:13	
Methylene Chloride	5.0 U	5.0	1	05/24/22 00:13	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	05/24/22 00:13	
Styrene	5.0 U	5.0	1	05/24/22 00:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	05/24/22 00:13	
Tetrachloroethene	5.0 U	5.0	1	05/24/22 00:13	
Toluene	5.0 U	5.0	1	05/24/22 00:13	
1,1,1-Trichloroethane	5.0 U	5.0	1	05/24/22 00:13	
1,1,2-Trichloroethane	5.0 U	5.0	1	05/24/22 00:13	
Trichloroethene	5.0 U	5.0	1	05/24/22 00:13	
Vinyl Chloride	5.0 U	5.0	1	05/24/22 00:13	
o-Xylene	5.0 U	5.0	1	05/24/22 00:13	
m,p-Xylenes	5.0 U	5.0	1	05/24/22 00:13	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water
Sample Name: SWS1-0522
Lab Code: R2204576-004

Service Request: R2204576
Date Collected: 05/18/22 11:00
Date Received: 05/19/22 09:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	05/24/22 00:13	
Toluene-d8	99	87 - 121	05/24/22 00:13	
Dibromofluoromethane	97	80 - 116	05/24/22 00:13	



Metals

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water
Sample Name: SWS1-0522
Lab Code: R2204576-004

Service Request: R2204576
Date Collected: 05/18/22 11:00
Date Received: 05/19/22 09:40

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	05/24/22 20:35	05/23/22	
Barium, Total	6010C	39	ug/L	20	1	05/24/22 20:35	05/23/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	05/24/22 20:35	05/23/22	
Calcium, Total	6010C	58600	ug/L	1000	1	05/24/22 20:35	05/23/22	
Chromium, Total	6010C	10 U	ug/L	10	1	05/24/22 20:35	05/23/22	
Copper, Total	6010C	20 U	ug/L	20	1	05/24/22 20:35	05/23/22	
Iron, Total	6010C	290	ug/L	100	1	05/24/22 20:35	05/23/22	
Lead, Total	6010C	50 U	ug/L	50	1	05/24/22 20:35	05/23/22	
Magnesium, Total	6010C	17900	ug/L	1000	1	05/24/22 20:35	05/23/22	
Manganese, Total	6010C	184	ug/L	10	1	05/24/22 20:35	05/23/22	
Nickel, Total	6010C	40 U	ug/L	40	1	05/24/22 20:35	05/23/22	
Potassium, Total	6010C	2400	ug/L	2000	1	05/24/22 20:35	05/23/22	
Selenium, Total	6010C	10 U	ug/L	10	1	05/24/22 20:35	05/23/22	
Sodium, Total	6010C	55400	ug/L	1000	1	05/24/22 20:35	05/23/22	
Zinc, Total	6010C	34	ug/L	20	1	05/24/22 20:35	05/23/22	



General Chemistry

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water
Sample Name: SWS1-0522
Lab Code: R2204576-004

Service Request: R2204576
Date Collected: 05/18/22 11:00
Date Received: 05/19/22 09:40

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	190	mg/L	2.0	1	05/23/22 18:39	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	05/20/22 22:24	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	05/19/22 10:59	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	05/19/22 21:09	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	8.7	mg/L	1.0	1	05/27/22 02:08	NA	
Chemical Oxygen Demand, Total	410.4	30.7	mg/L	5.0	1	05/24/22 20:40	NA	
Chloride	300.0	110	mg/L	6.0	30	05/24/22 22:31	NA	
Color, True	SM 2120 B-2001(2011)	35.0	ColorUnits	1.0	1	05/19/22 14:15	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	05/19/22 21:09	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.59	mg/L	0.20	1	05/25/22 13:35	05/24/22	
pH of Color Analysis	SM 2120 B-2001(2011)	7.74	pH Units	-	1	05/19/22 14:15	NA	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	05/24/22 03:47	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	388	mg/L	10	1	05/24/22 10:10	NA	
Sulfate	300.0	2.1	mg/L	2.0	10	05/19/22 21:09	NA	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water

Service Request: R2204576

SURROGATE RECOVERY SUMMARY
Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Extraction Method:

Sample Name	Lab Code	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
		70-130	70-130
WAL19Post-0522	R2204576-001	103	101
WAL19Inter-0522	R2204576-002	104	101
WAL19Pre-0522	R2204576-003	101	100
Method Blank	RQ2205868-05	101	96
Lab Control Sample	RQ2205868-03	112	111
Duplicate Lab Control Sample	RQ2205868-04	111	111

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: Method Blank
Lab Code: RQ2205868-05

