

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

2013 ANNUAL PERIODIC REVIEW REPORT

**Wellsville/Andover Landfill Site
Operations and Maintenance
Site Number 9-02-004
Allegany County, New York**

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1.0 OVERVIEW

1.1 Introduction

This report presents the 2013 operations and maintenance activities associated with the Wellsville/Andover Landfill Site (Site) located in Wellsville and Andover townships, Allegany County, New York (Figure 1) and has been prepared by On-Site Technical Services, Inc., (On-Site) of Wellsville, New York. This report summarizes operation and maintenance activities performed from January 1 to December 31, 2013. Operation and maintenance requirements for this project are detailed in the *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 the New York State Department of Environmental Conservation (NYSDEC) and the current O&M requirements are outlined in Section 2 of this report (here after referred to as Approved O&M Plan) with details included in Appendix B.

Starting in 2009 the NYSDEC is requiring a Periodic Review Report (PRR) be completed for the Site annually. This report is the 2013 PRR, documenting that site management requirements are being met. The PRR certification is included as Appendix A of this report.

1.2 Project 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 NYSDEC selected capping with waste consolidation as the remedial action in the Record of Decision (ROD) for the site (NYSDEC 1994). To accomplish the remedy, a contract to remove waste from the northwest and northeast fill areas, and consolidate and cap the south/south-central fill area, (please see Figure 2) was awarded to IT Corporation and construction activities commenced in April 1996. 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. Construction activities concluded in September 1997.

The leachate collection system gravity drains to a Leachate Sump (LS-1), from which it is pumped into two 15,000-gal 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 groundwater cutoff trench is intended to capture up-gradient groundwater from the north and east landfill perimeters prior to contacting waste within the landfill. 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 sump. The pipes from the manholes to the drainage channel are closed with removable plugs.

1.3 Summary of 2013 Monitoring, Inspection and Maintenance Activities

This section provides an overview of the monitoring, inspection and maintenance activities completed in 2013.

On-Site completed the following 2013 monitoring events in accordance with procedures set forth in the Approved O&M Plan (Appendix B). Semiannual groundwater and residential monitoring events were conducted in May and October 2013. Details of these monitoring activities are provided in Section 3 through 7. The October 2013 laboratory report is included as Appendix E

Quarterly inspections are conducted and documented on the Quarterly Inspection and Maintenance Checklist by Village of Wellsville personnel. Maintenance activities generally include annual mowing of the cap vegetation (completed October 2013), leachate disposal, leachate collection system maintenance and maintenance of the water treatment unit at the LaDue residence (WAL-19). Additional 2013 maintenance activities included the following.

1. North and South leachate tank cleaning occurred in October 2013.
2. Monitoring well MW-17S surface casing repair and surveying was conducted in summer of 2013.

Quarterly inspection and maintenance checklists are included in Appendix C.

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), which applies to groundwater, residential water supplies, surface water, sediment, leachate, and landfill gas. The most recent revisions to the analytical program were approved in May 2009 and have been implemented starting with the fall 2009 sampling event.

Table 2-1 presents the revised monitoring program, with the current analytical list presented as Table 2-2. Sampling locations are presented in Figure 2. Details of the approved monitoring requirements are provided below.

- A total of five monitoring wells and one residential water supply will be sampled for Volatile Organic Compounds (VOCs) during an annual spring sampling event. During the annual fall sampling events 16 monitoring wells will be sampled for field parameters, VOCs and metals. Surface water location SWS-1, Groundwater cut-off system locations MH-32 and MW-33, and the leachate sampling location LS-1 will be sampled annually in the fall event for the parameters listed on Table 2-1.
- The Village of Wellsville continues to maintain a water filtration system at residential location WAL-19, which is currently owned and occupied by Mr. and Mrs. LaDue at 3914 Snyder Road in Wellsville, NY 14895. This residence will continue to be sampled on a semi-annual basis for VOCs before the filter, inter-filter and after the filter. Residential locations WAL-2 and WAL-5 are sampled on an annual basis during the fall event.
- Static water level elevations are required to be measured in the monitoring wells and five piezometers located on and around the landfill cap as part of sampling events. Water elevations are used to construct potentiometric maps. Table 2-3 provides a tabular listing of the 2013 static water elevations along with well construction information.
- Landfill gas monitoring and perimeter air monitoring are completed during the fall monitoring event for Volatile Organic Compounds (VOCs), Lower Explosive Level (LEL) and Oxygen (O₂).

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.

- 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 water treatment unit at the LaDue residence, located at 3914 Synder Hill Road.

3.0 GROUNDWATER MONITORING RESULTS

Two groundwater monitoring events were completed during 2013. The spring event includes five monitoring wells for VOC analysis, while the fall event is an annual Site wide monitoring event. Prior to purging and collecting groundwater samples, static water levels were measured from the monitoring wells and piezometers. The spring and fall 2013 data were utilized to develop separate potentiometric maps for wells screened in overburden and wells screened in bedrock. The potentiometric maps for 2013 are included as Figures 3 through 6. Each contour represents a line of equivalent groundwater elevation. The direction of groundwater flow is from higher to lower elevation approximately perpendicular to the contours.

Groundwater samples were collected from the five required wells in May 2013, and 16 required wells in October 2013. Table 3-1 exhibits the detection frequency, minimum and maximum detection, NYSDEC Class GA Groundwater Standard (Class GA Standard) and the number of Class GA Standard exceedances for groundwater samples collected in 2012 and 2013. Table 3-2 lists the 2013 Class GA and NYSDOH Maximum Contaminant Level (MCL) exceedances by individual wells. Table 3-3 is a tabular listing of groundwater analytical results from the two sampling events completed in 2013. Monitoring well locations are presented in Figure 2. A discussion of the analytical results is provided below.

Inorganic Compounds (metals)

Groundwater samples were analyzed for fifteen inorganic compounds during the October 2013 sampling event (Table 2-2). As shown in Table 3-1, eight metals (Barium, Calcium, Iron, Magnesium, Manganese, Potassium, Sodium and Zinc) were detected in 2013. The same metals with the exclusion of Zinc were detected in 2012. Iron, Manganese and Sodium exceeded Class GA standards in 2012 and 2013 and are the metals that exceed Class GA Standards on a frequent basis. Based upon NYSDEC request, concentration time trend plots for these three metals have been created. Plots, which include data from 1998 through 2013, are presented in Appendix D for monitoring wells that have shown

NYSDEC Class GA Standard exceedances for these metals. Monitoring wells CW-3A, CW-3B, CW-4A, CW-4B, MW-3S, MW-4D, MW-5D, MW-5S, MW-15S, MW-17S, MW-17D, MW-18S and MW-18D are included. In general, no obvious increasing or decreasing time trends are 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 often occur naturally at the concentrations detected in Site groundwater.

VOCs

Groundwater from each well sampled during both the May and October 2013 sampling events were analyzed for VOCs, which include 36 compounds (Table 2-2). In 2012 and 2013, 20 groundwater samples were analyzed for VOCs. In 2012 and 2013 cis-1,2-dichloroethene (cDCE), trichloroethylene (TCE) and Vinyl chloride were detected and exceeded Class GA Standards. These three VOCs most commonly exceed the Class GA Standard. Based upon NYSDEC request, concentration time trend plots for these three VOCs have been created. The plots include data from 1998 through 2013 and are included in Appendix D for monitoring wells that have shown NYSDEC Class GA Standard exceedances for these compounds. These monitoring wells include CW-3A, CW-3B, CW-4A, CW-4B, MW-3D, MW-4D, MW-5D, MW-5S, MW-11S, MW-15S, MW-16S, 17S and MW-18S. The VOC graphs show some trends as discussed below.

- Well CW-3A exhibited TCE at anomalous high results in June 2005, but has returned to lower levels the last 13 samplings with a decreasing trend evident since September 2007. cDCE has been stable with the exception of an increase in June 2005, while Vinyl chloride has been non-detect except for in June 2005.
- CW-3B shows a potential increasing trend in TCE concentration. cDCE concentrations have generally leveled off and Vinyl chloride has been mainly non-detect.
- CW-4A shows results as non-detect for TCE and Vinyl chloride the last 16 samplings, while cDCE results have been non-detect the last 3 samplings.
- CW-4B shows TCE and Vinyl chloride results as non-detect the last 18 samplings and cDCE has been non-detect the last 12 events.
- MW-3D has shown non-detect or low level concentrations of cDCE, TCE and Vinyl chloride since 2004.
- Historically MW-4D exhibits apparent seasonal fluctuation in VOCs with an inverse proportional relationship to groundwater elevation. Elevated concentrations of primarily cDCE occur when groundwater elevations are low (generally fall) and then decrease when groundwater elevations are high

(generally spring). However, this seasonal fluctuation is not present since 2009. Both cDCE and Vinyl Chloride have been stable or slight decreasing trend since 2009. TCE has been non-detect the last 13 samplings.

- Prior to 2005, well MW-5S exhibits an overall slight decreasing trend in cDCE, TCE and Vinyl chloride. Since 2005 these compounds appear mainly stable.
- MW-5D exhibits no obvious increasing or decreasing trend. However, cDCE has shown a decrease in concentration since 2009.
- MW-11S was sampled in June 1998 and then semi-annually starting in December 2004. Vinyl chloride has remained near or below detection limits. cDCE has shown a slight decreasing trend through 2009 and has shown stable results since 2009. With the exception of the decrease in 2009, TCE does not seem to be following an increasing or decreasing trend. However, TCE concentration appears to be inversely proportional to groundwater elevation, similar to MW-4D.
- Well MW-15S has no discernable trends other than the detection of cDCE at concentrations between 0.011 mg/L and 0.057 mg/L, and TCE and Vinyl chloride have been mostly non-detect or at low level concentrations.
- MW-16S has been sampled on the same frequency as MW-11S. MW-16S cDCE, TCE and Vinyl chloride results are near or below detection limits.
- MW-17S does not seem to follow a time trend but does show a correlation between TCE and Vinyl chloride, while cDCE has shown results of non-detect to 0.13 mg/L. In addition, the October 2013 sampling of MW-17S showed detections of 2-Butanone and Acetone. These detections are likely artifacts from the well repair activity completed in 2013.
- At MW-18S, previously no time trend was obvious, but since 2008 there has been a decreasing trend in cDCE and TCE, while Vinyl chloride has not been detected.

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 during the fall event. SWS-1 was sampled on October 22, 2013. Present and historic surface water and sediment results are presented in Tables 4-1 and 4-2. The 2013 surface water results are below Class C Standards, with the exception of Iron (1.02 mg/L). VOCs are non-detect in 2013.

The 2013 sediment results are typical of historic results and VOCs are not detected.

5.0 LEACHATE SUMP AND MANHOLE MONITORING RESULTS

Water samples are required to be collected at the leachate sump (LS-1) and two manholes (MH-32 and MH-33) annually. Sampling locations are presented in Figure 2. Table 5-1 exhibits the detection frequency, minimum and maximum detection for leachate sump and manhole samples collected in 2012 and 2013. Table 5-2 is a tabular listing of current and historic leachate sump analytical results. Table 5-3 is a tabular listing of current and historic manhole analytical results. Wet Chemistry parameters are no longer required to be analyzed at the Leachate Sump. Nitrate Nitrogen and Total Dissolved Solids (TDS) are required for groundwater cut-off system manhole samples. A discussion of leachate sump and manhole analytical results is provided below.

5.1 Leachate Sump Results

Metals

Metals were analyzed in one leachate sump sample during 2013. Metals detected in 2013 include Barium, Calcium, Iron, Magnesium, Manganese, Potassium and Sodium. The same metals were detected in 2012 with the addition of Arsenic, Lead and Zinc. 2013 results are consistent of historic data.

VOCs

VOCs were analyzed in one leachate sump sample during 2013 with cDCE the only detected VOC. VOC leachate sump results are consistent with historic results.

5.2 Manhole Monitoring Results

Metals

Metals were analyzed in two manhole samples in 2013. Metals detected in 2013 at MH-32 include Barium, Calcium, Iron, Magnesium, Manganese, Potassium and Sodium. The same metals were detected at MH-33 and with the exception of Potassium. 2013 Metals results are consistent with historic data.

VOCs

VOCs were analyzed in two manhole samples in 2013. cDCE, Ethly benzene, m&p-Xylene, Toluene, trans-1,2-Dichloroethene, Trichloroethene and Vinyl chloride were detected at MH-32; while MH-33 exhibited detections of cDCE and Trichloroethene.

2013 VOC results are generally consistent with previous analyses. However several of the MH-32 detections have not been observed in the previous two years.

Wet Chemistry

Nitrate Nitrogen was not detected in MH-32 samples during the last three samplings, while MH-33 analysis shows detections of Nitrate Nitrogen in 2011. TDS has been reported at concentrations ranging from 253 mg/L to 601 mg/L the last three samplings with five of the six results below the Class C surface water standard.

6.0 AIR MONITORING RESULTS

Air monitoring at the landfill perimeter, gas vents and LCS locations was conducted during the Fall 2013 event utilizing a Photo Ionization Detector (PID) and an Oxygen (O₂)/Lower Explosive Limit (LEL) meter (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 0.2 ppm to 126.6 ppm, O₂ levels range from 0.0% to 20.9%, and LEL levels range from 0% to greater than 100%, indicating the presence of methane gas. Upwind and downwind PID and LEL readings at the landfill perimeter were not above background readings indicating no measurable landfill gas at the landfill perimeter. O₂ readings at the landfill perimeter were within normal range. All readings were recorded in tabular form and are presented in Table 6-1.

7.0 RESIDENTIAL WATER SUPPLY MONITORING RESULTS

Two residential water supply sampling events were completed during 2013. The sampling events were conducted in May and October 2013. Prior to the approved revisions to the O&M plan made in May 2009, there were 20 residential water supply locations in the monitoring program. The current monitoring schedule requires that one water supply (WAL-19) be sampled semi-annually (spring and fall) and the remaining two locations (WAL-2 and WAL-5) be sampled annually.

Table 7-1 presents an overview of residential sampling locations and sampling frequencies during 2013. Figure 2 shows the approximate sampling locations.

A total of four residential water samples were collected in 2013. Two out of three residential sampling locations were unavailable in October 2013. WAL-5 was not

sampled in 2013 due to water being shut off for winter and WAL-2 resident did not respond to On-Site as indicated during October 2013 telephone contact. Table 7-2 exhibits the detection frequency, minimum and maximum detection, NYSDOH MCL, number of NYSDOH MCL exceedances, NYSDEC Class GA Standard and the number of Class GA Standard exceedances for both 2012 and 2013. Table 7-3 is a tabular listing of 2013 residential water analytical results. A discussion of the analytical results is provided below.

Metals

Metals are not required to be analyzed at WAL-19.

VOCs

During 2012 and 2013, residential water samples were analyzed for VOCs with two parameters detected (cDCE and TCE). These detections were at WAL-19 prior to filtration and were below the NYSDOH MCLs and NYSDEC Class GA Standards in 2012 and 2013.

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 27, June 21, September 27 and December 16, 2013. No unresolved problems were noted on inspection forms. The 2013 completed inspection forms are included as Appendix C.

A description of maintenance activities performed during 2013 is provided below.

- Village of Wellsville personnel mowed the landfill cap in October 2013.
- Leachate tank and leachate collection influent manhole cleaning was conducted in October 2013. Approximately eight to ten inches of sediment in the North tank and approximately 18 inches in the South tank were removed using a vacuum truck along with approximately 3 feet of sediment in the leachate collection influent manhole. Approximately 1500 gallons and 2100 gallons of sediment and liquid were collected from the North and South tanks, respectively. Removed material was transported to the village of Wellsville POTW for treatment. Also leachate tank floats were inspected and manually activated while observing pump house gauge readings to test for proper operation.
- As observed during the April 2013 sampling event, monitoring well MW-17S

experienced surface casing frost heave. The protective casing and concrete surface seal was lifted approximately six inches above the ground surface. Since the annulus between the PVC well casing and the protective casing was filled with grout, it was necessary to cut the PVC well casing below the protective casing to remove it. The PVC casing was extended to approximately three feet above ground surface. The PVC casing and grout within the protective casing was removed and the protective casing was reinstalled over the newly extended PVC casing. Following this repair the well was re-surveyed by James Ball land surveyor.

- The Village of Wellsville continues to maintain a water treatment unit at the LaDue (WAL-19) residence.

A total of approximately 1,690,269 gallons of leachate was hauled from the Landfill to the Village of Wellsville POTW during 2013. The table below lists the total leachate gallons by year for the previous six years. The increased volume observed during 2011 is directly related to the increase in precipitation during 2011.

Year/Gallons	2008	2009	2010	2011	2012	2013
	1,482,179	1,623,591	1,581,614	2,359,104	1,643,350	1,690,269

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 Site has been monitored for over 15 years following completion of the remedial action. Monitoring will continued as required by the approved plan.

Maintenance activities planned for 2014 include scheduled annual mowing and leachate tank influent manhole cleaning. Also a target range for use by the Village of Wellsville Police Department is being constructed in the northwest portion of the property several hundred yards north of the landfill area.

This 2013 annual report is submitted as part of the Site Management Periodic Review required by the NYSDEC. An electronic copy of this report is included as Appendix F.

Table 2-1

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

Location	Revised Sampling Frequency	Spring Analyte List ¹	Fall Analyte List ¹
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Groundwater

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

Leachate

LS-1	Annual - Fall	NR	Field, VOCs, Metals
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Reporting

Spring Event	Summary Letter ⁴
Fall Event	Summary Letter ⁴
Annual	Detailed Annual Report ⁵

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; and follow up e-mail.)

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

WL - Water level

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, K, Se, Na, Z

- NO₃ = Nitrate Nitrogen and TDS = Total Dissolved Solids

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 Letter reports will include a summary of the sampling event and provide the event's analytical report

⁵ Annual reports will include details of the previous years monitoring and O&M activities along with potentiometric maps and comparison of results to standards and historic results

⁶ Residential VOCs are tested using method 524.2

Location	Revised Sampling Frequency	Spring Analyte List ¹	Fall Analyte List ¹
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Residential Water Supply

WAL-2	Annual - Fall	NR	Metals
WAL-5	Annual - Fall	NR	VOCs ⁶ , Metals
WAL-19	Semiannual - Spring/Fall	VOCs ^{2,6}	VOCs ^{2,6}

Landfill Gas Monitoring

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

Surface Water

SWS-1	Annual - Fall	NR	Field, VOCs, Metals, Wet Chem ³
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Sediment

SWS-1	Annual - Fall	NR	Field, VOCs, Metals, Wet Chem ³
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Groundwater Cut-Off System

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

Table 2-2

Approved Analyte List
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Field Parameters	Volatile Organic Compounds
Specific Conductance	1,1,1-Trichloroethane
Temperature	1,1,2,2-Tetrachloroethane
Field pH	1,1,2-Trichloroethane
Oxygen Reduction Potential	1,1-Dichloroethane
Dissolved Oxygen	1,1-Dichloroethene
Turbidity	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

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

Groundwater Collection 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

Table 2-3

**Well Construction and 2013 Static Water Level Information
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	5/1/2013 DTW From TOC (ft)	5/1/2013 Static Water Elevation (ft amsl)	10/21/2013 DTW From TOC (ft)	10/21/2013 Static Water Elevation (ft amsl)
MW-1D	2	2193.32	2193.75	2190.6	77.39	64 - 74	Bedrock	70.27	2123.05	70.29	2123.03
MW-3D	2	2095.80	2096.07	2092.4	46.75	30 - 40	Bedrock	19.20	2076.60	22.41	2073.39
MW-3S	2	2095.70	2095.96	2093.1	25.92	9 - 19	Overburden	11.88	2083.82	12.86	2082.84
MW-4D	2	2092.22	2092.39	2090.3	24.63	12 - 22	Bedrock	11.06	2081.16	15.05	2077.17
MW-5D	2	2066.87	2067.26	2065.4	37.74	26.5 - 36.5	Bedrock	1.63	2065.24	2.42	2064.45
MW-5S	2	2067.30	2067.59	2065.5	21.20	10 - 20	Overburden	2.12	2065.18	2.29	2065.01
MW-7D	2	2012.13	2012.69	2009.6	47.97	35 - 45	Bedrock	36.45	1975.68	37.69	1974.44
MW-11S	2	2003.52	2003.86	2001.6	20.40	8 - 18	Overburden	6.02	1997.50	6.05	1997.47
MW-15S	2	2022.88	2023.05	2020.2	22.10	9 - 19	Overburden	0.00	<2000.80	20.21	2002.67
MW-15DA	2	2022.67	2023.08	2020.4	56.28	43 - 53	Bedrock	56.13	1966.54	56.12	1966.55
MW-16D	2	1924.73	1925.25	1922.0	53.00	40 - 50	Bedrock	29.72	1895.01	30.63	1894.10
MW-16S	2	1924.98	1925.15	1922.2	18.67	6 - 16	Overburden	9.52	1915.46	14.01	1910.97
MW-17D	4	2037.36	NA	2034.9	65.1	48 - 63 (open hole)	Bedrock	32.64	2004.72	32.91	2004.45
MW-17S	2	2037.59	2037.68	2034.6	26.94	9 - 24	Overburden	10.32	2027.27	8.95	2028.64
MW-18D	4	2066.19	NA	2062.6	28.50	24.5 - 39.5 (open hole)	Bedrock	15.06	2051.13	14.60	2051.59
MW-18S	2	2064.60	2065.72	2063.0	20.49	4 - 19	Overburden	6.98	2057.62	3.81	2060.79
CW-3A	2	2013.75	2013.90	2012.9	27.47	21 - 26	Overburden	9.10	2004.65	10.18	2003.57
CW-3B	2	2013.90	2014.10	2012.9	37.70	33.5 - 38.5	Overburden	22.17	1991.73	21.70	1992.20
CW-4A	2	2006.11	2006.35	2004.7	19.12	13 - 18	Overburden	4.79	2001.32	3.97	2002.14
CW-4B	2	2005.84	2005.93	2004.7	30.16	25.5 - 30.5	Overburden	4.28	2001.56	3.44	2002.40
PZ-1	2	2095.11	2095.27	2092.2	NM	6 - 13	Overburden/ Refuse	14.91	2080.20	12.90	2082.21
PZ-2	2	2095.83	2096.13	2092.9	NM	14 - 24	Overburden/ Refuse	22.78	2073.05	22.50	2073.33
PZ-3R	2	2085.50	2085.79	2084.0	NM	22.5 - 32.5	Overburden/ Refuse	Decommissioned October 2012			
PZ-4	2	2067.13	2067.38	2064.4	NM	12 - 22	Overburden/ Refuse	26.19	2040.94	26.13	2041.00
PZ-5	2	2059.71	2059.71	2056.7	NM	8 - 18	Overburden/ Refuse	10.92	2048.79	10.87	2048.84
PZ-6	2	2042.18	2042.31	2039.2	NM	8 - 18	Overburden/ Refuse	22.48	2019.70	21.09	2021.09

Notes:

ND - No Non-Aqueous Phase Liquid (NAPL) Detected

Dry - Insufficient water volume

NM - Not Measured

NA - Not Applicable

NS - Not Sampled

Table 3-1

**Summary of 2012 and 2013 Groundwater Detection Frequencies
Wellsville/Andover Landfill
Wellsville, New York**

Parameter	2012 Detection Frequency	2012 Minimum	2012 Maximum	2013 Detection Frequency	2013 Minimum	2013 Maximum	Class GA Standard	2012 Class GA Exceedances	2013 Class GA Exceedances
Inorganic Compounds									
Arsenic	0/15			0/17			0.025	0	0
Barium	12/15	0.022	0.089	15/17	0.022	0.085	1	0	0
Cadmium	0/15			0/17			0.005	0	0
Calcium	15/15	15.3	102	17/17	2.8	125			
Chromium	0/15			0/17			0.05	0	0
Copper	0/15			0/17			0.2	0	0
Iron	10/15	0.1	9.25	12/17	0.11	7.58	0.3	7	8
Lead	0/15			0/17			0.025	0	0
Magnesium	15/15	1.5	57.6	16/17	2.2	64.6			
Manganese	12/15	0.024	1.12	15/17	0.011	1.17	0.3	7	9
Nickel	0/15			0/17			0.1	0	0
Potassium	10/15	2.1	19.1	9/17	2.3	16.1			
Selenium	0/15			0/17			0.01	0	0
Sodium	15/15	6.4	63	17/17	1.8	64.6	20	7	6
Zinc	0/15			1/17	0.056	0.056			

Volatile Organic Compounds									
1,1,1-Trichloroethane	0/19			0/22			0.005	0	0
1,1,2,2-Tetrachloroethane	0/19			0/22			0.005	0	0
1,1,2-Trichloroethane	0/19			0/22			0.001	0	0
1,1-Dichloroethane	0/19			0/22			0.005	0	0
1,1-Dichloroethene	0/19			0/22			0.005	0	0
1,2-Dibromoethane	0/19			0/22					
1,2-Dichloroethane	0/19			0/22			0.0006	0	0
1,2-Dichloropropane	0/19			0/22			0.001	0	0
2-Butanone (MEK)	0/19			1/22	0.29	0.29			
2-Hexanone	0/19			0/22					
4-Methyl-2-pentanone	0/19			0/22					
Acetone	0/19			1/22	3.9	3.9			
Benzene	0/19			0/22			0.001	0	0
Bromodichloromethane	0/19			0/22					
Bromoform	0/19			0/22					
Bromomethane	0/19			0/22			0.005	0	0
Carbon disulfide	0/19			0/22					
Carbon tetrachloride	0/19			0/22			0.005	0	0
Chlorobenzene	0/19			0/22			0.005	0	0
Chloroethane	0/19			0/22			0.005	0	0
Chloroform	0/19			0/22			0.007	0	0
Chloromethane	0/19			0/22			0.005	0	0
cis-1,2-Dichloroethene	12/19	0.0055	0.94	13/22	0.012	0.98	0.005	12	13
cis-1,3-Dichloropropene	0/19			0/22					
Dibromochloromethane	0/19			0/22					
Dichloromethane (Methylene chloride)	0/19			0/22			0.005	0	0
Ethyl benzene	0/19			0/22			0.005	0	0
m&p-Xylene	0/19			0/22					
o-Xylene	0/19			0/22					
Styrene	0/19			0/22			0.005	0	0
Tetrachloroethene	0/19			0/22			0.005	0	0
Toluene	0/19			0/22			0.005	0	0
trans-1,2-Dichloroethene	0/19			0/22			0.005	0	0
trans-1,3-Dichloropropene	0/19			0/22					
Trichloroethene	9/19	0.006	3.3	11/22	0.0067	3.6	0.005	9	11
Vinyl chloride	6/19	0.03	0.15	6/22	0.011	0.14	0.002	6	6

Wet Chemistry									
Alkalinity				1/1	127	127			
Ammonia Nitrogen				0/1					
Biochemical Oxygen Demand				0/1					
Bromide				0/1					
Chemical Oxygen Demand				1/1	33.6	33.6			
Chloride				1/1	11.8	11.8	250		0
Color (True) (C.U.)				1/1	86	86	15		1
Nitrate Nitrogen				0/1					
Sulfate				1/1	2.7	2.7	250		0
Total Dissolved Solids				1/1	180	180	500		0
Total Kjeldahl Nitrogen				1/1	0.85	0.85			
Total Organic Carbon (TOC)				1/1	9.9	9.9			
Total Phenolics				0/1			0.001		0

Note:

Class GA Standard - NYSDEC Class GA Groundwater Standards

Table 3-2

**2013 NYSDEC and NYSDOH MCL Groundwater Exceedances
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)**

Location	Parameter	May 2013 Results	October 2013 Results	Class GA Standard	NYSDOH MCL
CW-3A	Sodium		33.7	20	
CW-3A	cis-1,2-Dichloroethene		0.018	0.005	0.005
CW-3A	Trichloroethene		0.1	0.005	0.005
CW-3B	Sodium		21.6	20	
CW-3B	cis-1,2-Dichloroethene		0.1	0.005	0.005
CW-3B	Trichloroethene		0.38 D	0.005	0.005
CW-4B	Manganese		0.503	0.3	0.3
MW-11S	Manganese		1.15	0.3	0.3
MW-11S	cis-1,2-Dichloroethene	0.33	0.4	0.005	0.005
MW-11S	Trichloroethene	2.9	3.6	0.005	0.005
MW-15S	cis-1,2-Dichloroethene		0.031	0.005	0.005
MW-15S	Trichloroethene		0.016	0.005	0.005
MW-17D	Iron		7.58	0.3	0.3
MW-17D	Manganese		0.967	0.3	0.3
MW-17D	Sodium		27.9	20	
MW-17S	Iron		2.77	0.3	0.3
MW-17S	Manganese		1.17	0.3	0.3
MW-17S	Sodium		64.6	20	
MW-17S	2-Butanone (MEK)		0.29 D	0.005	0.05
MW-17S	Acetone		3.9 D	0.005	0.05
MW-17S	cis-1,2-Dichloroethene		0.064	0.005	0.005
MW-17S	Trichloroethene		0.016	0.005	0.005
MW-18D	Iron		3.99	0.3	0.3
MW-18D	Manganese		0.412	0.3	0.3
MW-18D	Sodium		21.3	20	
MW-18S	Iron		1.14	0.3	0.3
MW-18S	Manganese		0.301	0.3	0.3
MW-18S	Trichloroethene		0.0075	0.005	0.005
MW-3D	cis-1,2-Dichloroethene		0.012	0.005	0.005
MW-3S	Sodium		33.4	20	
MW-4D	Iron		0.41	0.3	0.3
MW-4D	Manganese		0.52	0.3	0.3
MW-4D	cis-1,2-Dichloroethene	0.37	0.3	0.005	0.005
MW-4D	Vinyl chloride	0.14	0.061	0.002	0.002
MW-4D	Vinyl chloride			0.002	0.002
MW-5D	Iron		0.88	0.3	0.3
MW-5D	Manganese		0.645	0.3	0.3
MW-5D	cis-1,2-Dichloroethene	0.98 D	0.23	0.005	0.005
MW-5D	Trichloroethene	0.14	0.017	0.005	0.005
MW-5D	Vinyl chloride	0.13	0.024	0.002	0.002
MW-5D	Vinyl chloride			0.002	0.002

Table 3-2

**2013 NYSDEC and NYSDOH MCL Groundwater Exceedances
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)**

Location	Parameter	May 2013 Results	October 2013 Results	Class GA Standard	NYSDOH MCL
MW-5S	Iron		1.8	0.3	0.3
MW-5S	Manganese		0.312	0.3	0.3
MW-5S	cis-1,2-Dichloroethene	0.23	0.098	0.005	0.005
MW-5S	Trichloroethene	0.044	0.0067	0.005	0.005
MW-5S	Vinyl chloride	0.036	0.011	0.002	0.002
SWS-1	Iron		1.02	0.3	0.3
SWS-1	Color (True) (C.U.)		86	15	15

Notes:

Class GA Standard - NYSDEC Class GA Groundwater Standards

NYSDOH MCL - New York State Department of Health Maximum Containment Level

D - Concentration is the result of dilution

Table 3-3

2013 Groundwater Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	CW-3A 10/22/2013	CW-3B 10/22/2013	CW-4A 10/22/2013	CW-4B 10/22/2013	MW-3D 10/23/2013	MW-3S 10/23/2013	MW-4D 5/2/2013	MW-4D 10/23/2013	MW-5D 5/2/2013	MW-5D 10/24/2013	MW-5S 5/2/2013
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	
Barium	0.082	0.037	0.046	0.038	0.085	0.041		0.02 U		0.043	
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	
Calcium	125	66.7	24.6	35.9	48.2	40.4		18.6		20.3	
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	
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	
Iron	0.1 U	0.1 U	0.11	0.1 U	0.1 U	0.1 U		0.41		0.88	
Lead	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U		0.005 U	
Magnesium	1 U	36.3	15.8	16.2	27.1	32		19.1		11	
Manganese	0.014	0.035	0.294	0.503	0.012	0.01 U		0.52		0.645	
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	
Potassium	16.1	2.3	2 U	2 U	3	2.6		3.2		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	
Sodium	33.7	21.6	15.6	16.4	16.7	33.4		7.3		5.2	
Zinc	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U		0.056		0.02 U	
Volatile Organic Compounds											
1,1,1-Trichloroethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
1,1,2-Trichloroethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
1,1-Dichloroethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
1,2-Dibromoethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
1,2-Dichloroethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
1,2-Dichloropropane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
2-Butanone (MEK)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.05 U	0.02 U	0.02 U
2-Hexanone	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.05 U	0.02 U	0.02 U
4-Methyl-2-pentanone	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.05 U	0.02 U	0.02 U
Acetone	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.05 U	0.02 U	0.02 U
Benzene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Bromodichloromethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Bromoform	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Bromomethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Carbon disulfide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.05 U	0.02 U	0.02 U
Carbon tetrachloride	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Chlorobenzene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Chloroethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Chloroform	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Chloromethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
cis-1,2-Dichloroethene	0.018	0.1	0.005 U	0.005 U	0.012	0.005 U	0.37	0.3	0.98 D	0.23	0.23
cis-1,3-Dichloropropene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Dibromochloromethane	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Dichloromethane (Methylene chloride)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Ethyl benzene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
m&p-Xylene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
o-Xylene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Styrene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Toluene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
trans-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
trans-1,3-Dichloropropene	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.025 U	0.01 U	0.01 U
Trichloroethene	0.1	0.38 D	0.005 U	0.005 U	0.005 U	0.005 U	0.013 U	0.013 U	0.14	0.017	0.044
Vinyl chloride	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.14	0.061	0.13	0.024	0.036

Table 3-3

2013 Groundwater Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	MW-5S 10/24/2013	MW-11S 5/2/2013	MW-11S 10/23/2013	MW-15S 10/23/2013	MW-16S 5/2/2013	MW-16S 10/22/2013	MW-17D 10/23/2013	MW-17S 10/23/2013	MW-18D 10/23/2013	MW-18S 10/23/2013
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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
Barium	0.026		0.027	0.022		0.02 U	0.022	0.046	0.046	0.037
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
Calcium	21.8		54.8	2.8		15.4	55.3	88.9	21.9	28
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
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
Iron	1.8		0.13	0.14		0.27	7.58	2.77	3.99	1.14
Lead	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	9.7		35.6	2.2		10	22.3	64.6	17	13.8
Manganese	0.312		1.15	0.01 U		0.011	0.967	1.17	0.412	0.301
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
Potassium	2 U		2 U	2 U		2 U	2.6	3.8	2.7	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
Sodium	4.9		19.7	1.8		9.1	27.9	64.6	21.3	6.6
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

Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromoethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone (MEK)	0.01 U	0.25 U	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.29 D	0.01 U	0.01 U
2-Hexanone	0.01 U	0.25 U	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone	0.01 U	0.25 U	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	0.01 U	0.25 U	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	3.9 D	0.01 U	0.01 U
Benzene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon disulfide	0.01 U	0.25 U	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloromethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.098	0.33	0.4	0.031	0.005 U	0.005 U	0.005 U	0.064	0.005 U	0.005 U
cis-1,3-Dichloropropene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibromochloromethane	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dichloromethane (Methylene chloride)	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl benzene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
m&p-Xylene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
o-Xylene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	0.005 U	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.0067	2.9	3.6	0.016	0.005 U	0.005 U	0.005 U	0.016	0.005 U	0.0075
Vinyl chloride	0.011	0.13 U	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

Notes:

U - Concentration not detected at specified detection limit

NR - Not Required

D - Concentration is the result of a dilution

Table 4-1

Current and Historic Surface Water Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	SWS-1 9/28/2011	SWS-1 10/22/2013	Class C Standard
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Inorganic Compound

Arsenic	0.01 U	0.01 U	
Barium	0.036	0.027	
Cadmium	0.005 U	0.005 U	
Calcium	33.1	30.3	
Chromium	0.01 U	0.01 U	
Copper	0.02 U	0.02 U	
Iron	0.78	1.02	0.3
Lead	0.005 U	0.005 U	0.008
Magnesium	10.2	10.1	
Manganese	0.06	0.028	
Nickel	0.04 U	0.04 U	0.0082
Potassium	2 U	2.7	
Selenium	0.01 U	0.01 U	
Sodium	25.8	11.7	
Zinc	0.054	0.02 U	

Volatile Organic Compound

1,1,1-Trichloroethane	0.005 U	0.005 U	
1,1,2,2-Tetrachloroethane	0.005 U	0.005 U	
1,1,2-Trichloroethane	0.005 U	0.005 U	
1,1-Dichloroethane	0.005 U	0.005 U	
1,1-Dichloroethene	0.005 U	0.005 U	
1,2-Dibromoethane	0.005 U	0.005 U	
1,2-Dichloroethane	0.005 U	0.005 U	
1,2-Dichloropropane	0.005 U	0.005 U	
2-Butanone (MEK)	0.01 U	0.01 U	
2-Hexanone	0.01 U	0.01 U	
4-Methyl-2-pentanone	0.01 U	0.01 U	
Acetone	0.02 U	0.01 U	
Benzene	0.005 U	0.005 U	
Bromodichloromethane	0.005 U	0.005 U	
Bromoform	0.005 U	0.005 U	
Bromomethane	0.005 U	0.005 U	
Carbon disulfide	0.01 U	0.01 U	
Carbon tetrachloride	0.005 U	0.005 U	
Chlorobenzene	0.005 U	0.005 U	0.005
Chloroethane	0.005 U	0.005 U	
Chloroform	0.005 U	0.005 U	
Chloromethane	0.005 U	0.005 U	
cis-1,2-Dichloroethene	0.005 U	0.005 U	
cis-1,3-Dichloropropene	0.005 U	0.005 U	
Dibromochloromethane	0.005 U	0.005 U	
Dichloromethane (Methylene chloride)	0.005 U	0.005 U	0.2
Ethyl benzene	0.005 U	0.005 U	