Service Request: R2204576
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	1	05/25/22 12:12	
Bromobenzene	0.50 U	0.50	1	05/25/22 12:12	
Bromochloromethane	0.50 U	0.50	1	05/25/22 12:12	
Bromodichloromethane	0.50 U	0.50	1	05/25/22 12:12	
Bromoform	0.50 U	0.50	1	05/25/22 12:12	
Bromomethane	0.50 U	0.50	1	05/25/22 12:12	
Methyl tert-Butyl Ether	0.50 U	0.50	1	05/25/22 12:12	
tert-Butylbenzene	0.50 U	0.50	1	05/25/22 12:12	
sec-Butylbenzene	0.50 U	0.50	1	05/25/22 12:12	
n-Butylbenzene	0.50 U	0.50	1	05/25/22 12:12	
Carbon Tetrachloride	0.50 U	0.50	1	05/25/22 12:12	
Chlorobenzene	0.50 U	0.50	1	05/25/22 12:12	
Chloroethane	0.50 U	0.50	1	05/25/22 12:12	
Chloroform	0.50 U	0.50	1	05/25/22 12:12	
Chloromethane	0.50 U	0.50	1	05/25/22 12:12	
2-Chlorotoluene	0.50 U	0.50	1	05/25/22 12:12	
4-Chlorotoluene	0.50 U	0.50	1	05/25/22 12:12	
Dibromochloromethane	0.50 U	0.50	1	05/25/22 12:12	
Dibromomethane	0.50 U	0.50	1	05/25/22 12:12	
1,2-Dichlorobenzene	0.50 U	0.50	1	05/25/22 12:12	
1,4-Dichlorobenzene	0.50 U	0.50	1	05/25/22 12:12	
1,3-Dichlorobenzene	0.50 U	0.50	1	05/25/22 12:12	
Dichlorodifluoromethane	0.50 U	0.50	1	05/25/22 12:12	
1,1-Dichloroethane	0.50 U	0.50	1	05/25/22 12:12	
1,2-Dichloroethane	0.50 U	0.50	1	05/25/22 12:12	
1,1-Dichloroethene	0.50 U	0.50	1	05/25/22 12:12	
trans-1,2-Dichloroethene	0.50 U	0.50	1	05/25/22 12:12	
cis-1,2-Dichloroethene	0.50 U	0.50	1	05/25/22 12:12	
2,2-Dichloropropane	0.50 U	0.50	1	05/25/22 12:12	
1,2-Dichloropropane	0.50 U	0.50	1	05/25/22 12:12	
1,3-Dichloropropane	0.50 U	0.50	1	05/25/22 12:12	
trans-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 12:12	
cis-1,3-Dichloropropene	0.50 U	0.50	1	05/25/22 12:12	
Ethylbenzene	0.50 U	0.50	1	05/25/22 12:12	
Hexachlorobutadiene	0.50 U	0.50	1	05/25/22 12:12	
Isopropylbenzene	0.50 U	0.50	1	05/25/22 12:12	
p-Isopropyltoluene	0.50 U	0.50	1	05/25/22 12:12	
Methylene Chloride	0.50 U	0.50	1	05/25/22 12:12	
Naphthalene	0.50 U	0.50	1	05/25/22 12:12	
n-Propylbenzene	0.50 U	0.50	1	05/25/22 12:12	
Styrene	0.50 U	0.50	1	05/25/22 12:12	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 12:12	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	1	05/25/22 12:12	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water
Sample Name: Method Blank
Lab Code: RQ2205868-05

Service Request: R2204576
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	1	05/25/22 12:12	
Toluene	0.50 U	0.50	1	05/25/22 12:12	
1,2,4-Trichlorobenzene	0.50 U	0.50	1	05/25/22 12:12	
1,2,3-Trichlorobenzene	0.50 U	0.50	1	05/25/22 12:12	
1,1,2-Trichloroethane	0.50 U	0.50	1	05/25/22 12:12	
Trichloroethene	0.50 U	0.50	1	05/25/22 12:12	
Trichlorofluoromethane	0.50 U	0.50	1	05/25/22 12:12	
1,2,3-Trichloropropane	0.50 U	0.50	1	05/25/22 12:12	
1,3,5-Trimethylbenzene	0.50 U	0.50	1	05/25/22 12:12	
1,2,4-Trimethylbenzene	0.50 U	0.50	1	05/25/22 12:12	
Vinyl Chloride	0.50 U	0.50	1	05/25/22 12:12	
m,p-Xylenes	1.0 U	1.0	1	05/25/22 12:12	
o-Xylene	0.50 U	0.50	1	05/25/22 12:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	70 - 130	05/25/22 12:12	
1,2-Dichlorobenzene-d4	96	70 - 130	05/25/22 12:12	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water

Service Request: R2204576
Date Analyzed: 05/25/22

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2205868-03				Duplicate Lab Control Sample RQ2205868-04				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzene	524.2	5.46	5.00	109	5.37	5.00	107	70-130	2	20
Bromobenzene	524.2	5.88	5.00	118	5.85	5.00	117	70-130	<1	20
Bromochloromethane	524.2	5.49	5.00	110	5.31	5.00	106	70-130	3	20
Bromodichloromethane	524.2	5.29	5.00	106	5.17	5.00	103	70-130	2	20
Bromoform	524.2	5.97	5.00	119	6.08	5.00	122	70-130	2	20
Bromomethane	524.2	5.70	5.00	114	5.53	5.00	111	70-130	3	20
Methyl tert-Butyl Ether	524.2	5.21	5.00	104	5.22	5.00	104	70-130	<1	20
tert-Butylbenzene	524.2	6.39	5.00	128	6.34	5.00	127	70-130	<1	20
sec-Butylbenzene	524.2	6.52	5.00	130	6.38	5.00	128	70-130	2	20
n-Butylbenzene	524.2	6.55	5.00	131 *	6.39	5.00	128	70-130	2	20
Carbon Tetrachloride	524.2	5.93	5.00	119	5.58	5.00	112	70-130	6	20
Chlorobenzene	524.2	5.92	5.00	118	5.77	5.00	115	70-130	3	20
Chloroethane	524.2	5.79	5.00	116	5.52	5.00	110	70-130	5	20
Chloroform	524.2	4.89	5.00	98	4.82	5.00	96	70-130	1	20
Chloromethane	524.2	7.12	5.00	142 *	6.87	5.00	137 *	70-130	4	20
2-Chlorotoluene	524.2	6.21	5.00	124	6.05	5.00	121	70-130	3	20
4-Chlorotoluene	524.2	6.17	5.00	123	6.01	5.00	120	70-130	3	20
Dibromochloromethane	524.2	5.37	5.00	107	5.34	5.00	107	70-130	<1	20
Dibromomethane	524.2	5.30	5.00	106	5.25	5.00	105	70-130	<1	20
1,2-Dichlorobenzene	524.2	5.98	5.00	120	5.91	5.00	118	70-130	1	20
1,4-Dichlorobenzene	524.2	6.06	5.00	121	6.02	5.00	120	70-130	<1	20
1,3-Dichlorobenzene	524.2	6.16	5.00	123	6.04	5.00	121	70-130	2	20
Dichlorodifluoromethane	524.2	6.40	5.00	128	6.04	5.00	121	70-130	6	20
1,1-Dichloroethane	524.2	5.54	5.00	111	5.51	5.00	110	70-130	<1	20
1,2-Dichloroethane	524.2	5.36	5.00	107	5.27	5.00	105	70-130	2	20
1,1-Dichloroethene	524.2	5.81	5.00	116	5.71	5.00	114	70-130	2	20
trans-1,2-Dichloroethene	524.2	5.89	5.00	118	5.74	5.00	115	70-130	3	20
cis-1,2-Dichloroethene	524.2	5.64	5.00	113	5.52	5.00	110	70-130	2	20
2,2-Dichloropropane	524.2	6.52	5.00	130	6.22	5.00	124	70-130	5	20
1,2-Dichloropropane	524.2	5.46	5.00	109	5.50	5.00	110	70-130	<1	20
1,3-Dichloropropane	524.2	5.37	5.00	107	5.50	5.00	110	70-130	2	20
trans-1,3-Dichloropropene	524.2	5.54	5.00	111	5.53	5.00	111	70-130	<1	20
cis-1,3-Dichloropropene	524.2	5.49	5.00	110	5.46	5.00	109	70-130	<1	20

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Drinking Water

Service Request: R2204576
Date Analyzed: 05/25/22

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2205868-03				Duplicate Lab Control Sample RQ2205868-04					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethylbenzene	524.2	6.08	5.00	122	5.91	5.00	118	70-130	3	20
Hexachlorobutadiene	524.2	7.04	5.00	141 *	6.65	5.00	133 *	70-130	6	20
Isopropylbenzene	524.2	6.45	5.00	129	6.31	5.00	126	70-130	2	20
p-Isopropyltoluene	524.2	6.40	5.00	128	6.19	5.00	124	70-130	3	20
Methylene Chloride	524.2	5.23	5.00	105	5.36	5.00	107	70-130	2	20
Naphthalene	524.2	5.67	5.00	113	6.07	5.00	121	70-130	7	20
n-Propylbenzene	524.2	6.51	5.00	130	6.35	5.00	127	70-130	2	20
Styrene	524.2	6.02	5.00	120	5.87	5.00	117	70-130	3	20
1,1,1,2-Tetrachloroethane	524.2	5.97	5.00	119	6.07	5.00	121	70-130	2	20
1,1,2,2-Tetrachloroethane	524.2	5.86	5.00	117	6.04	5.00	121	70-130	3	20
Tetrachloroethene	524.2	6.34	5.00	127	5.99	5.00	120	70-130	6	20
Toluene	524.2	5.62	5.00	112	5.57	5.00	111	70-130	<1	20
1,2,4-Trichlorobenzene	524.2	5.85	5.00	117	5.92	5.00	118	70-130	1	20
1,2,3-Trichlorobenzene	524.2	5.63	5.00	113	5.77	5.00	115	70-130	2	20
1,1,2-Trichloroethane	524.2	5.47	5.00	109	5.52	5.00	110	70-130	<1	20
Trichloroethene	524.2	5.85	5.00	117	5.62	5.00	112	70-130	4	20
Trichlorofluoromethane	524.2	5.90	5.00	118	5.70	5.00	114	70-130	3	20
1,2,3-Trichloropropane	524.2	5.70	5.00	114	5.89	5.00	118	70-130	3	20
1,3,5-Trimethylbenzene	524.2	6.35	5.00	127	6.14	5.00	123	70-130	3	20
1,2,4-Trimethylbenzene	524.2	6.21	5.00	124	6.18	5.00	124	70-130	<1	20
Vinyl Chloride	524.2	5.65	5.00	113	5.50	5.00	110	70-130	3	20
m,p-Xylenes	524.2	12.7	10.0	127	12.2	10.0	122	70-130	4	20
o-Xylene	524.2	6.14	5.00	123	6.01	5.00	120	70-130	2	20