Parameter	SWS-1 9/28/2011	SWS-1 10/22/2013	Class C Standard
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VOCs Continued

m&p-Xylene	0.005 U	0.005 U	
o-Xylene	0.005 U	0.005 U	
Styrene	0.005 U	0.005 U	
Tetrachloroethene	0.005 U	0.005 U	
Toluene	0.005 U	0.005 U	6
trans-1,2-Dichloroethene	0.005 U	0.005 U	
trans-1,3-Dichloropropene	0.005 U	0.005 U	
Trichloroethene	0.005 U	0.005 U	0.04
Vinyl chloride	0.005 U	0.005 U	

Wet Chemistry

Alkalinity	152	127	
Ammonia Nitrogen	0.05 U	0.05 U	
Biochemical Oxygen Demand	2 U	2 U	
Bromide	1 U	1 U	
Chemical Oxygen Demand	38	33.6	
Chloride	20.8	11.8	
Color (True) (C.U.)	58	86	
Nitrate Nitrogen	1 U	1 U	
Sulfate	6.7	2.7	
Total Dissolved Solids	218	180	500
Total Kjeldahl Nitrogen	0.62	0.85	
Total Organic Carbon (TOC)	12.9	9.9	
Total Phenolics	0.005 U	0.005 U	

Notes:

Class C Standard - NYSDEC Class C Surface Water Standard
Concentrations in **bold** exceed Class C Standards
U - Concentration not detected at specified detection limit

Table 4-2

**Current and Historic Sediment Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/Kg except where noted)**

Parameter	SWS-1 9/28/2011	SWS-1 10/22/2013
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Parameter	SWS-1 9/28/2011	SWS-1 10/22/2013
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Inorganic Compounds

Arsenic	8	10.6
Barium	114	113
Cadmium	1.6 U	1.3 U
Calcium	3790	12400
Chromium	14.9	13.5
Copper	20.7	22.5
Iron	22500	23700
Lead	16 U	15
Magnesium	3810	3640
Manganese	1120	1020
Nickel	23	21
Potassium	2220	2060
Selenium	3.2 U	2.5 U
Sodium	380 U	300
Zinc	273	5340

Volatile Organic Compounds

1,1,1-Trichloroethane	0.017 U	0.013 U
1,1,2,2-Tetrachloroethane	0.017 U	0.013 U
1,1,2-Trichloroethane	0.017 U	0.013 U
1,1-Dichloroethane	0.017 U	0.013 U
1,1-Dichloroethene	0.017 U	0.013 U
1,2-Dibromoethane	0.017 U	0.013 U
1,2-Dichloroethane	0.017 U	0.013 U
1,2-Dichloropropane	0.017 U	0.013 U
2-Butanone (MEK)	0.017 U	0.013 U
2-Hexanone	0.017 U	0.013 U
4-Methyl-2-pentanone	0.017 U	0.013 U
Acetone	0.017 U	0.013 U
Benzene	0.017 U	0.013 U
Bromodichloromethane	0.017 U	0.013 U
Bromoform	0.017 U	0.013 U
Bromomethane	0.017 U	0.013 U
Carbon disulfide	0.017 U	0.013 U
Carbon tetrachloride	0.017 U	0.013 U
Chlorobenzene	0.017 U	0.013 U
Chloroethane	0.017 U	0.013 U
Chloroform	0.017 U	0.013 U
Chloromethane	0.017 U	0.013 U
cis-1,2-Dichloroethene	0.017 U	0.013 U
cis-1,3-Dichloropropene	0.017 U	0.013 U
Dibromochloromethane	0.017 U	0.013 U
Dichloromethane (Methylene chloride)	0.017 U	0.013 U
Ethyl benzene	0.017 U	0.013 U

VOCs Continued

m&p-Xylene	0.034 U	0.026 U
o-Xylene	0.017 U	0.013 U
Styrene	0.017 U	0.013 U
Tetrachloroethene	0.017 U	0.013 U
Toluene	0.017 U	0.013 U
trans-1,2-Dichloroethene	0.017 U	0.013 U
trans-1,3-Dichloropropene	0.017 U	0.013 U
Trichloroethene	0.017 U	0.013 U
Vinyl chloride	0.017 U	0.013 U

Wet Chemistry

Alkalinity	5220	3390
Ammonia Nitrogen	56	25
Bromide	34 U	26 U
Chemical Oxygen Demand	165000	96900
Chloride	420	224
Nitrate Nitrogen	34 U	26 U
Sulfate	119	79 U
Total Kjeldahl Nitrogen	5050	3430
Total Organic Carbon (TOC)	32300	32300
Total Phenolics	0.33 U	0.26 U
Total Solids	29.5	37.8

Note:

U - Concentration not detected at specified detection limit

Table 5-1

**2012 and 2013 Summary of Leachate Sump
and Manhole Detection Frequencies
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)**

Parameter	2012 Detection Frequency	2012 Minimum	2012 Maximum	2013 Detection Frequency	2013 Minimum	2013 Maximum
Inorganic Compounds						
Arsenic	1/3	0.104	0.104	0/3		
Barium	3/3	0.041	0.245	3/3	0.048	0.087
Cadmium	0/3			0/3		
Calcium	3/3	113	158	3/3	60.8	83.7
Chromium	0/3			0/3		
Copper	0/3			0/3		
Iron	3/3	0.41	88.8	3/3	2.7	14.6
Lead	1/3	0.025	0.025	0/3		
Magnesium	3/3	22.3	39.6	3/3	15	21.7
Manganese	3/3	0.838	6.39	3/3	0.918	2.4
Nickel	0/3			0/3		
Potassium	2/3	6.4	10.2	2/3	2.2	3.1
Selenium	0/3			0/3		
Sodium	3/3	11.9	31.2	3/3	3.9	12.6
Zinc	2/3	0.035	0.053	0/3		
Volatile Organic Compounds						
1,1,1-Trichloroethane	0/3			0/3		
1,1,2,2-Tetrachloroethane	0/3			0/3		
1,1,2-Trichloroethane	0/3			0/3		
1,1-Dichloroethane	0/3			0/3		
1,1-Dichloroethene	0/3			0/3		
1,2-Dibromoethane	0/3			0/3		
1,2-Dichloroethane	0/3			0/3		
1,2-Dichloropropane	0/3			0/3		
2-Butanone (MEK)	0/3			0/3		
2-Hexanone	0/3			0/3		
4-Methyl-2-pentanone	0/3			0/3		
Acetone	0/3			0/3		
Benzene	0/3			0/3		
Bromodichloromethane	0/3			0/3		
Bromoform	0/3			0/3		
Bromomethane	0/3			0/3		
Carbon disulfide	0/3			0/3		
Carbon tetrachloride	0/3			0/3		
Chlorobenzene	0/3			0/3		
Chloroethane	0/3			0/3		
Chloroform	0/3			0/3		
Chloromethane	0/3			0/3		
cis-1,2-Dichloroethene	2/3	0.065	0.077	3/3	0.025	6.6
cis-1,3-Dichloropropene	0/3			0/3		
Dibromochloromethane	0/3			0/3		
Dichloromethane (Methylene chloride)	0/3			0/3		
Ethyl benzene	0/3			1/3	0.018	0.018
m&p-Xylene	0/3			1/3	0.012	0.012
o-Xylene	0/3			0/3		
Styrene	0/3			0/3		
Tetrachloroethene	0/3			0/3		
Toluene	0/3			1/3	0.061	0.061
trans-1,2-Dichloroethene	0/3			1/3	0.092	0.092
trans-1,3-Dichloropropene	0/3			0/3		
Trichloroethene	0/3			2/3	0.014	0.36
Vinyl chloride	2/3	0.0071	0.0082	1/3	0.19	0.19
Wet Chemistry						
Nitrate Nitrogen	0/2			0/2		
Total Dissolved Solids	2/2	429	601	2/2	253	273

Table 5-2

Current and Historic Leachate Sump Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	LS-1 9/27/2011	LS-1 9/6/2012	LS-1 10/23/2013	Class C Standard
Inorganic Compounds				
Arsenic	0.01 U	0.104	0.01 U	
Barium	0.139	0.245	0.077	
Cadmium	0.005 U	0.005 U	0.005 U	
Calcium	119	158	83.7	
Chromium	0.01 U	0.01 U	0.01 U	
Copper	0.02 U	0.02 U	0.02 U	
Iron	1.61	88.8	2.7	0.3
Lead	0.005 U	0.025	0.005 U	0.008
Magnesium	33.3	39.6	21.7	
Manganese	5.17	6.39	1.79	
Nickel	0.04 U	0.04 U	0.04 U	0.0082
Potassium	4.4	6.4	3.1	
Selenium	0.01 U	0.01 U	0.01 U	
Sodium	22.9	31.2	12.6	
Zinc	0.02 U	0.035	0.02 U	
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	0.02 U	0.01 U	0.01 U	
Benzene	0.005 U	0.005 U	0.005 U	
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	
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	0.16	0.077	0.052	
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	0.0092	0.0082	0.005 U	

Note:

U - Concentration not detected at specified limit

Table 5-3

Current and Historic Manhole Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	MH-32 9/28/2011	MH-32 9/5/2012	MH-32 10/22/2013	MH-33 9/28/2011	MH-33 9/5/2012	MH-33 10/22/2013	Class C Standard
Inorganic Compounds							
Arsenic	0.017	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Barium	0.112	0.107	0.087	0.062	0.041	0.048	
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Calcium	91.2	131	60.8	70.5	113	60.8	
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Copper	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	
Iron	9.93	16	14.6	6.3	0.41	3.79	0.3
Lead	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.008
Magnesium	18.9	30.5	15.6	16.1	22.3	15	
Manganese	3.65	2.88	2.4	1.01	0.838	0.918	
Nickel	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.0082
Potassium	2.4	10.2	2.2	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	
Sodium	5.8	23.6	3.9	4.7	11.9	3.9	
Zinc	0.02 U	0.053	0.02 U	0.02 U	0.02 U	0.02 U	
Volatile Organic Compounds							
1,1,1-Trichloroethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
1,1,2,2-Tetrachloroethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
1,1,2-Trichloroethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
1,1-Dichloroethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
1,1-Dichloroethene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
1,2-Dibromoethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
1,2-Dichloroethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
1,2-Dichloropropane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
2-Butanone (MEK)	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
2-Hexanone	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
4-Methyl-2-pentanone	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Acetone	0.5 U	0.01 U	0.01 U	0.02 U	0.01 U	0.01 U	
Benzene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Bromodichloromethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Bromoform	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Bromomethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Carbon disulfide	0.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Carbon tetrachloride	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Chlorobenzene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005
Chloroethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Chloroform	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Chloromethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
cis-1,2-Dichloroethene	3	0.065	6.6 D	0.016	0.005 U	0.025	
cis-1,3-Dichloropropene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Dibromochloromethane	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Dichloromethane (Methylene chloride)	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.2
Ethyl benzene	0.13 U	0.005 U	0.018	0.005 U	0.005 U	0.005 U	
m&p-Xylene	0.13 U	0.005 U	0.012	0.005 U	0.005 U	0.005 U	
o-Xylene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Styrene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Tetrachloroethene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Toluene	0.13 U	0.005 U	0.061	0.005 U	0.005 U	0.005 U	6
trans-1,2-Dichloroethene	0.13 U	0.005 U	0.092	0.005 U	0.005 U	0.005 U	
trans-1,3-Dichloropropene	0.13 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Trichloroethene	0.13 U	0.005 U	0.36 E	0.005 U	0.005 U	0.014	0.04
Vinyl chloride	0.24	0.0071	0.19	0.005 U	0.005 U	0.005 U	
Wet Chemistry							
Nitrate Nitrogen	1 U	1 U	1 U	2.8	1 U	1 U	
Total Dissolved Solids	357	601	273	267	429	253	500

Table 6-1

**Fall 2013 Air Monitoring Results
Wellsville/Andover Landfill
Wellsville, New York**

Monitoring Point	Date	PID (ppm)	O ₂ (%)	LEL (%)
V-1	10/21/2013	0.3	20.9	0
V-2	10/21/2013	0.6	20.5	0
V-3	10/21/2013	1.3	20.9	12
V-4	10/21/2013	5.8	19.6	OL
V-5	10/21/2013	1.5	20.9	5
V-6	10/21/2013	6.9	20.9	0
V-7	10/21/2013	0.3	21.4	0
V-8	10/21/2013	10.3	20.9	42
V-9	10/21/2013	17.6	20.3	50.3
V-10	10/21/2013	0.4	20.9	0
V-11	10/21/2013	6.0	20.9	30
V-12	10/21/2013	0.4	20.9	0
V-13	10/21/2013	1.4	20.9	28
V-14	10/21/2013	1.1	20.0	60
V-15	10/21/2013	1.1	20.9	45
V-16	10/21/2013	1.2	20.9	15
V-17	10/21/2013	2.2	20.9	13
V-18	10/21/2013	1.3	20.8	46
V-19	10/21/2013	0.4	20.9	0
V-20	10/21/2013	0.4	20.9	0
V-21	10/21/2013	0.5	20.9	0
L-16 ¹	10/21/2013	1.7	19.5	5
L-17	10/21/2013	0.2	10.4	OL
L-19	10/21/2013	6.9	7.2	OL
L-21	10/21/2013	0.4	7.7	OL
L-23	10/21/2013	0.9	7.5	OL
L-25	10/21/2013	2.9	8.0	OL
L-27	10/21/2013	1.6	9.4	OL
L-29	10/21/2013	31.0	8.9	OL
L-31	10/21/2013	126.6	8.0	OL
MH-6	10/21/2013	5.1	20.9	35
MH-7	10/21/2013	2.1	12.2	OL
MH-8	10/21/2013	5.7	14.5	OL
MH-9	10/21/2013	2.6	21.4	0
MH-10	10/21/2013	2.8	21.4	0
MH-11	10/21/2013	1.9	21.7	0
MH-12	10/21/2013	2.4	20.9	0
MH-13	10/21/2013	10.0	0.0	OL
MH-32	10/21/2013	0.8	20.9	0
MH-33	10/21/2013	0.7	20.9	0
Upwind	10/21/2013	0.0	21.6	0
Downwind-1	10/21/2013	0.0	21.9	0
Downwind-2	10/21/2013	0.0	21.8	0
Downwind-3	10/21/2013	0.0	21.8	0

Notes:

Meters: Rae Systems MiniRAE 3000, QRAEII

Background Readings:

O₂ = 21.9 LEL = 0 PID = 0.5

Weather: Partly Cloudy 55° F, 10-20 mph winds

Monitored By: T. Reed

Table 7-1

**Summary of 2013 Residential Water Supply Sampling
Wellsville/Andover Landfill
Wellsville, New York**

Location	Name	Water Source	Sampled May 2013	Sampled October 2013
WAL-2	Mr. Phil Rosini & Ms. Rosalie Rosini 210 East Linden Ave E. Rochester, NY 14445	Well ^{1,2} 105 ft.	NR	Note 3
WAL -5	Mr. Eugene Ormsby 4011 Duffy Hollow Road Wellsville, NY 14895	Spring ^{1,2}	NR	Note 4
WAL-19	Mr. Daniel & Mrs. Barbara LaDue 3914 Snyder Road Wellsville, NY 14895	Spring ¹	5/7/2013	10/25/2013

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 Contact was made with owner on October 18, 2013. Owner indicated they would contact On-Site to schedule sampling. Owner did not contact On-Site.

⁴ Owner indicated that water was shut off for winter and requested sampling in Spring 2015.

NR - Not Required

Table 7-2

2012 and 2013 Summary of Residential Water Supply Detection Frequencies
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	2012 Detection Frequency	2012 Minimum	2012 Maximum	2013 Detection Frequency	2013 Minimum	2013 Maximum	NYSDOH MCL	2012 MCL Exceedances	2013 MCL Exceedances	Class GA Standard	2012 Class GA Exceedances	2013 Class GA Exceedances
Semi-Volatile Organic Compounds												
1,2,3-Trichlorobenzene	0/6			0/6			0.005	0	0	0.005	0	0
1,2,4-Trichlorobenzene	0/6			0/6			0.005	0	0	0.005	0	0
Hexachlorobutadiene	0/6			0/6						0.0005	0	0
Naphthalene	0/6			0/6								
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	0/6			0/6			0.005	0	0	0.005	0	0
1,1,1-Trichloroethane	0/6			0/6			0.005	0	0	0.005	0	0
1,1,2,2-Tetrachloroethane	0/6			0/6			0.005	0	0	0.005	0	0
1,1,2-Trichloroethane	0/6			0/6			0.005	0	0	0.001	0	0
1,1-Dichloroethane	0/6			0/6			0.005	0	0	0.005	0	0
1,1-Dichloroethene	0/6			0/6			0.005	0	0	0.005	0	0
1,1-Dichloropropene	0/6			0/6								
1,2,3-Trichloropropane	0/6			0/6						0.00004	0	0
1,2,4-Trimethylbenzene	0/6			0/6			0.005	0	0	0.005	0	0
1,2-Dibromo-3-chloropropane	0/6			0/6						0.00004	0	0
1,2-Dibromoethane	0/6			0/6								
1,2-Dichlorobenzene	0/6			0/6			0.005	0	0	0.003	0	0
1,2-Dichloroethane	0/6			0/6						0.0006	0	0
1,2-Dichloropropane	0/6			0/6						0.001	0	0
1,3,5-Trimethylbenzene	0/6			0/6			0.005	0	0	0.005	0	0
1,3-Dichlorobenzene	0/6			0/6			0.005	0	0	0.003	0	0
1,3-Dichloropropane	0/6			0/6			0.005	0	0	0.005	0	0
1,4-Dichlorobenzene	0/6			0/6			0.005	0	0	0.003	0	0
2,2-Dichloropropane	0/6			0/6			0.005	0	0	0.005	0	0
2-Chlorotoluene	0/6			0/6			0.005	0	0	0.005	0	0
4-Chlorotoluene	0/6			0/6			0.005	0	0	0.005	0	0
Benzene	0/6			0/6			0.005	0	0	0.001	0	0
Bromobenzene	0/6			0/6			0.005	0	0	0.005	0	0
Bromochloromethane	0/6			0/6			0.005	0	0	0.005	0	0
Bromodichloromethane	0/6			0/6								
Bromoform	0/6			0/6								
Bromomethane	0/6			0/6			0.005	0	0	0.005	0	0
Carbon tetrachloride	0/6			0/6			0.005	0	0	0.005	0	0
Chlorobenzene	0/6			0/6			0.005	0	0	0.005	0	0
Chloroethane	0/6			0/6			0.005	0	0	0.005	0	0
Chloroform	0/6			0/6			0.005	0	0	0.007	0	0
Chloromethane	0/6			0/6						0.005	0	0
cis-1,2-Dichloroethene	2/7	0.0026	0.0028	2/6	0.0025	0.0025				0.005	0	0