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request: R2204576

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Toluene-d8	Dibromofluoromethane
		85-122	87-121	80-116
SWS1-0522	R2204576-004	92	99	97
Method Blank	RQ2205768-04	94	102	101
Lab Control Sample	RQ2205768-03	98	101	100

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request: R2204576
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2205768-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	05/23/22 22:46	
Benzene	5.0 U	5.0	1	05/23/22 22:46	
Bromodichloromethane	5.0 U	5.0	1	05/23/22 22:46	
Bromoform	5.0 U	5.0	1	05/23/22 22:46	
Bromomethane	5.0 U	5.0	1	05/23/22 22:46	
2-Butanone (MEK)	10 U	10	1	05/23/22 22:46	
Carbon Disulfide	10 U	10	1	05/23/22 22:46	
Carbon Tetrachloride	5.0 U	5.0	1	05/23/22 22:46	
Chlorobenzene	5.0 U	5.0	1	05/23/22 22:46	
Chloroethane	5.0 U	5.0	1	05/23/22 22:46	
Chloroform	5.0 U	5.0	1	05/23/22 22:46	
Chloromethane	5.0 U	5.0	1	05/23/22 22:46	
Dibromochloromethane	5.0 U	5.0	1	05/23/22 22:46	
1,1-Dichloroethane	5.0 U	5.0	1	05/23/22 22:46	
1,2-Dibromoethane	5.0 U	5.0	1	05/23/22 22:46	
1,2-Dichloroethane	5.0 U	5.0	1	05/23/22 22:46	
1,1-Dichloroethene	5.0 U	5.0	1	05/23/22 22:46	
cis-1,2-Dichloroethene	5.0 U	5.0	1	05/23/22 22:46	
trans-1,2-Dichloroethene	5.0 U	5.0	1	05/23/22 22:46	
1,2-Dichloropropane	5.0 U	5.0	1	05/23/22 22:46	
cis-1,3-Dichloropropene	5.0 U	5.0	1	05/23/22 22:46	
trans-1,3-Dichloropropene	5.0 U	5.0	1	05/23/22 22:46	
Ethylbenzene	5.0 U	5.0	1	05/23/22 22:46	
2-Hexanone	10 U	10	1	05/23/22 22:46	
Methylene Chloride	5.0 U	5.0	1	05/23/22 22:46	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	05/23/22 22:46	
Styrene	5.0 U	5.0	1	05/23/22 22:46	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	05/23/22 22:46	
Tetrachloroethene	5.0 U	5.0	1	05/23/22 22:46	
Toluene	5.0 U	5.0	1	05/23/22 22:46	
1,1,1-Trichloroethane	5.0 U	5.0	1	05/23/22 22:46	
1,1,2-Trichloroethane	5.0 U	5.0	1	05/23/22 22:46	
Trichloroethene	5.0 U	5.0	1	05/23/22 22:46	
Vinyl Chloride	5.0 U	5.0	1	05/23/22 22:46	
o-Xylene	5.0 U	5.0	1	05/23/22 22:46	
m,p-Xylenes	5.0 U	5.0	1	05/23/22 22:46	

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2205768-04

Service Request: R2204576
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	05/23/22 22:46	
Toluene-d8	102	87 - 121	05/23/22 22:46	
Dibromofluoromethane	101	80 - 116	05/23/22 22:46	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request: R2204576
Date Analyzed: 05/23/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2205768-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	20.0	20.0	100	40-161
Benzene	8260C	20.9	20.0	104	79-119
Bromodichloromethane	8260C	19.8	20.0	99	81-123
Bromoform	8260C	17.0	20.0	85	65-146
Bromomethane	8260C	18.2	20.0	91	42-166
2-Butanone (MEK)	8260C	18.4	20.0	92	61-137
Carbon Disulfide	8260C	20.7	20.0	104	66-128
Carbon Tetrachloride	8260C	19.1	20.0	95	70-127
Chlorobenzene	8260C	19.4	20.0	97	80-121
Chloroethane	8260C	20.8	20.0	104	62-131
Chloroform	8260C	21.7	20.0	108	79-120
Chloromethane	8260C	24.7	20.0	123	65-135
Dibromochloromethane	8260C	17.3	20.0	87	72-128
1,1-Dichloroethane	8260C	21.5	20.0	108	80-124
1,2-Dibromoethane	8260C	19.4	20.0	97	82-127
1,2-Dichloroethane	8260C	21.4	20.0	107	71-127
1,1-Dichloroethene	8260C	21.5	20.0	107	71-118
cis-1,2-Dichloroethene	8260C	21.5	20.0	107	80-121
trans-1,2-Dichloroethene	8260C	21.0	20.0	105	73-118
1,2-Dichloropropane	8260C	19.3	20.0	96	80-119
cis-1,3-Dichloropropene	8260C	19.2	20.0	96	77-122
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	71-133
Ethylbenzene	8260C	20.5	20.0	103	76-120
2-Hexanone	8260C	18.6	20.0	93	63-124
Methylene Chloride	8260C	21.5	20.0	108	73-122
4-Methyl-2-pentanone (MIBK)	8260C	18.1	20.0	91	66-124
Styrene	8260C	20.5	20.0	103	80-124
1,1,2,2-Tetrachloroethane	8260C	20.1	20.0	100	78-126
Tetrachloroethene	8260C	20.1	20.0	101	72-125
Toluene	8260C	20.7	20.0	103	79-119
1,1,1-Trichloroethane	8260C	22.9	20.0	115	75-125
1,1,2-Trichloroethane	8260C	19.3	20.0	96	82-121
Trichloroethene	8260C	19.7	20.0	99	74-122

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request: R2204576

Date Analyzed: 05/23/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L

Basis:NA

Lab Control Sample

RQ2205768-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260C	20.8	20.0	104	74-159
o-Xylene	8260C	21.0	20.0	105	79-123
m,p-Xylenes	8260C	42.2	40.0	105	80-126



Metals

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2204576-MB

Service Request: R2204576
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	05/24/22 19:20	05/23/22	
Barium, Total	6010C	20 U	ug/L	20	1	05/24/22 19:20	05/23/22	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	05/24/22 19:20	05/23/22	
Calcium, Total	6010C	1000 U	ug/L	1000	1	05/24/22 19:20	05/23/22	
Chromium, Total	6010C	10 U	ug/L	10	1	05/24/22 19:20	05/23/22	
Copper, Total	6010C	20 U	ug/L	20	1	05/24/22 19:20	05/23/22	
Iron, Total	6010C	100 U	ug/L	100	1	05/24/22 19:20	05/23/22	
Lead, Total	6010C	50 U	ug/L	50	1	05/24/22 19:20	05/23/22	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	05/24/22 19:20	05/23/22	
Manganese, Total	6010C	10 U	ug/L	10	1	05/24/22 19:20	05/23/22	
Nickel, Total	6010C	40 U	ug/L	40	1	05/24/22 19:20	05/23/22	
Potassium, Total	6010C	2000 U	ug/L	2000	1	05/24/22 19:20	05/23/22	
Selenium, Total	6010C	10 U	ug/L	10	1	05/24/22 19:20	05/23/22	
Sodium, Total	6010C	1000 U	ug/L	1000	1	05/24/22 19:20	05/23/22	
Zinc, Total	6010C	20 U	ug/L	20	1	05/24/22 19:20	05/23/22	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request: R2204576

Date Analyzed: 05/24/22

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L

Basis:NA

Lab Control Sample
R2204576-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	37.7	40	94	80-120
Barium, Total	6010C	2150	2000	108	80-120
Cadmium, Total	6010C	52.4	50.0	105	80-120
Calcium, Total	6010C	2100	2000	105	80-120
Chromium, Total	6010C	211	200	105	80-120
Copper, Total	6010C	253	250	101	80-120
Iron, Total	6010C	1040	1000	104	80-120
Lead, Total	6010C	520	500	104	80-120
Magnesium, Total	6010C	2090	2000	104	80-120
Manganese, Total	6010C	515	500	103	80-120
Nickel, Total	6010C	526	500	105	80-120
Potassium, Total	6010C	20300	20000	102	80-120
Selenium, Total	6010C	1020	1010	101	80-120
Sodium, Total	6010C	20400	20000	102	80-120
Zinc, Total	6010C	515	500	103	80-120



General Chemistry

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Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2204576-MB

Service Request: R2204576
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	05/23/22 16:15	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	05/20/22 22:00	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	05/19/22 16:08	NA	
Bromide	300.0	0.10 U	mg/L	0.10	1	05/19/22 19:39	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	05/26/22 20:02	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	05/24/22 20:40	NA	
Chloride	300.0	0.20 U	mg/L	0.20	1	05/24/22 21:10	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	05/19/22 14:15	NA	
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	05/19/22 19:39	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	05/25/22 13:13	05/24/22	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	05/24/22 02:59	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	10 U	mg/L	10	1	05/24/22 10:10	NA	
Sulfate	300.0	0.20 U	mg/L	0.20	1	05/19/22 19:39	NA	

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request:R2204576
Date Collected:05/18/22
Date Received:05/19/22
Date Analyzed:5/19/22

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: SWS1-0522 **Units:**mg/L
Lab Code: R2204576-004 **Basis:**NA