Table 7-2

2012 and 2013 Summary of Residential Water Supply Detection Frequencies
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	2012 Detection Frequency	2012 Minimum	2012 Maximum	2013 Detection Frequency	2013 Minimum	2013 Maximum	NYSDOH MCL	2012 MCL Exceedances	2013 MCL Exceedances	Class GA Standard	2012 Class GA Exceedances	2013 Class GA Exceedances
VOCs Continued												
cis-1,3-Dichloropropene	0/6			0/6								
Dibromochloromethane	0/6			0/6								
Dibromomethane	0/6			0/6			0.005	0	0	0.005	0	0
Dichlorodifluoromethane	0/6			0/6			0.005	0	0	0.005	0	0
Dichloromethane (Methylene chloride)	0/6			0/6			0.005	0	0	0.005	0	0
Ethyl benzene	0/6			0/6			0.005	0	0	0.005	0	0
Isopropylbenzene	0/6			0/6			0.005	0	0	0.005	0	0
m&p-Xylene	0/6			0/6								
Methyl tert-butyl ether (MTBE)	0/6			0/6								
n-Butylbenzene	0/6			0/6			0.005	0	0	0.005	0	0
n-Propylbenzene	0/6			0/6			0.005	0	0	0.005	0	0
o-Xylene	0/6			0/6								
p-Isopropyltoluene	0/6			0/6						0.005	0	0
sec-Butylbenzene	0/6			0/6						0.005	0	0
Styrene	0/6			0/6			0.005	0	0	0.005	0	0
Tert-Butyl Alcohol	0/6			0/6								
tert-Butylbenzene	0/6			0/6						0.005	0	0
Tetrachloroethene	0/6			0/6			0.005	0	0	0.005	0	0
Toluene	0/6			0/6			0.005	0	0	0.005	0	0
trans-1,2-Dichloroethene	0/6			0/6						0.005	0	0
trans-1,3-Dichloropropene	0/6			0/6								
Trichloroethene	2/7	0.0025	0.0028	2/6	0.0019	0.0024	0.005	0	0	0.005	0	0
Trichlorofluoromethane	0/6			0/6			0.005	0	0	0.005	0	0
Vinyl chloride	0/6			0/6			0.005	0	0	0.002	0	0

NYSDOH MCL - NYSDOH Maximum Containment Level

Class GA Standard - NYSDEC Class GA Groundwater Standard

Table 7-3

2013 Residential Water Supply Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	WAL19PRE-0513 5/7/2013	WAL19INTER-0513 5/7/2013	WAL19POST-0513 5/7/2013	WAL19PRE-1013 10/25/2013	WAL19INTER-1013 10/25/2013	WAL19POST-1013 10/25/2013
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Semi-Volatile Organic Compounds

1,2,3-Trichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2,4-Trichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Hexachlorobutadiene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Naphthalene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U

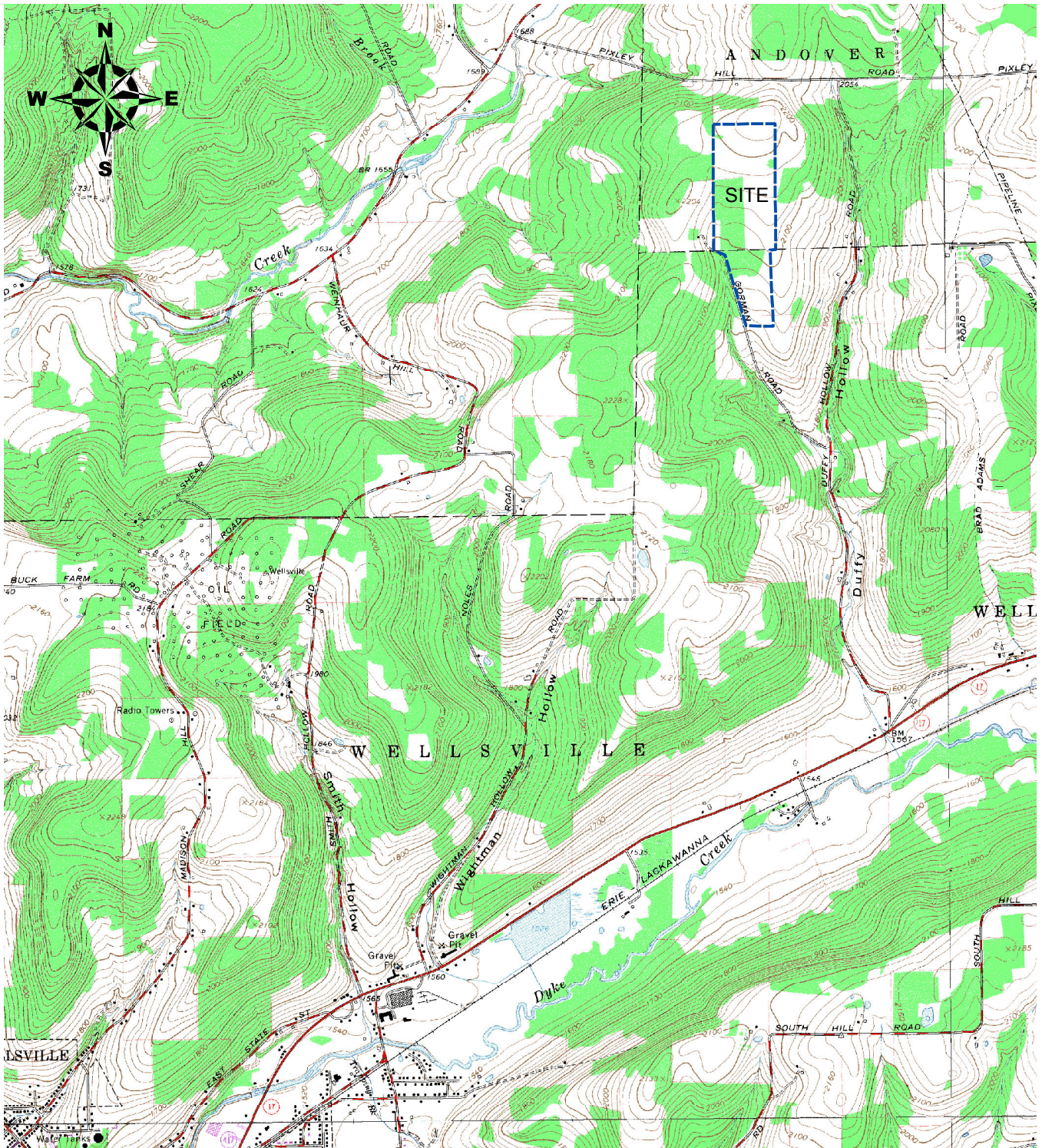
Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1,1-Trichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1,2,2-Tetrachloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1,2-Trichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1-Dichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1-Dichloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1-Dichloropropene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2,3-Trichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2,4-Trimethylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dibromo-3-chloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dibromoethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,3,5-Trimethylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,3-Dichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,3-Dichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,4-Dichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
2,2-Dichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
2-Chlorotoluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
4-Chlorotoluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Benzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromochloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromodichloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromoform	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromomethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Carbon tetrachloride	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chloroform	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
cis-1,2-Dichloroethene	0.0025	0.0005 U	0.0005 U	0.0025	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Dibromochloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Dibromomethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Dichlorodifluoromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Dichloromethane (Methylene chloride)	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Ethyl benzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Isopropylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
m&p-Xylene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert-butyl ether (MTBE)	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
n-Butylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
n-Propylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
o-Xylene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
p-Isopropyltoluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
sec-Butylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Styrene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Tert-Butyl Alcohol	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
tert-Butylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Tetrachloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Toluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
trans-1,2-Dichloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.0019	0.0005 U	0.0005 U	0.0024	0.0005 U	0.0005 U
Trichlorofluoromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Vinyl chloride	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U

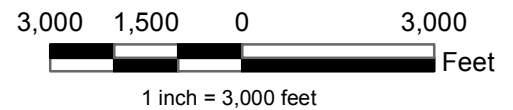
Notes:

U - Concentrations not detected at specified limit

SITE LOCATION



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



Legend

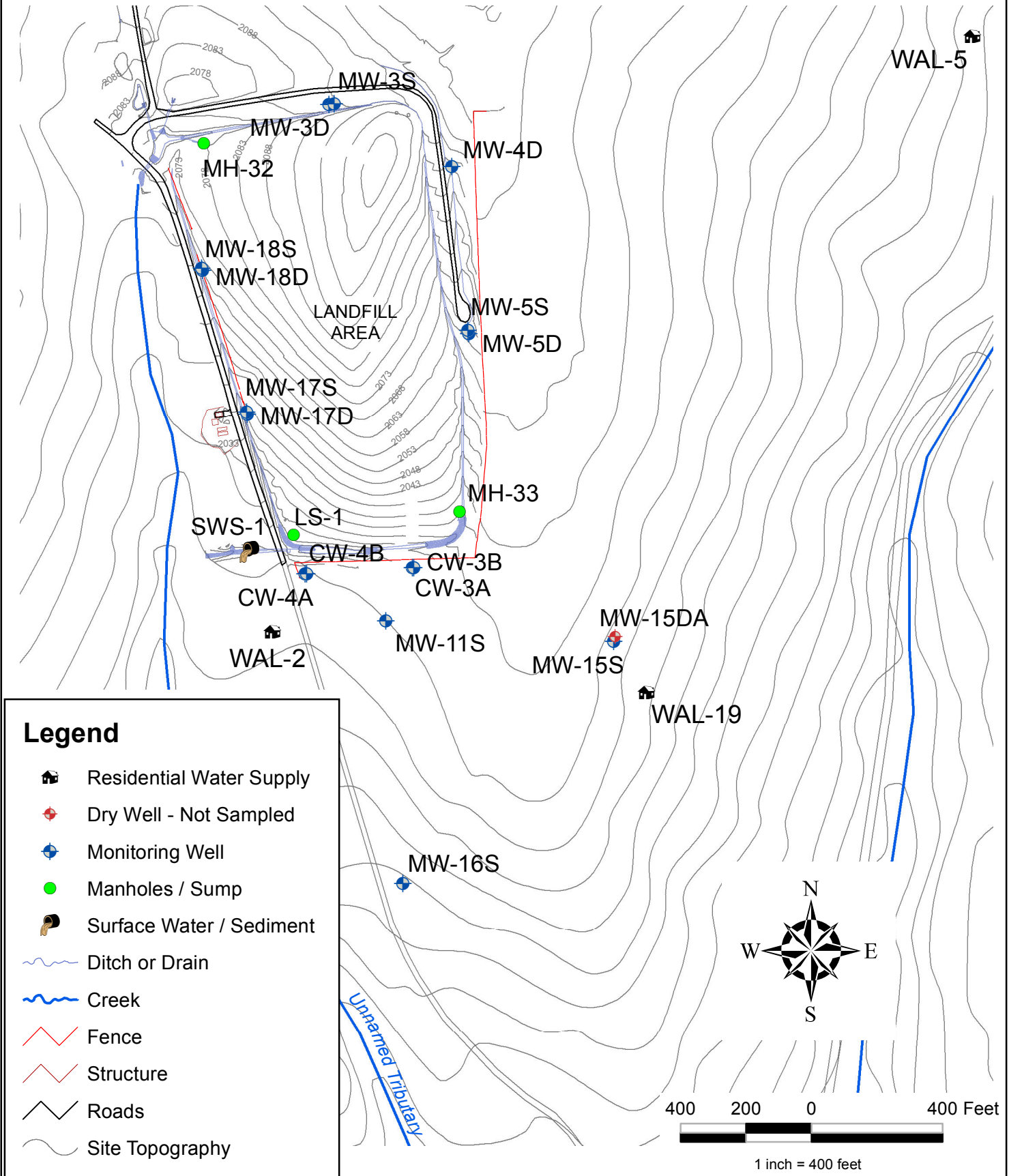
--- Approximate Site Boundary



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

FIGURE NO.	1
PROJECT	WAL
DOCUMENT	2013 Annual Report
FILE NO.	Fig 1.mxd

2013 SAMPLING LOCATIONS



Legend

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

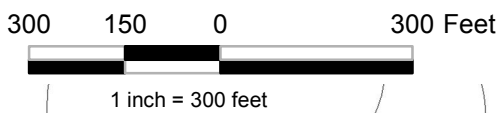
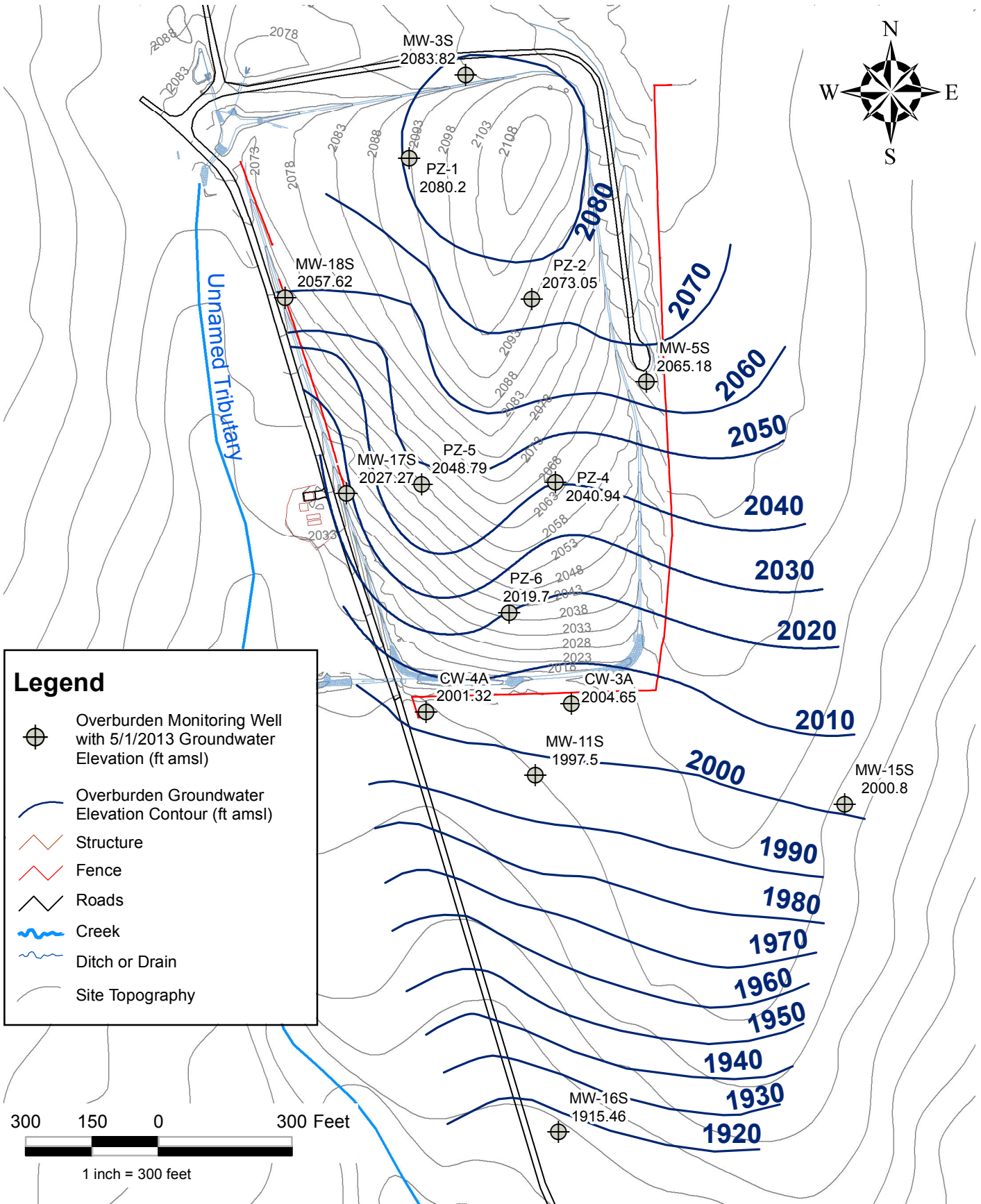
FIGURE NO.	2
PROJECT	WAL
DOCUMENT	2013 Annual Report
FILE NO.	Fig 2.mxd

ON-SITE TECHNICAL SERVICES, INC.