Analyte Name	Method	Sample Result	Result	Matrix Spike R2204576-004MS			Duplicate Matrix Spike R2204576-004DMS			RPD	RPD Limit
				Spike Amount	% Rec	Result	Spike Amount	% Rec	Limits		
Bromide	300.0	1.0 U	9.8	10.0	98	9.9	10.0	99	90-110	2	20
Nitrate as Nitrogen	300.0	1.0 U	9.7	10.0	97	9.8	10.0	98	90-110	1	20
Sulfate	300.0	2.1	21.9	20.0	99	22.2	20.0	101	90-110	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF - Seimannual Sampling
Sample Matrix: Water

Service Request: R2204576
Date Analyzed: 05/19/22 - 05/26/22

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2204576-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	21.9	20.0	110	80-120
Ammonia as Nitrogen, undistilled	350.1	0.253	0.250	101	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	179	198	90	85-115
Bromide	300.0	0.96	1.00	96	90-110
Carbon, Total Organic (TOC)	SM 5310 B-2014	23.5	25.0	94	80-121
Chemical Oxygen Demand, Total	410.4	51.2	50.0	102	90-110
Chloride	300.0	1.98	2.00	99	90-110
Nitrate as Nitrogen	300.0	0.962	1.00	96	90-110
Nitrogen, Total Kjeldahl (TKN)	351.2	2.36	2.50	94	90-110
Phenolics, Total Recoverable	420.4	0.0388	0.0400	97	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-2015	914	914	100	90-110
Sulfate	300.0	1.94	2.00	97	90-110

Appendix G

Residential Sampling Result Letters



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

June 24, 2022

Ms. LaDue
3914 Snyder Road
Wellsville, New York 14895

Dear Ms. LaDue:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results from the May 18, 2022 sampling of your water supply located at 3914 Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-19. As you are aware, your water supply is equipped with a granulated activated carbon filtration unit. The results from the May 18, 2022 water samples are compared to the previous two sample results (November 16, 2021 and April 27, 2021) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for a sample collected on that date. The designations "Pre", "Inter" and "Post" indicates the sample was collected pre-filtration, between the carbon filters or post-filtration, respectively. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 0.5 U indicates that the parameter was not detected above the detection limit of 0.5 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively.

The May 18, 2022 sample results from your water supply are within the above referenced standards. The only detected compounds are cis-1,2-Dichloroethene and Trichloroethene in the sample collected prior to filtration.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Megan Kuczka (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Brandes". The signature is written in a cursive style with a large initial "J" and "B".

Jonathan Brandes, PG
Senior Geologist

cc: Dean Arnold – Director of Public Works, Village of Wellsville
Megan Kuczka (NYSDEC)
Charlotte Bethoney (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

**WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York**

Parameter	WAL-19 Pre 4/27/2021	WAL-19 Inter 4/27/2021	WAL-19 Post 4/27/2021	WAL-19 Pre 11/16/2021	WAL-19 Inter 11/16/2021	WAL-19 Post 11/16/2021	WAL-19 Pre 5/18/2022	WAL-19 Inter 5/18/2022	WAL-19 Post 5/18/2022	Class GA Standard	NYSDOH MCL
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Volatile Organic Compounds (VOCs)

1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U							5	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloropropene	0.5 U	0.5 U	0.5 U							5	5
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.04	5
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	5
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
2-Chlorotoluene				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
4-Chlorotoluene				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromodichloromethane				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromoform				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Carbon tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroform				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7	80
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
cis-1,2-Dichloroethene	2.5	0.5 U	0.5 U	1.9	0.5 U	0.5 U	1.9	0.5 U	0.5 U	5	5
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Dibromochloromethane				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5

Table 1

WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL-19 Pre 4/27/2021	WAL-19 Inter 4/27/2021	WAL-19 Post 4/27/2021	WAL-19 Pre 11/16/2021	WAL-19 Inter 11/16/2021	WAL-19 Post 11/16/2021	WAL-19 Pre 5/18/2022	WAL-19 Inter 5/18/2022	WAL-19 Post 5/18/2022	Class GA Standard	NYSDOH MCL
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VOCs Continued

Dichloromethane (Methylene chloride)	0.56	0.95	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Ethyl benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Isopropylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
m&p-Xylene	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U	1 U	1 U	1 U	5	5
Methyl tert-butyl ether (MTBE)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	10
n-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
n-Propylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
o-Chlorotoluene	0.5 U	0.5 U	0.5 U							5	5
o-Xylene	0.25 U	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
p-Chlorotoluene	0.5 U	0.5 U	0.5 U							5	5
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Trichloroethene	3	0.5 U	0.5 U	2.5	0.5 U	0.5 U	2.8	0.5 U	0.5 U	5	5
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Vinyl chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	2
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	5
Naphthalene				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	50

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations do not exceed NYSDOH MCL or Class GA Standards

U - Compound not detected at specified detection limit

Pre - Indicates sample collected pre-filtration

Inter - Indicates sample collected between first and second carbon filter

Post - Indicated sample collect post-filtration



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

February 27, 2023

Mr. John Carl
3987 Snyder Rd
Wellsville, NY 14895

Dear Mr. Carl:

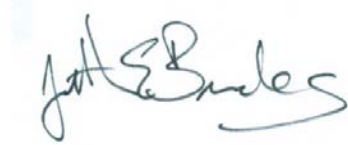
On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results from the October 21, 2022 sampling of your water supply located on Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-1. The results from the October 21, 2022 water sample are compared to the previous two sample results (October 22, 2021 and October 28, 2020) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for the sample collected on that date. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 10 U indicates that the parameter was not detected above the detection limit of 10 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively.