72 Railroad Avenue Wellsville, NY 14895



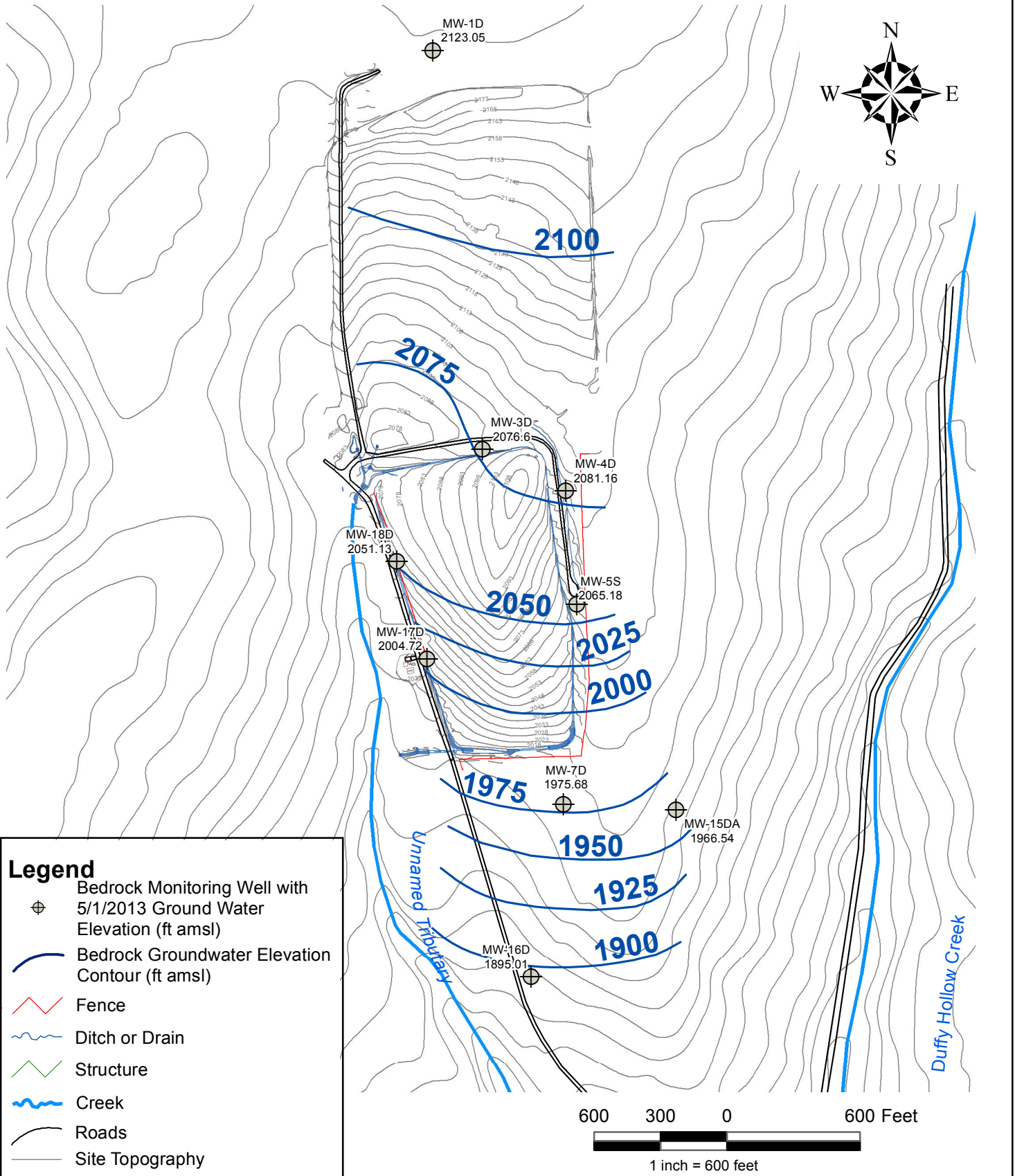
MAY 1, 2013 OVERBURDEN MONITORING WELL POTENTIOMETRIC MAP



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

FIGURE NO.	3
PROJECT	WAL
DOCUMENT	2013 Annual Report
FILE NO	Fig 3 0513 OB.mxd

MAY 1, 2013 BEDROCK MONITORING WELL POTENTIOMETRIC MAP

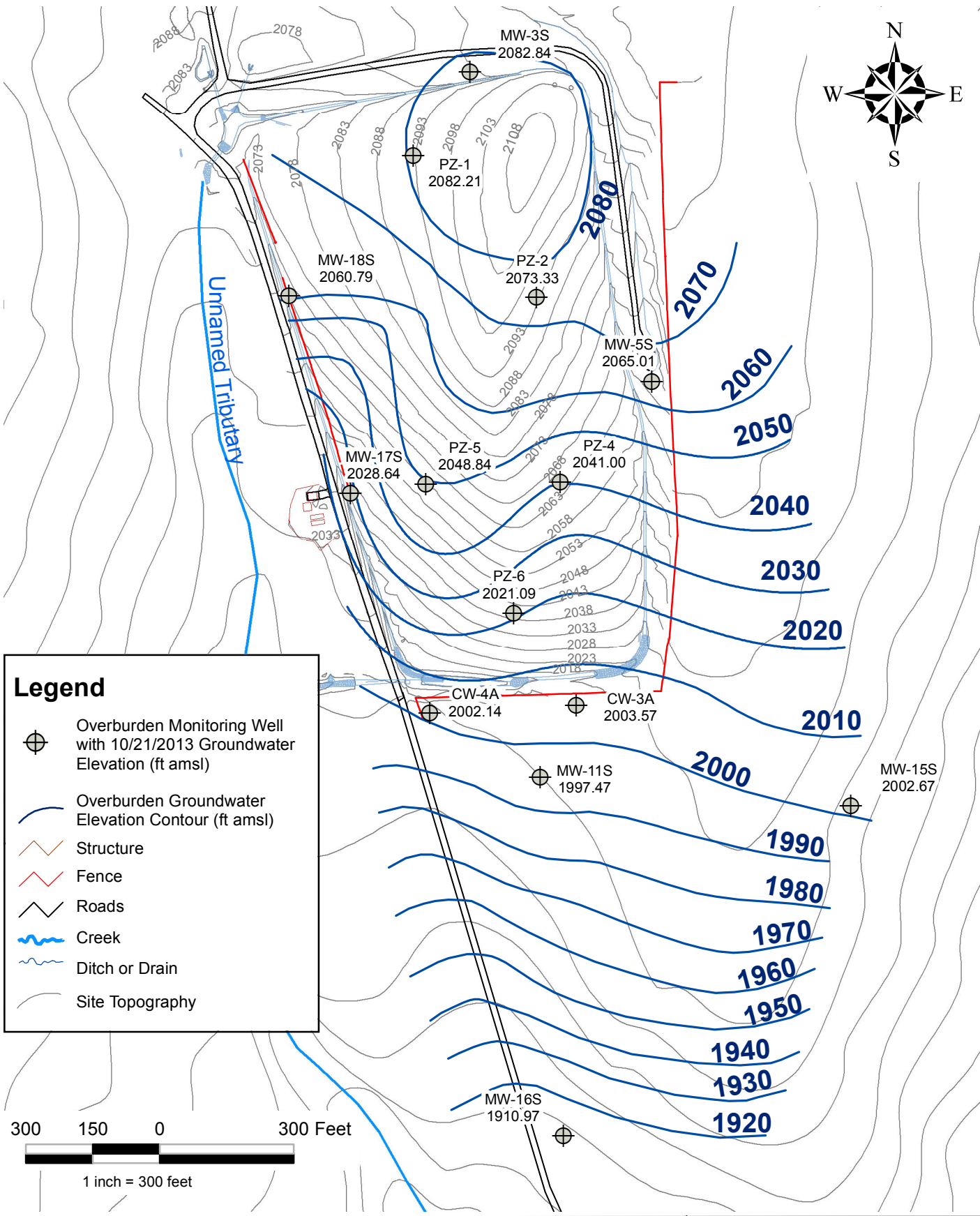
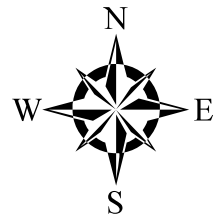


ON-SITE TECHNICAL SERVICES, INC.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	4
PROJECT	WAL
DOCUMENT	2013 Annual Report
FILE NO	Fig 4 0513 BR.mxd

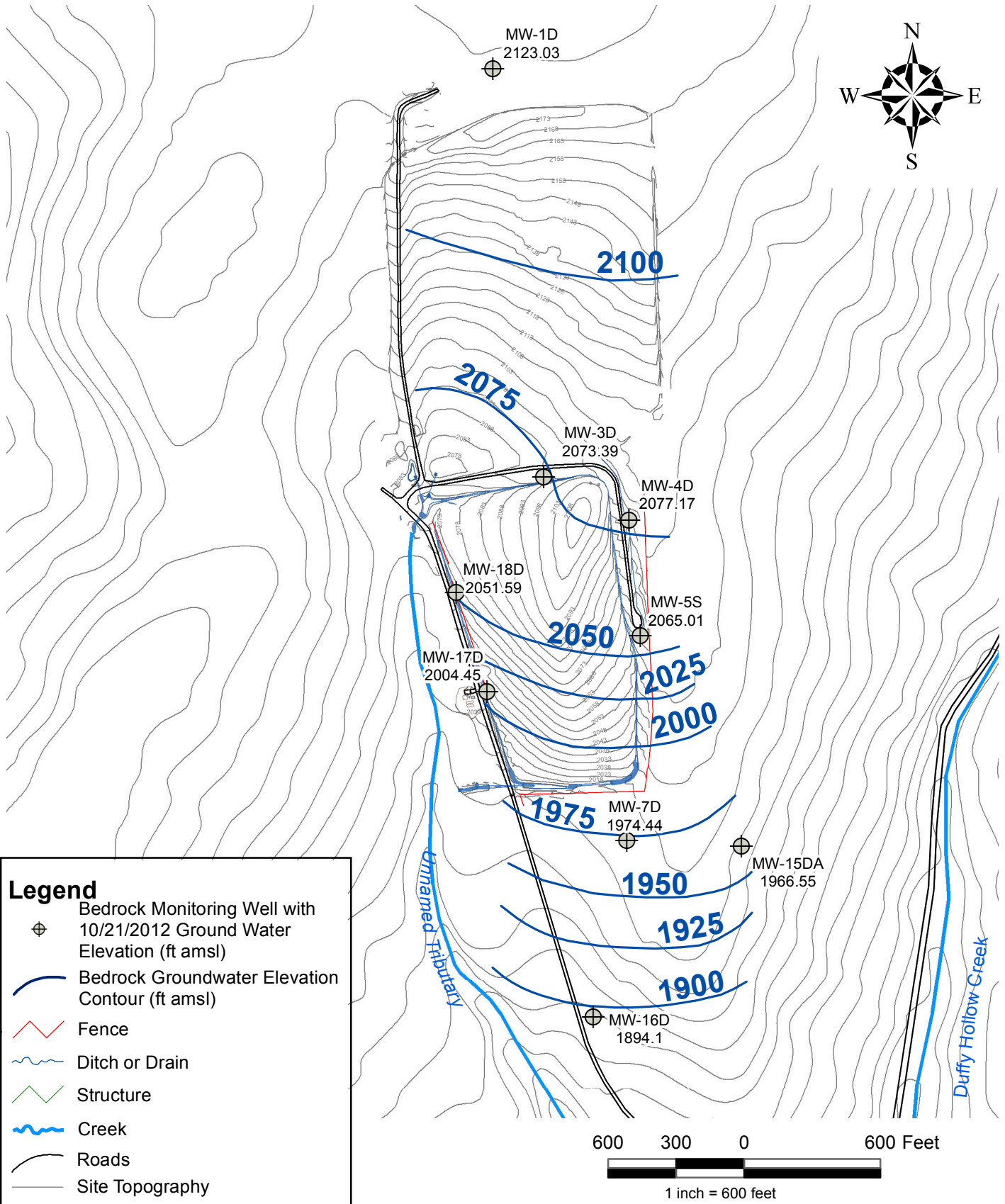
October 21, 2013 OVERBURDEN MONITORING WELL POTENTIOMETRIC MAP



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

FIGURE NO.	5
PROJECT	WAL
DOCUMENT	2013 Annual Report
FILE NO	Fig 5 1013OB.mxd

October 21, 2013 BEDROCK MONITORING WELL POTENTIOMETRIC MAP

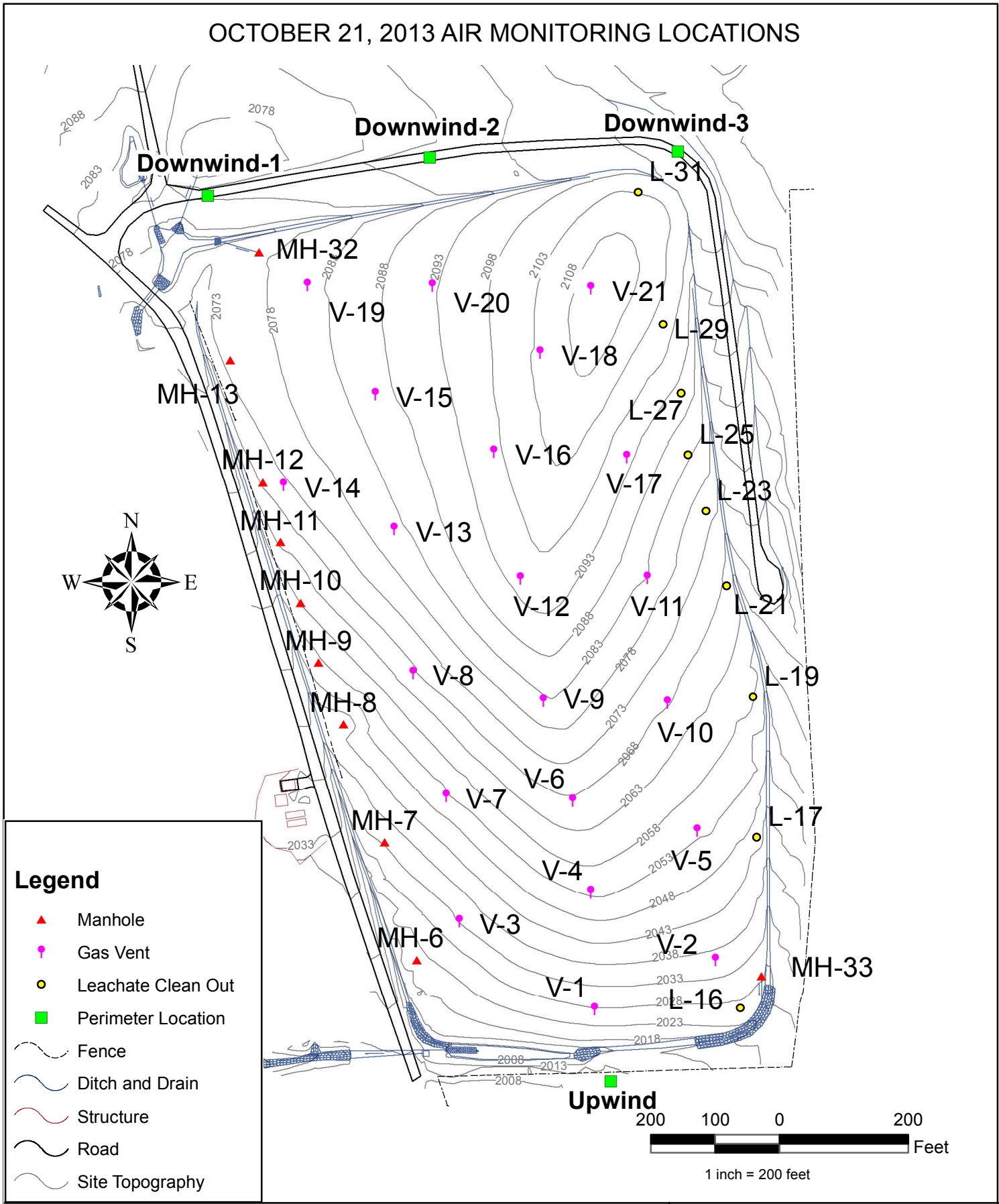


ON-SITE TECHNICAL SERVICES, INC.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	6
PROJECT	WAL
DOCUMENT	2013 Annual Report
FILE NO	Fig 6 1021 BR.mxd

OCTOBER 21, 2013 AIR MONITORING LOCATIONS



Legend

- ▲ Manhole
- ▼ Gas Vent
- Leachate Clean Out
- Perimeter Location
- Fence
- Ditch and Drain
- Structure
- Road
- Site Topography



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

FIGURE NO.	7
PROJECT	WAL
DOCUMENT	2013 ANNUAL RPT
FILE NO.	FIG 7.MXD

**New York State Department of Environmental Conservation
Division of Environmental Remediation, 11th Floor**

625 Broadway, Albany, New York 12233

Phone: (518) 402-9553 **Fax:** (518) 402-9577

Website: www.dec.ny.gov



Joe Martens
Commissioner

2/18/2014

William D. Whitfield
Director of Public Works
Village of Wellsville
200 Bolivar Road
Wellsville, NY 14895

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Wellsville-Andover Landfill

Site No.: 902004

Site Address: Snyder Hill Road
Wellsville, NY 14895

Dear William D. Whitfield:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **March 31, 2014**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls (“IC/EC Plan”); a plan for monitoring the performance and effectiveness of the selected remedy (“Monitoring Plan”); and/or a plan for the operation and maintenance of the selected remedy (“O&M Plan”). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
<http://www.dec.ny.gov/regulations/2586.html>

The signed certification forms should be sent to David Szymanski, Project Manager, at the following address:

New York State Department of Environmental Conservation
270 Michigan Ave
Buffalo, NY 14203-2915

Phone number: 716-851-7220. E-mail: dsszyman@gw.dec.state.ny.us

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

David Szymanski, Project Manager
Martin Doster, Hazardous Waste Remediation Engineer, Region 9
Jon Brandes, On-Site Technical Services, Inc.

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



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



	Site Details	Box 1		
Site No.	902004			
Site Name Wellsville-Andover Landfill				
Site Address: Snyder Hill Road Zip Code: 14895				
City/Town: Wellsville				
County: Allegany				
Site Acreage: 19.0				
Reporting Period: February 15, 2013 to February 15, 2014				
		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/ECs 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>
201-1-15.2	VILLAGE OF WELLSVILLE	Ground Water Use Restriction Monitoring Plan O&M Plan

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
201-1-15.2	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 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. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or 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

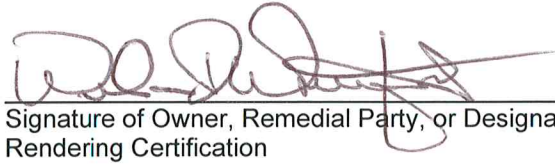
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 William Whitfield at 200 Bolivar Road Wellsville, NY,
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

3/21/14
Date

IC/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 at 72 Railroad Avenue Wellsville, NY,
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)

3/21/14
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.

- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.



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
-----------	-------------------	----------------------	-------------------	-------------------	-------------------	--------------------------------

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

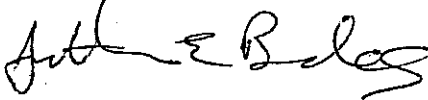
Landfill gas has been adequately characterized and has not been detected at the landfill perimeter; therefore landfill gas monitoring will be discontinued.

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,



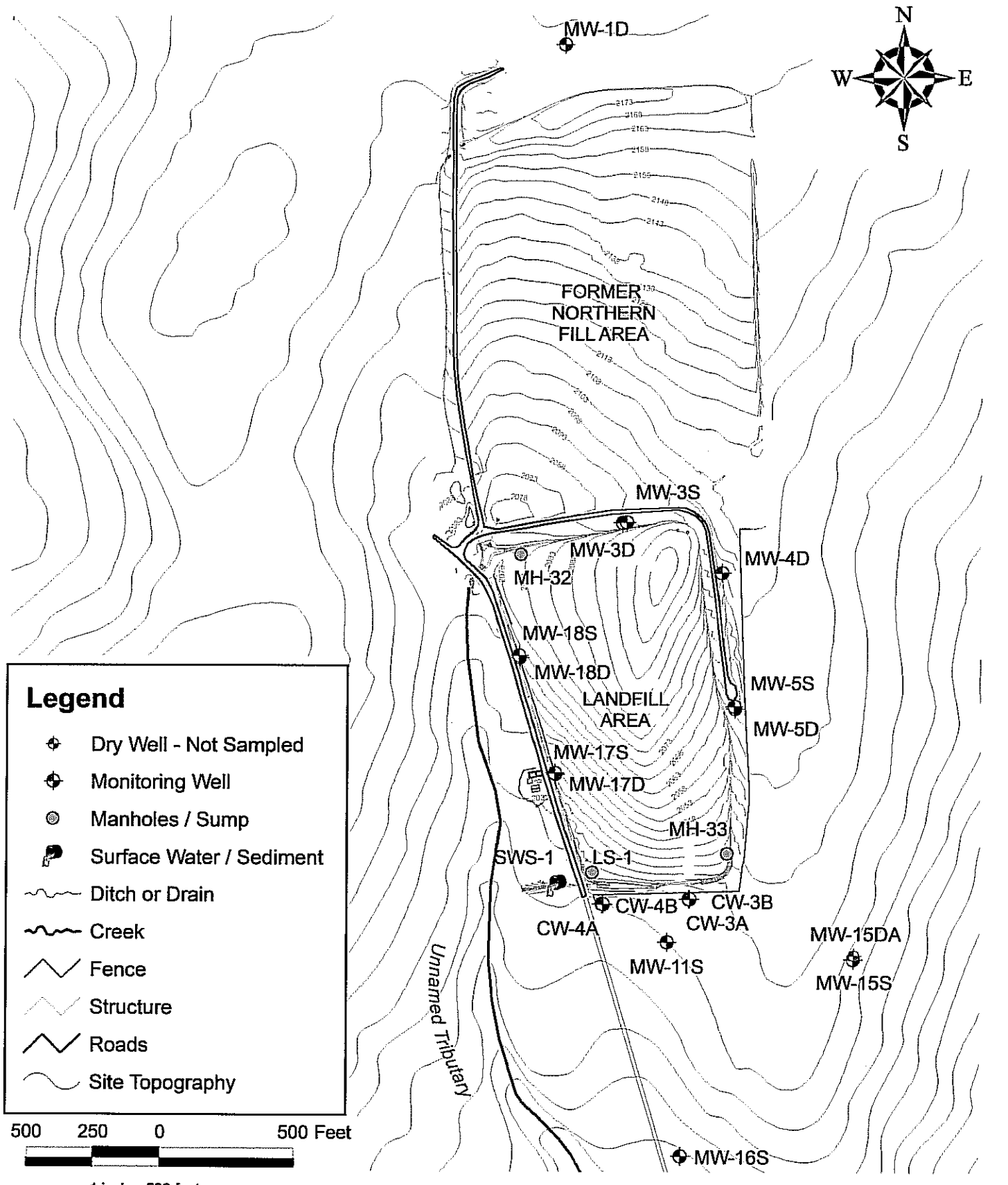
Jonathan E. Brandes, P.G.