The October 21, 2022 sample results are within New York State drinking water and groundwater standards.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Brandes". The signature is fluid and cursive, with a long horizontal stroke at the end.

Jonathan Brandes, P.G.
Senior Geologist

cc: Dean Arnold (Village of Wellsville)
Taylor Monnin (NYSDEC)
Charlotte Bethoney (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

WAL-1 (Last 3 Samplings)
Residential Water Supply Analytical
Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL1-1020 10/28/2020	WAL1-1021 10/22/2021	WAL1-1022 10/21/2022	Class GA Standard	NYSDOH MCL
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Inorganic Compounds

Arsenic	10 U	10 U	2.5	25	10
Barium	71	70	62.7	1000	2000
Cadmium	5 U	5 U	1 U	5	5
Calcium	38400	41600	42300		
Chromium	10 U	10 U	10 U	50	100
Copper	20 U	20 U	1.9	200	1300
Iron	100 U	100 U	100 U	300	300
Lead	50 U	50 U	1 U	25	15
Magnesium	13000	13700	14000		
Manganese	110	84	99	300	300
Nickel	40 U	40 U	1 U	100	100
Potassium	2000 U	2000 U	2000 U		
Selenium	10 U	10 U	2 U	10	50
Sodium	8000	8700	9400	20000	
Zinc	20 U	22	37		5000

Volatile Organic Compounds (VOCs)

1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	5	5
1,1,1-Trichloroethane	0.5 U			5	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	5	5
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	1	5
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloropropene	0.5 U			5	5
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.04	5
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	5	5
1,2-Dibromo-3-chloropropane	0.5 U			0.04	0.2
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	3	5
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.6	5
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	1	5
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	5	5
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	3	5
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	5	5
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	3	5
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	5	5
2-Chlorotoluene		0.5 U	0.5 U	5	5
4-Chlorotoluene		0.5 U	0.5 U	5	5
Benzene	0.5 U	0.5 U	0.5 U	1	5
Bromobenzene	0.5 U	0.5 U	0.5 U	5	5
Bromochloromethane	0.5 U	0.5 U	0.5 U	5	5
Bromodichloromethane		0.5 U	0.5 U	5	80
Bromoform		0.5 U	0.5 U	5	80
Bromomethane	0.5 U	0.5 U	0.5 U	5	5

Table 1

WAL-1 (Last 3 Samplings)
Residential Water Supply Analytical
Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL1-1020 10/28/2020	WAL1-1021 10/22/2021	WAL1-1022 10/21/2022	Class GA Standard	NYSDOH MCL
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Volatile Organic Compounds (con't)

Carbon tetrachloride	0.5 U	0.5 U	0.5 U	5	5
Chlorobenzene	0.5 U	0.5 U	0.5 U	5	5
Chloroethane	0.5 U	0.5 U		5	5
Chloroform		0.5 U	0.5 U	7	80
Chloromethane	0.5 U	0.5 U	0.5 U	5	5
cis-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	5	5
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.4	5
Dibromochloromethane		0.5 U	0.5 U	5	80
Dibromomethane	0.5 U	0.5 U	0.5 U	5	5
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	5	5
Dichloromethane (Methylene chloride)	0.5 U	0.5 U	0.5 U	5	5
Ethyl benzene	0.5 U	0.5 U	0.5 U	5	5
Isopropylbenzene	0.5 U	0.5 U	0.5 U	5	5
m&p-Xylene	0.25 U	1 U	1 U	5	5
Methyl tert-butyl ether (MTBE)		0.5 U	0.5 U	5	10
n-Butylbenzene	0.5 U	0.5 U	0.5 U	5	5
n-Propylbenzene	0.5 U	0.5 U	0.5 U	5	5
o-Chlorotoluene	0.5 U			5	5
o-Xylene	0.25 U	0.5 U	0.5 U	5	5
p-Chlorotoluene	0.5 U			5	5
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	5	5
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	5	5
Styrene	0.5 U	0.5 U	0.5 U	5	5
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	5	5
Tetrachloroethene	0.5 U	0.5 U	0.5 U	5	5
Toluene	0.5 U	0.5 U	0.5 U	5	5
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	5	5
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.4	5
Trichloroethene	0.5 U	0.5 U	0.5 U	5	5
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	5	5
Vinyl chloride		0.5 U	0.5 U	2	2
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	5	5
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	5	5
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5	5
Naphthalene		0.5 U	0.5 U	5	50

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations do not exceed NYSDOH MCL or Class GA Standards

U - Compound not detected at specified detection limit



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

February 27, 2023

Mr. Phil Rosini
72 Havenshire Rd
Rochester, NY 14625

Dear Mr. Rosini:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results for the November 21, 2022 sampling of your camp water supply located on Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-2. The results from the November 21, 2022 water sample are compared to the previous two sample results (October 23, 2021 and November 14, 2020) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for the sample collected on that date. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 10 U indicates that the parameter was not detected above the detection limit of 10 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively. Any sample result exceeding either or both standard is printed in **BOLD** on the attached table.