Senior Geologist











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

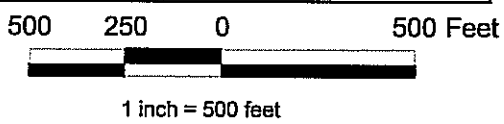
Attachments

SAMPLING LOCATIONS



Legend

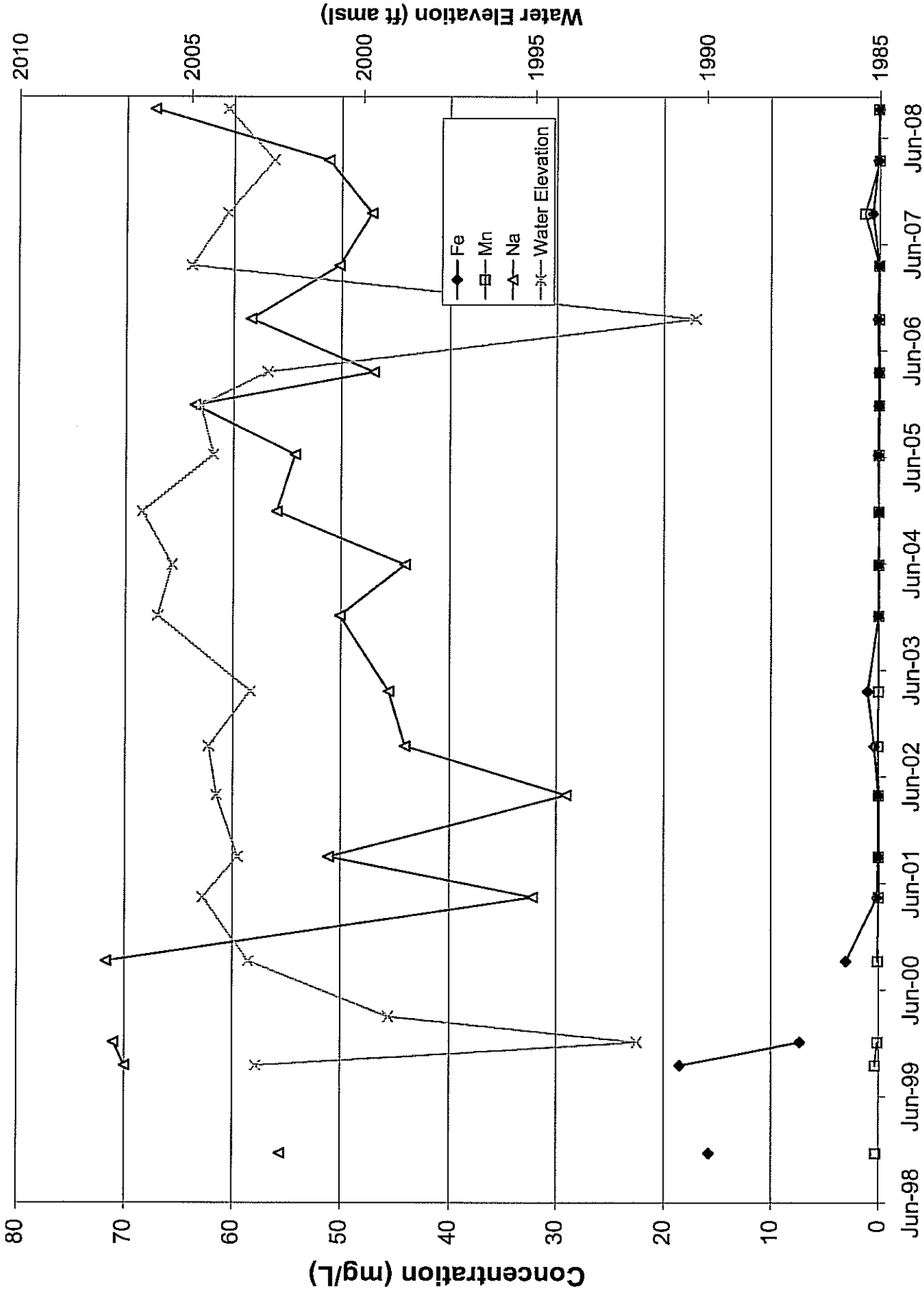
-  Dry Well - Not Sampled
-  Monitoring Well
-  Manholes / Sump
-  Surface Water / Sediment
-  Ditch or Drain
-  Creek
-  Fence
-  Structure
-  Roads
-  Site Topography



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

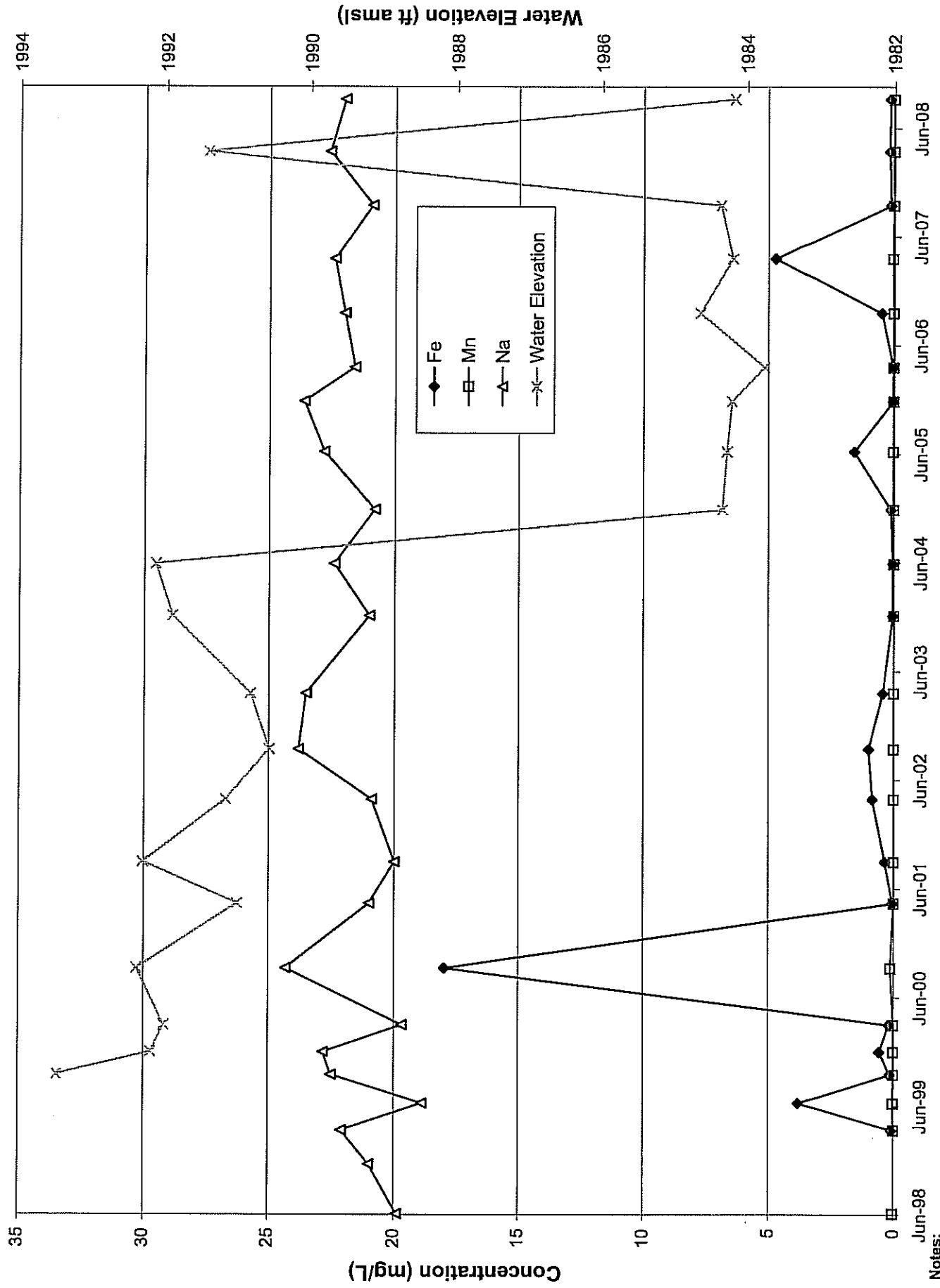


Notes:

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

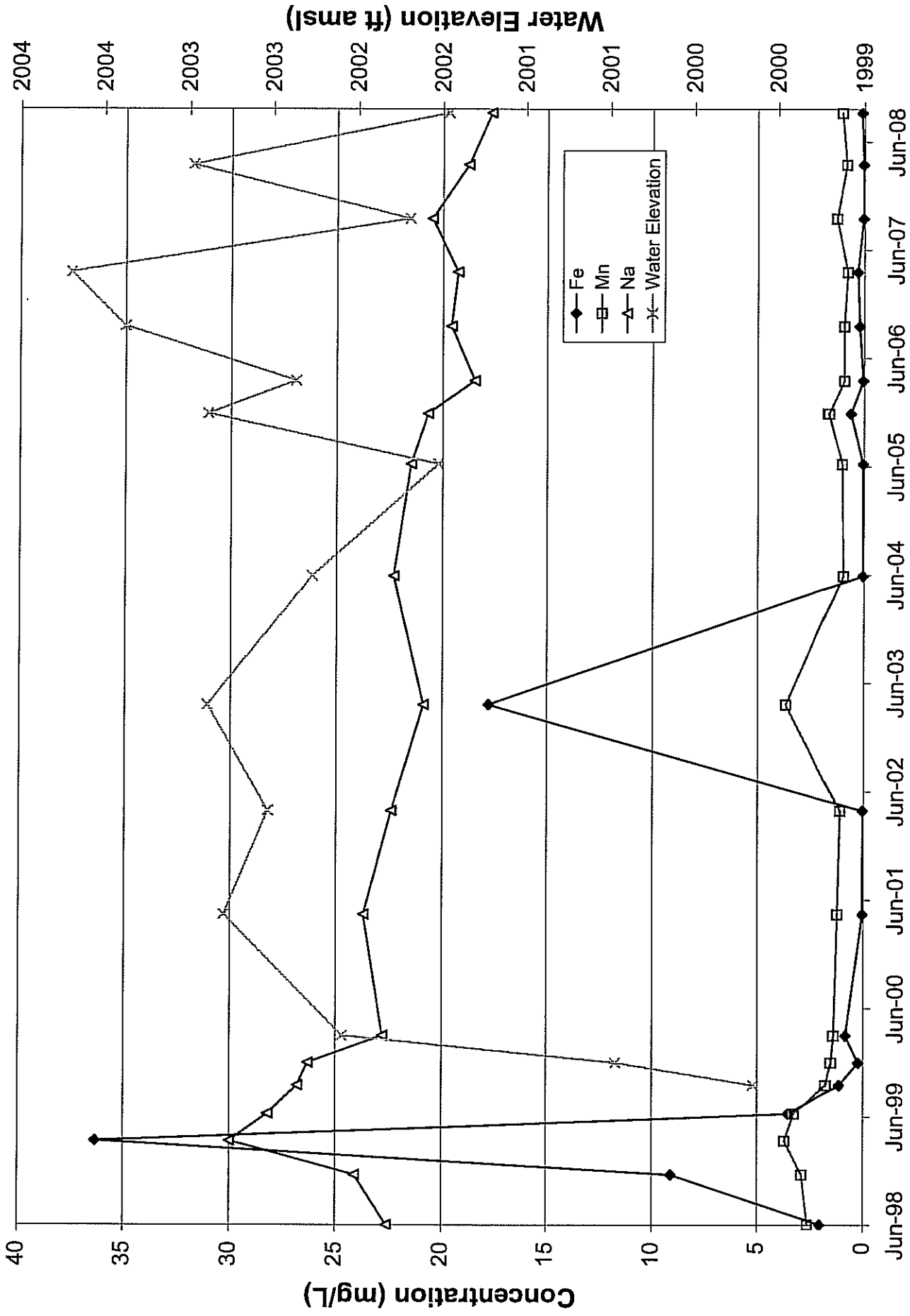
Date

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.

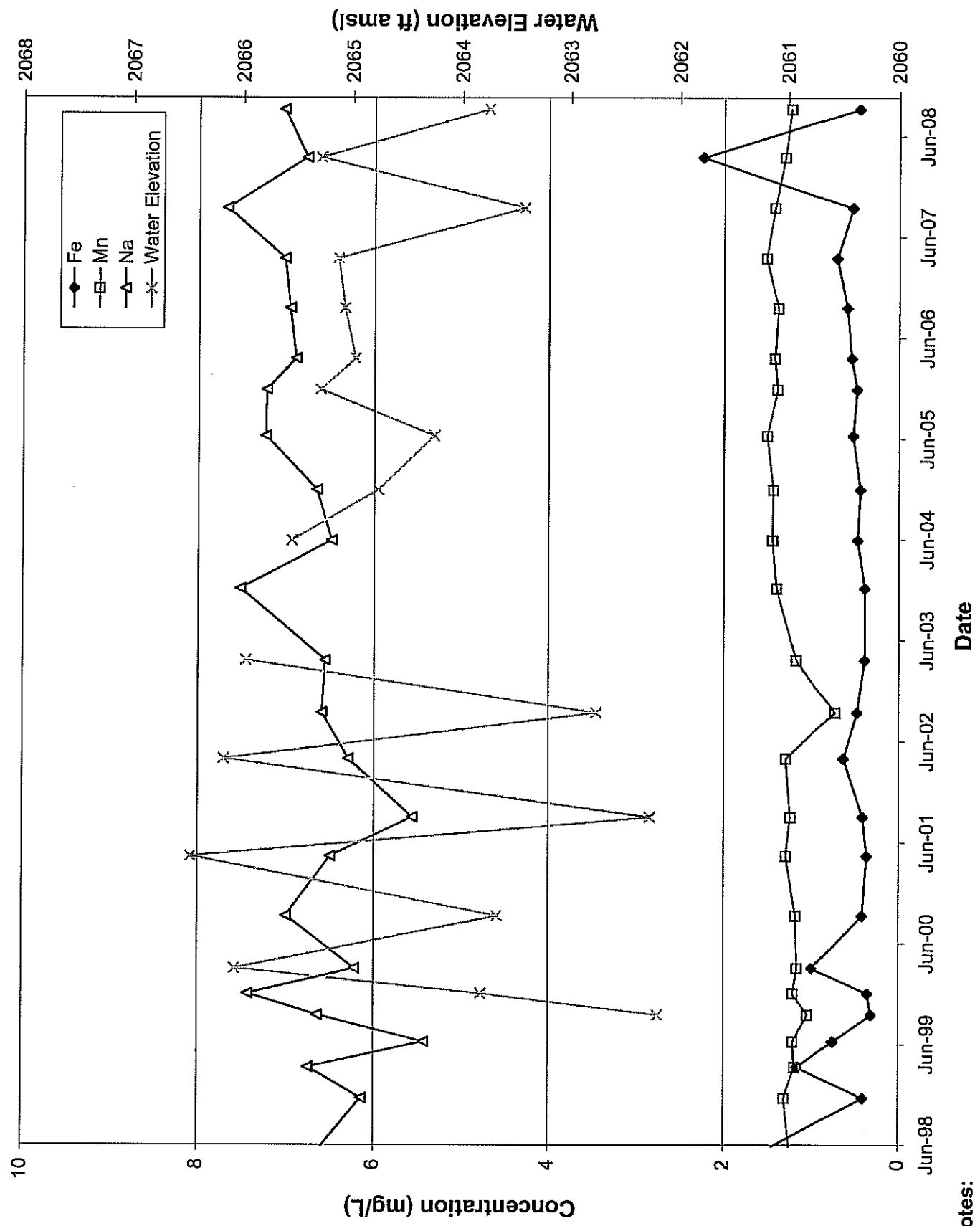
CW-4B Metals



Notes:

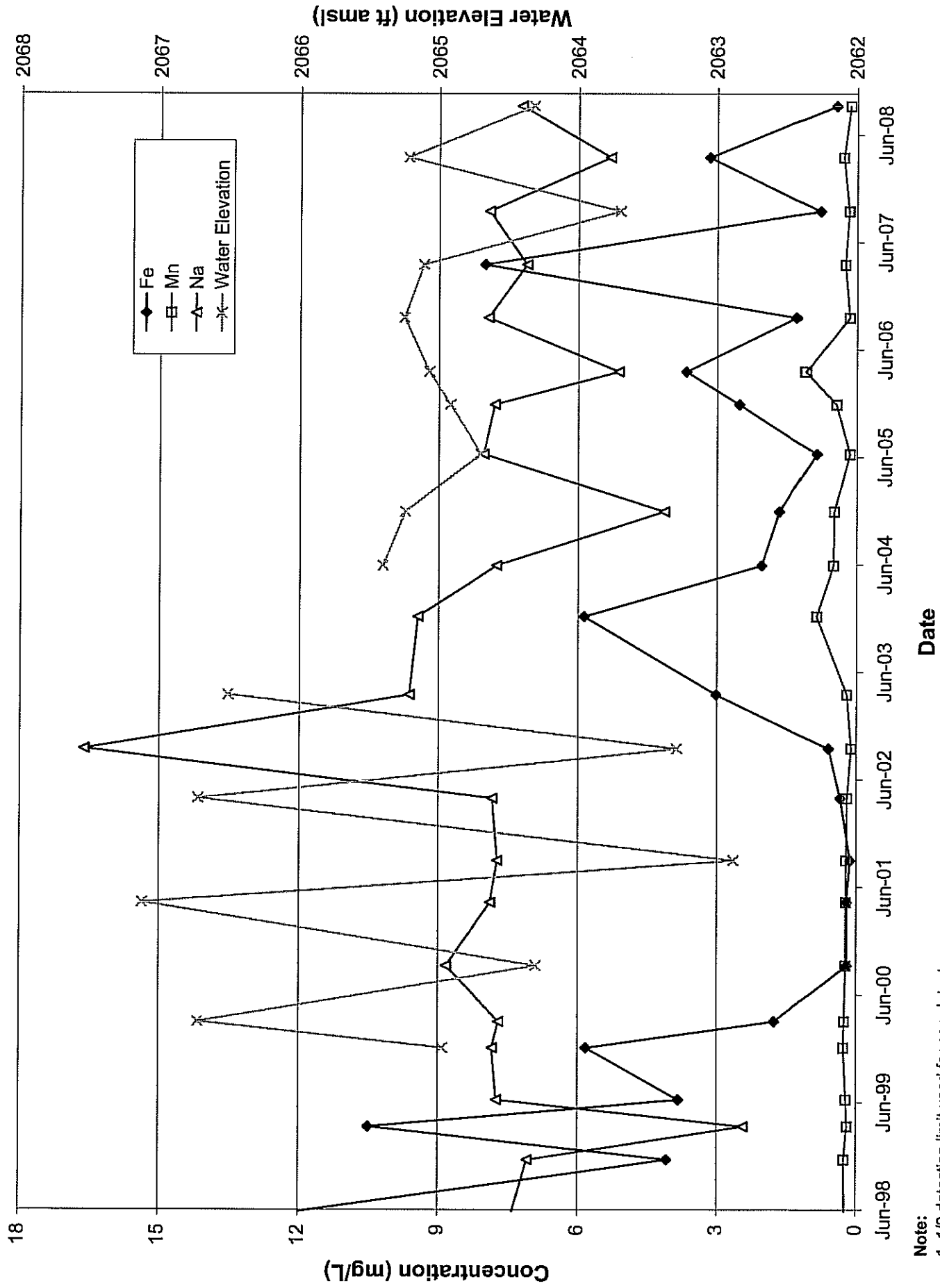
- 1/2 detection limit used for non-detects
- Iron is non-detect on 4/25/2001, 4/9/2002, 6/8/2004, 6/20/2005, 3/28/2006, 9/25/2007 and 3/25/2008

MW-5D Metals



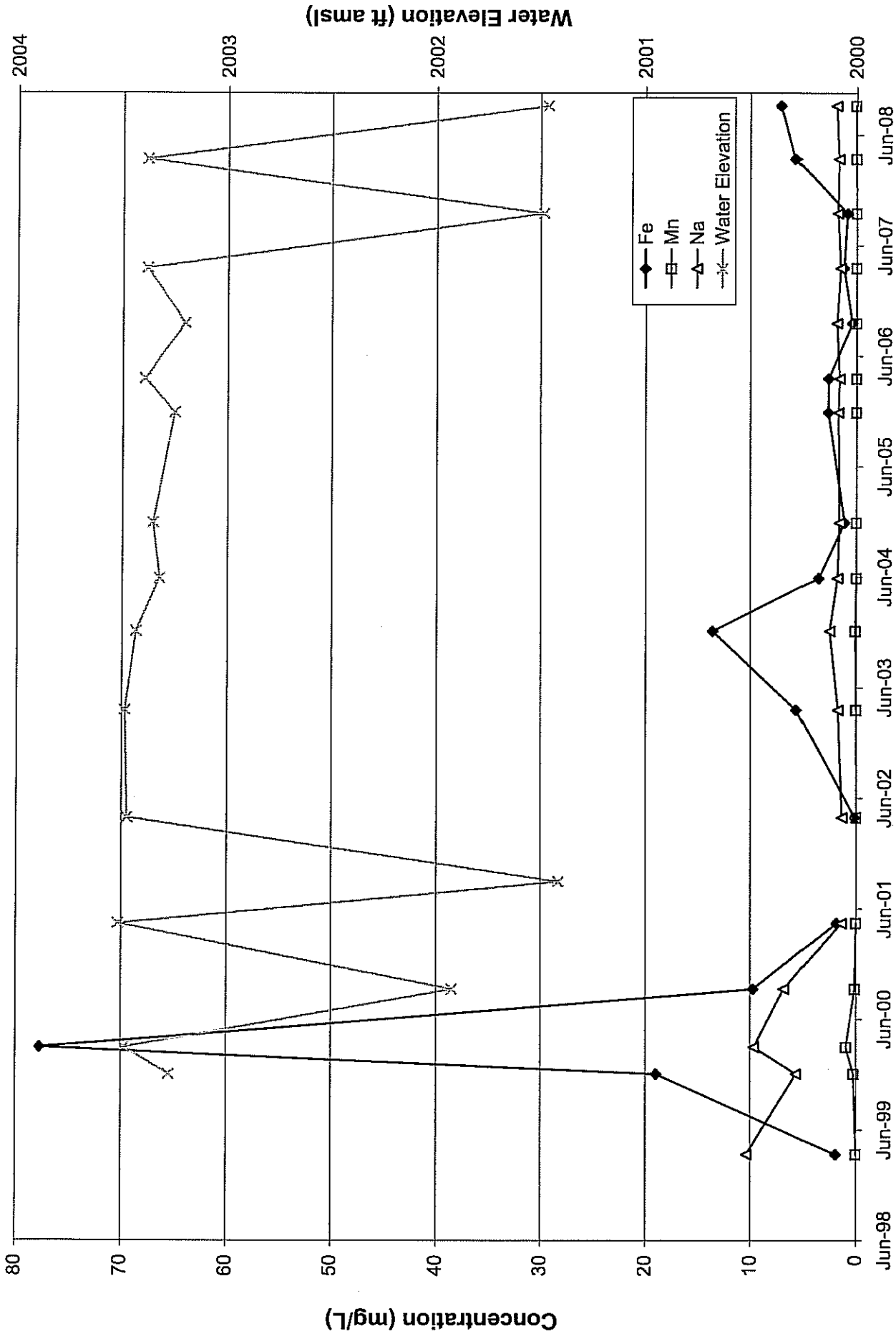
Notes:
 1. 1/2 Detection limit used for non-detects
 2. No water elevation available December 2003.

MW-5S Metals



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

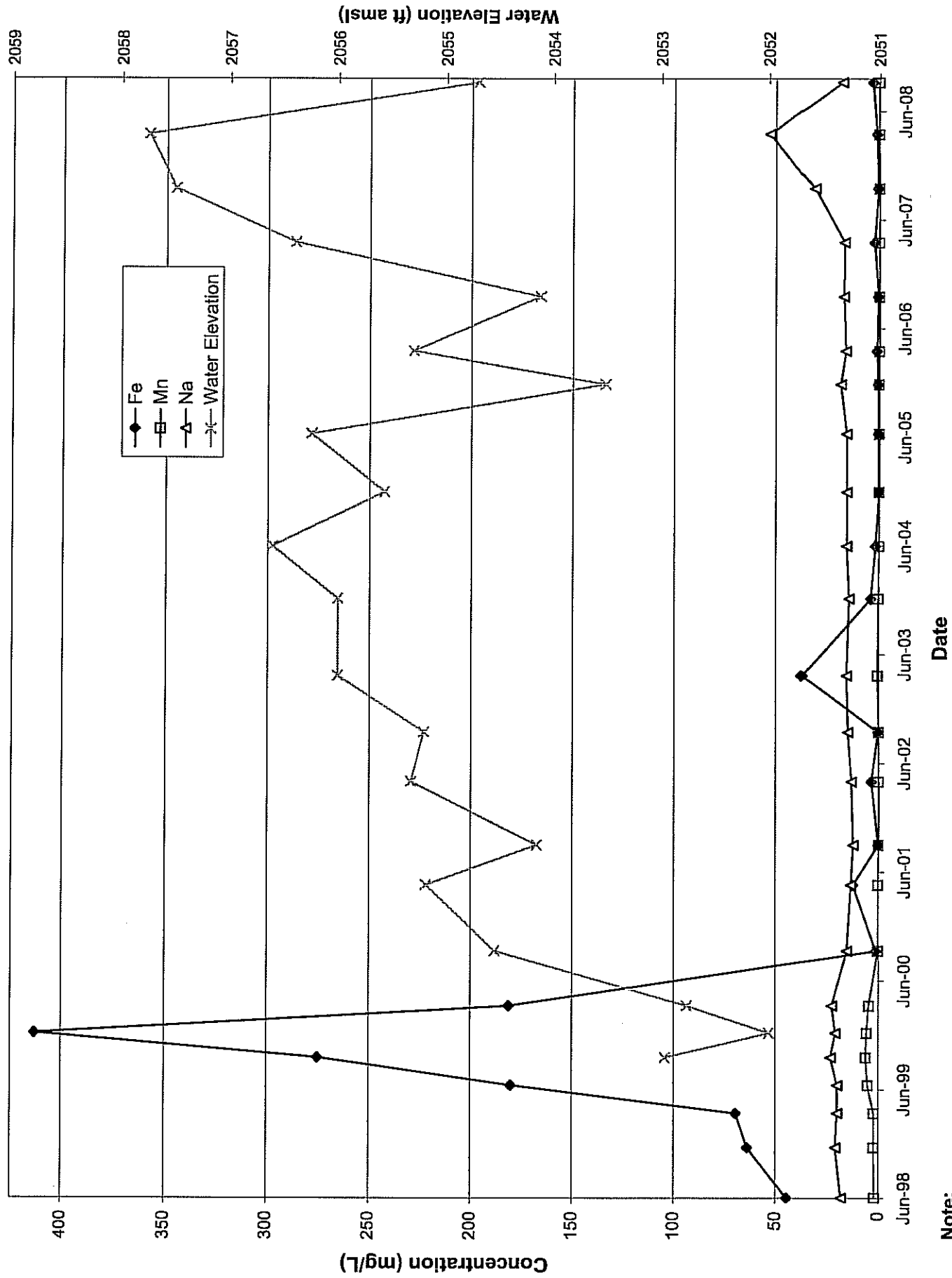
MW-15S Metals



Notes:

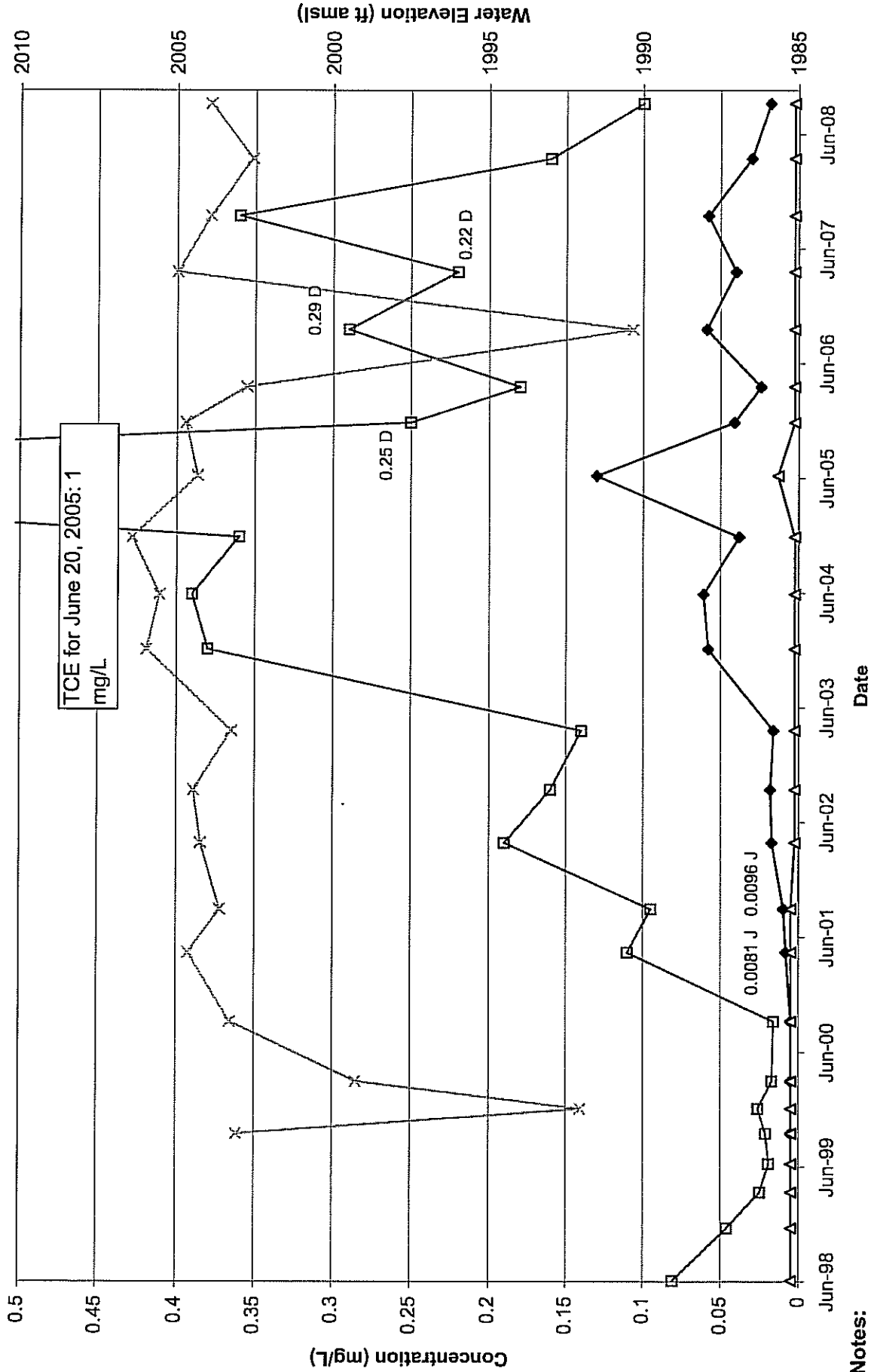
- 1/2 detection limit used for non-detects
- Manganese is non-detect on 4/10/2002 and 9/28/2006.
- VOCs only collected on 9/1/2001 due to insufficient water volume.

MW-18S Metals



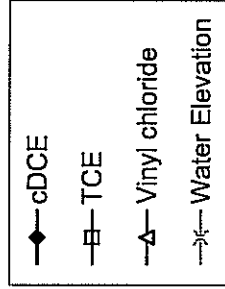
Note:
1. 1/2 Detection limit used for non-detects

CW-3A VOCs

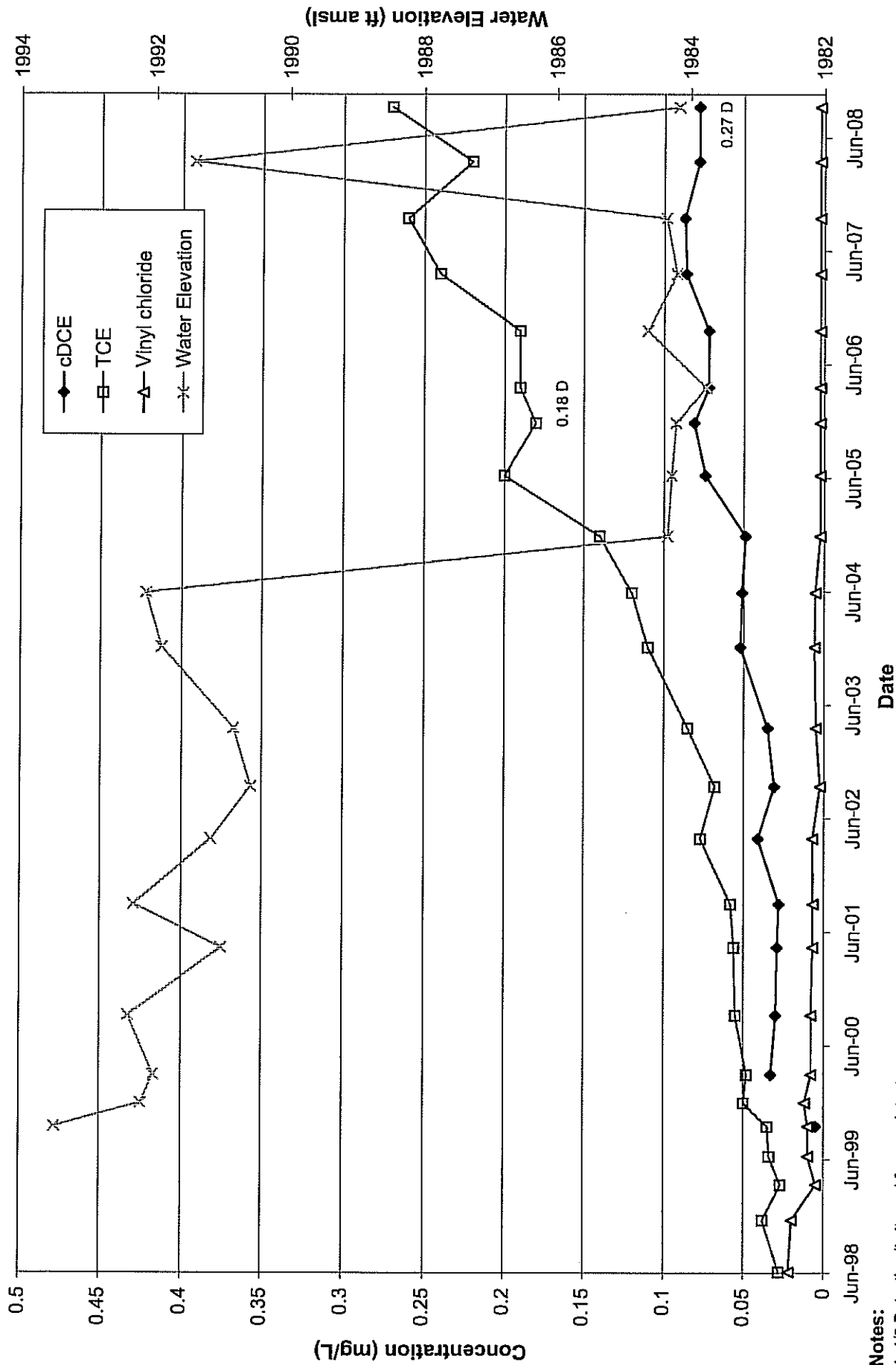


Notes:

- 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.