The November 21, 2022 results show Iron at 480 mcg/L and Manganese at 569 mcg/L are above both NYSDOH MCL and Class GA Standards. Sodium was also detected at 56100 mcg/L, which exceeds the Class GA Standard. These are naturally occurring inorganic compounds and sample results are consistent with historic samplings and ambient groundwater quality.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Brandes". The signature is written in a cursive, flowing style.

Jonathan Brandes, PG
Senior Geologist

cc: Dean Arnold (Village of Wellsville)
Taylor Monnin (NYSDEC)
Charlotte Bethoney (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

WAL-2 (Last 3 Samplings)
 Residential Water Supply
 Analytical Results (mcg/L)
 Wellsville/Andover Landfill
 Wellsville, New York

Parameter	WAL2-1120 11/14/2020	WAL2-1021 10/23/2021	WAL2-1122 11/21/2022	Class GA Standard	NYSDOH MCL
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Inorganic Compounds

Arsenic	10 U	10 U	1 U	25	10
Barium	34	33	32	1000	2000
Cadmium	5 U	5 U	1 U	5	5
Calcium	48300	44800	41200		
Chromium	10 U	10 U	10 U	50	100
Copper	20 U	20 U	2.8	200	1300
Iron	830	530	480	300	300
Lead	50 U	50 U	1 U	25	15
Magnesium	16200	14300	13300		
Manganese	873	669	569	300	300
Nickel	40 U	40 U	1 U	100	100
Potassium	2000 U	2000 U	2000 U		
Selenium	10 U	10 U	2 U	10	50
Sodium	42700	53500	56100	20000	
Zinc	20 U	20 U	20 U		5000

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations in **bold** exceed either or both the NYSDOH MCL and Class GA Standards

U - Compound not detected at specified detection limit



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

February 27, 2023

Ms. LaDue
3914 Snyder Road
Wellsville, New York 14895

Dear Ms. LaDue:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results from the October 20, 2022 sampling of your water supply located at 3914 Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-19. As you are aware, your water supply is equipped with a two-stage granulated activated carbon filtration unit. Sampling is conducted before the filters, between the two filters and after the filters. The results from the October 20, 2022 water samples are compared to the previous two sample results (May 18, 2022 and November 16, 2021) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for a sample collected on that date. The designations "Pre", "Inter" and "Post" indicates the sample was collected pre-filtration, between the two carbon filters or post-filtration, respectively. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 0.5 U indicates that the parameter was not detected above the detection limit of 0.5 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively.

The October 20, 2023 sample results from your water supply are within the above referenced standards. The only detected compounds are cis-1,2-Dichloroethene and Trichloroethene in the sample collected prior to filtration.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Brandes". The signature is written in a cursive style with a large initial "J" and "B".

Jonathan Brandes, PG
Senior Geologist

cc: Dean Arnold (Village of Wellsville)
Taylor Monnin (NYSDEC)
Charlotte Bethoney (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL-19 Pre 11/16/2021	WAL-19 Inter 11/16/2021	WAL-19 Post 11/16/2021	WAL-19 Pre 5/18/2022	WAL-19 Inter 5/18/2022	WAL-19 Post 5/18/2022	WAL-19 Pre 10/20/2022	WAL-19 Inter 10/20/2022	WAL-19 Post 10/20/2022	Class GA Standard	NYSDOH MCL
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Volatile Organic Compounds (VOCs)

1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.04	5
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	5
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Carbon tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7	80
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
cis-1,2-Dichloroethene	1.9	0.5 U	0.5 U	1.9	0.5 U	0.5 U	1.6	0.5 U	0.5 U	5	5
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5

Table 1

WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL-19 Pre 11/16/2021	WAL-19 Inter 11/16/2021	WAL-19 Post 11/16/2021	WAL-19 Pre 5/18/2022	WAL-19 Inter 5/18/2022	WAL-19 Post 5/18/2022	WAL-19 Pre 10/20/2022	WAL-19 Inter 10/20/2022	WAL-19 Post 10/20/2022	Class GA Standard	NYSDOH MCL
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Volatile Organic Compounds (con't)

Dichloromethane (Methylene chloride)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Ethyl benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Isopropylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
m&p-Xylene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	5
Methyl tert-butyl ether (MTBE)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	10
n-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
n-Propylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Trichloroethene	2.5	0.5 U	0.5 U	2.8	0.5 U	0.5 U	2.6	0.5 U	0.5 U	5	5
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Vinyl chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	2
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	5
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	50

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations do not exceed NYSDOH MCL or Class GA Standards

U - Compound not detected at specified detection limit

Pre - Indicates sample collected pre-filtration

Inter - Indicates sample collected between first and second carbon filter

Post - Indicated sample collect post-filtration