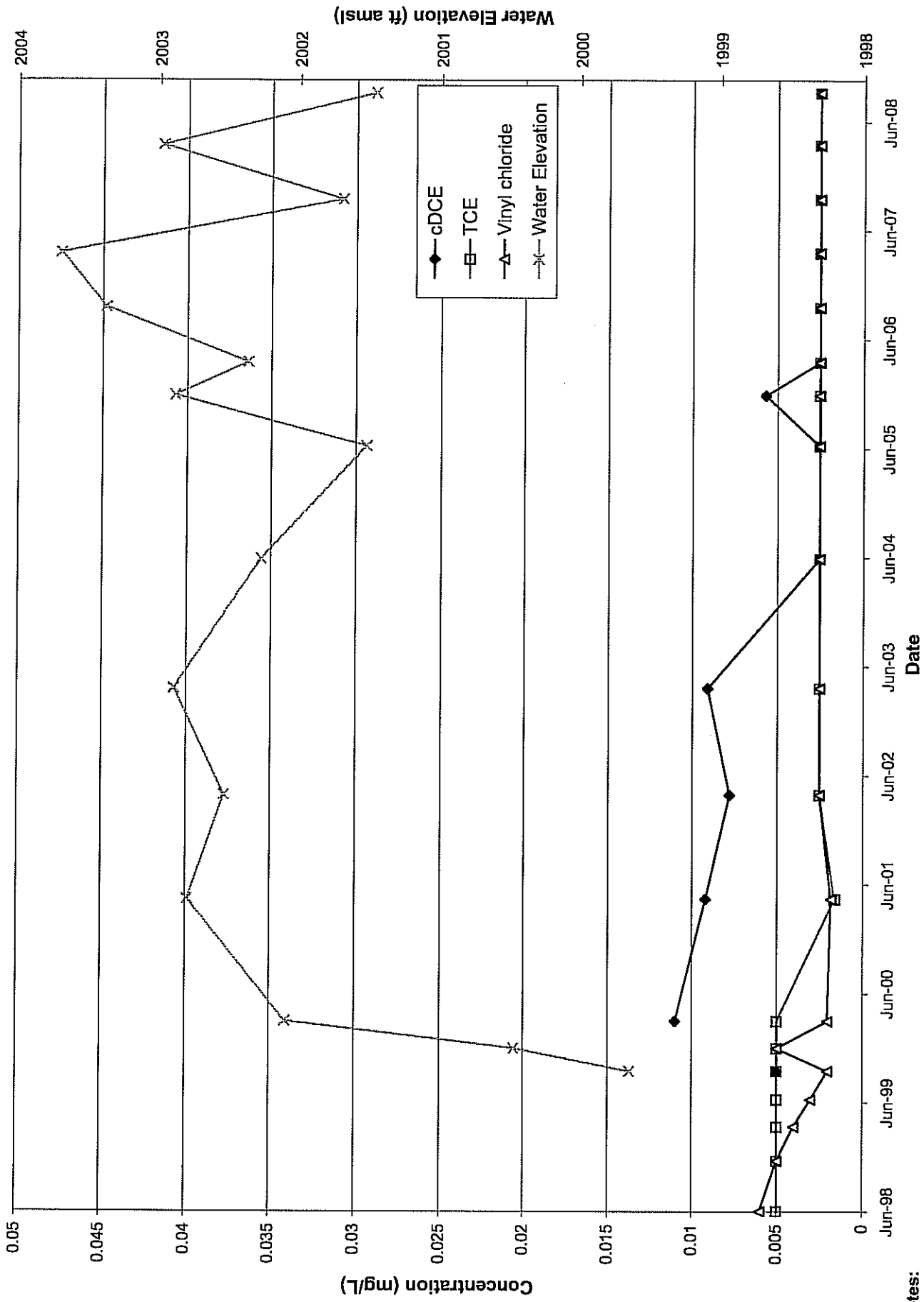
CW-3B VOCs



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.

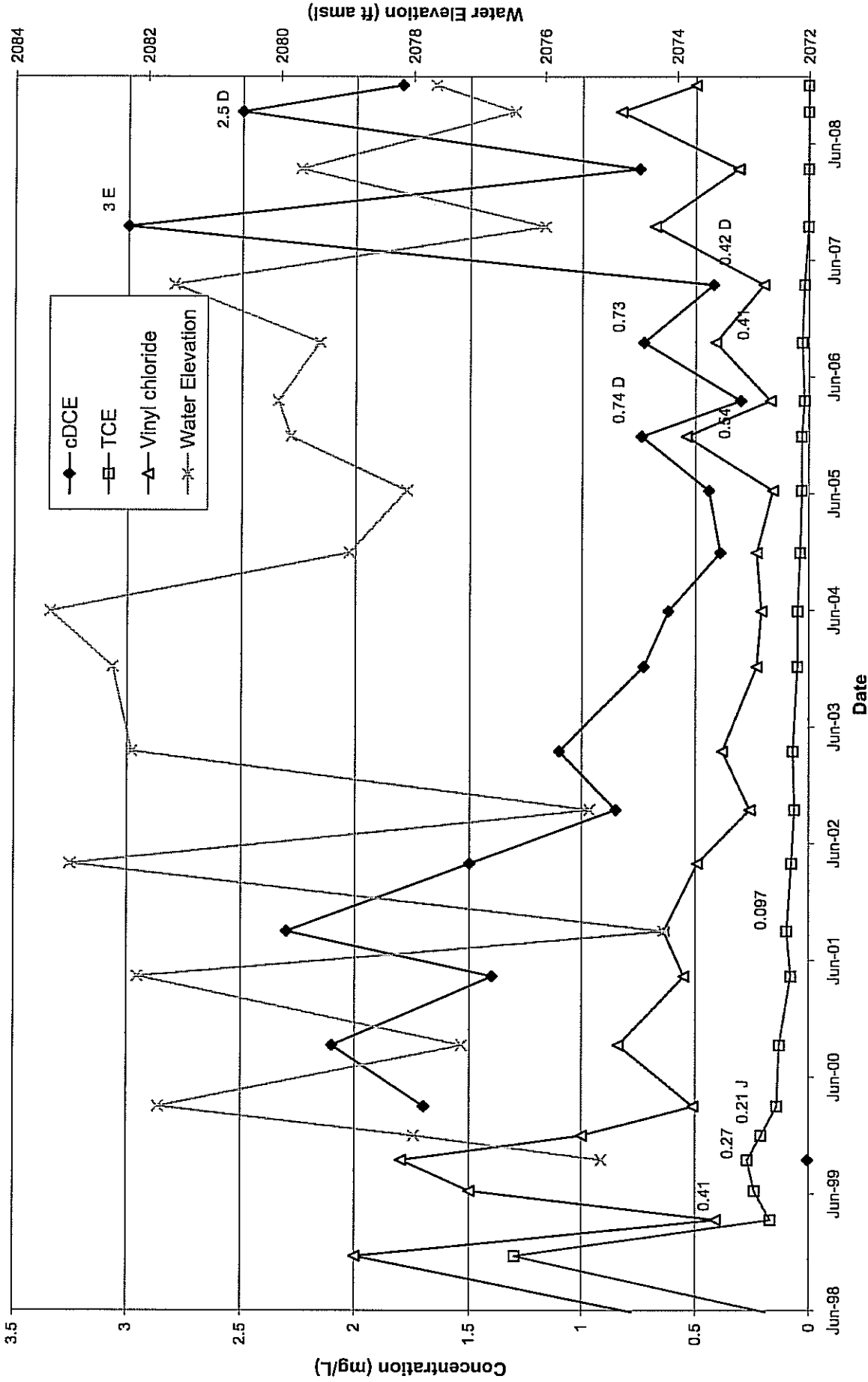
CW-4B VOCs



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.

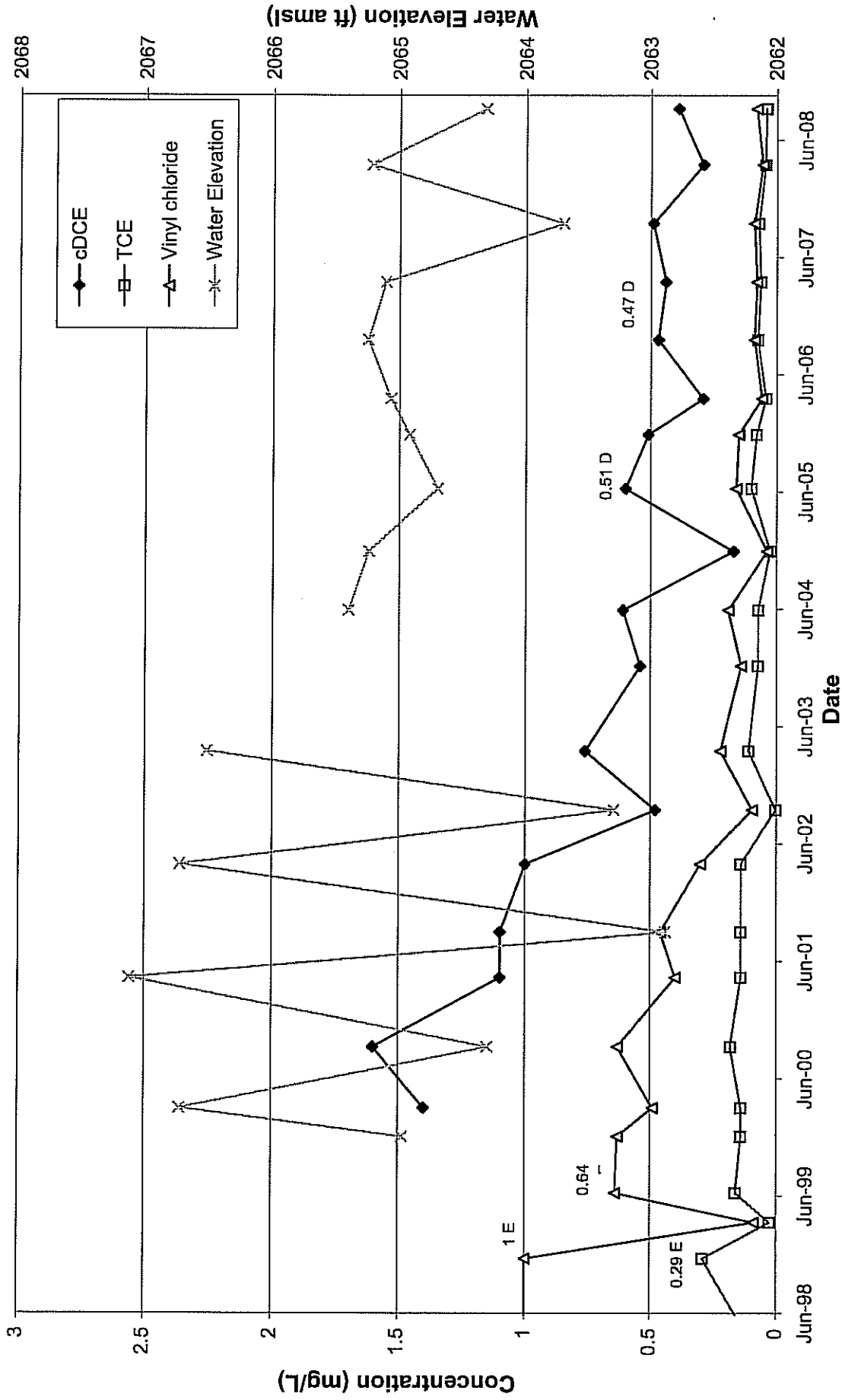
MW-4D VOCs



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.

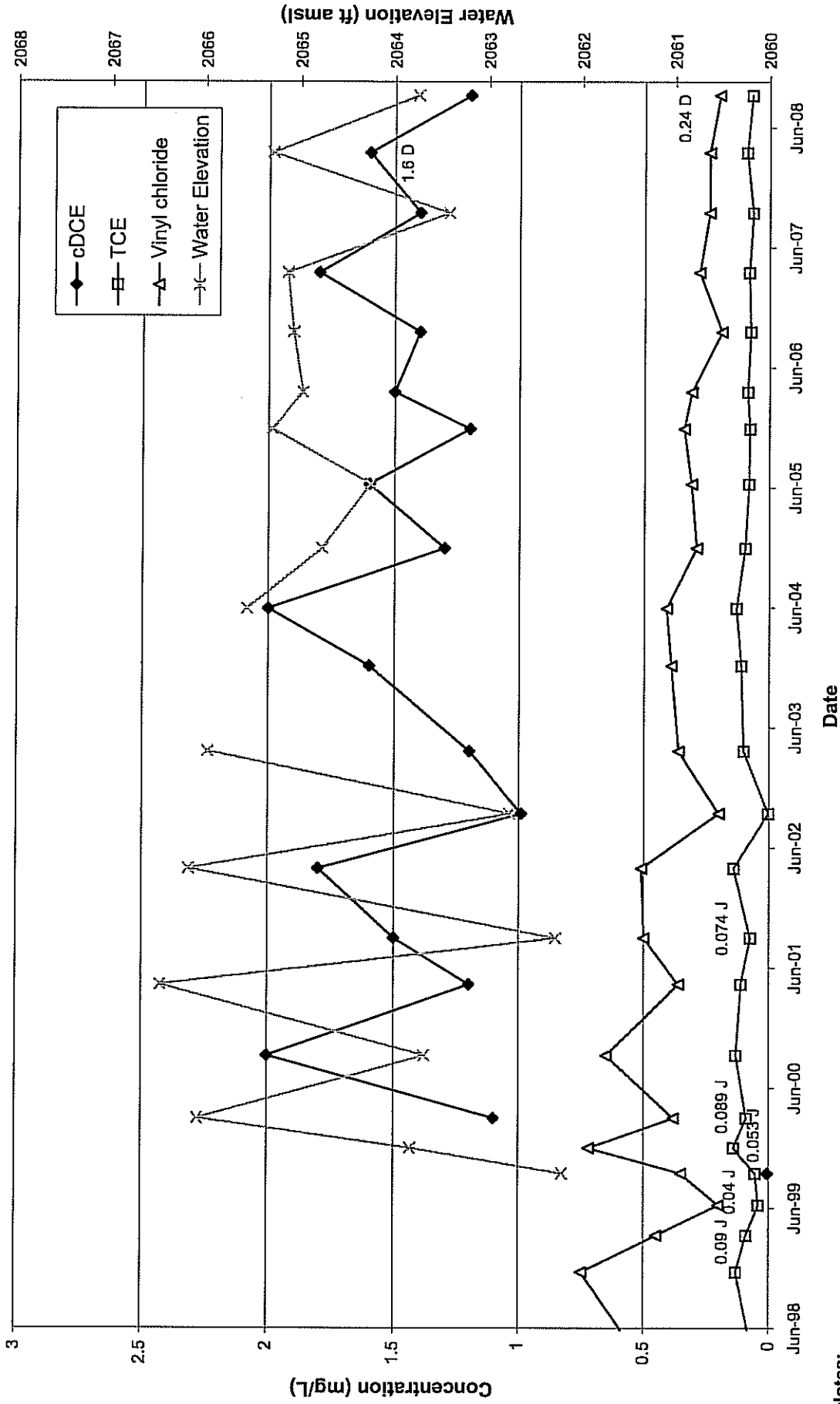
MW-5S VOCs



Notes:

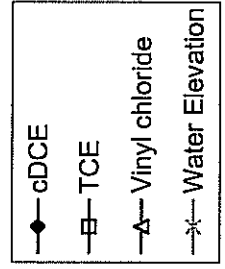
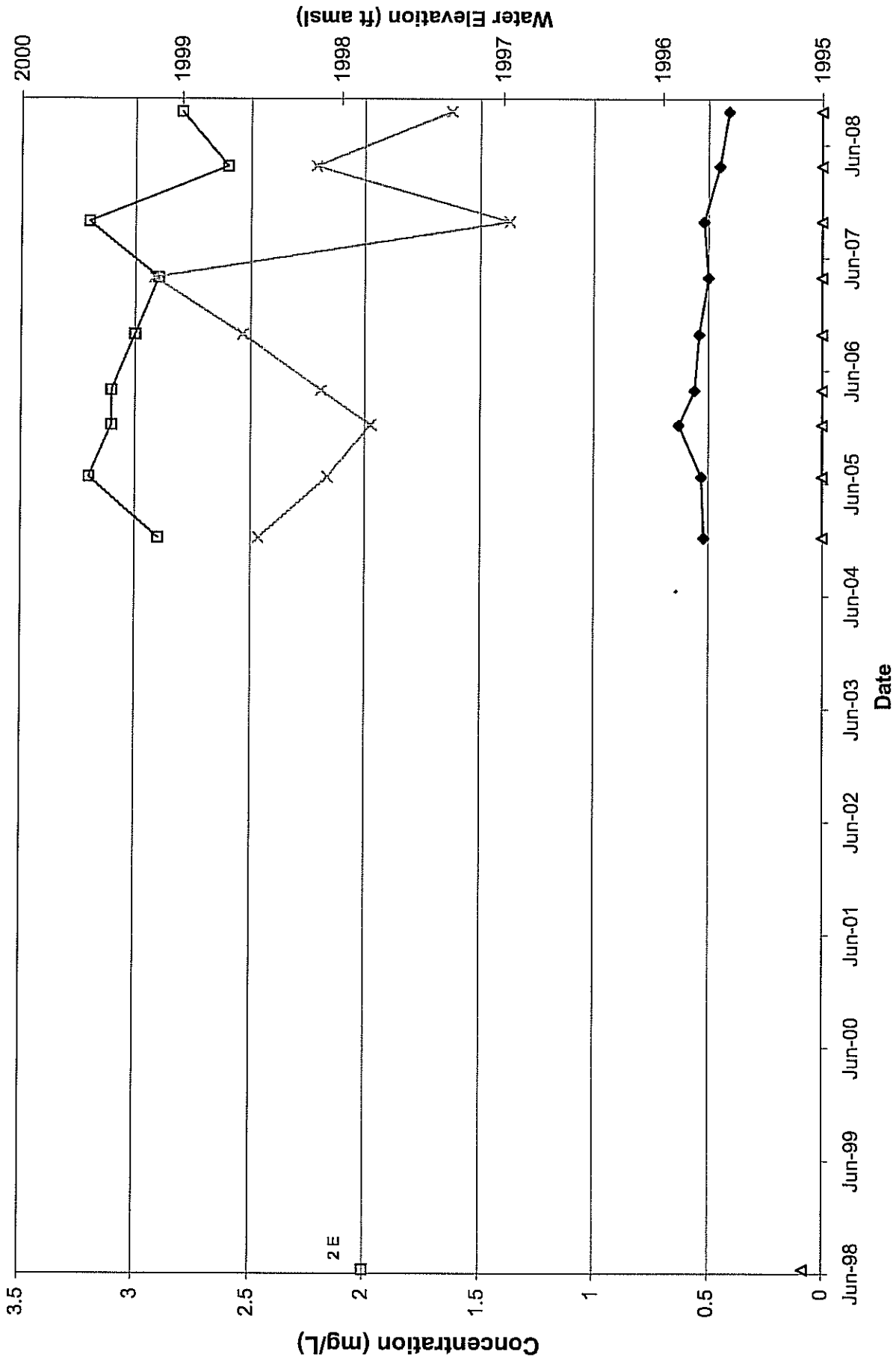
1. 1/2 Detection limit used for non-detects.
2. Refer to Table B-1 (following graphs) for analytical results used in graphs.
3. TCE result on 9/26/2002 is non-detect.
4. E - Results are greater than the calibration range of the instrument used for analysis.
5. D - This flag indicates a result from a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

MW-5D VOCs



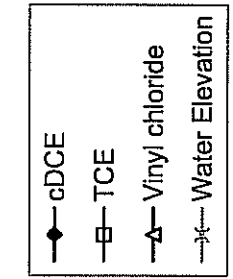
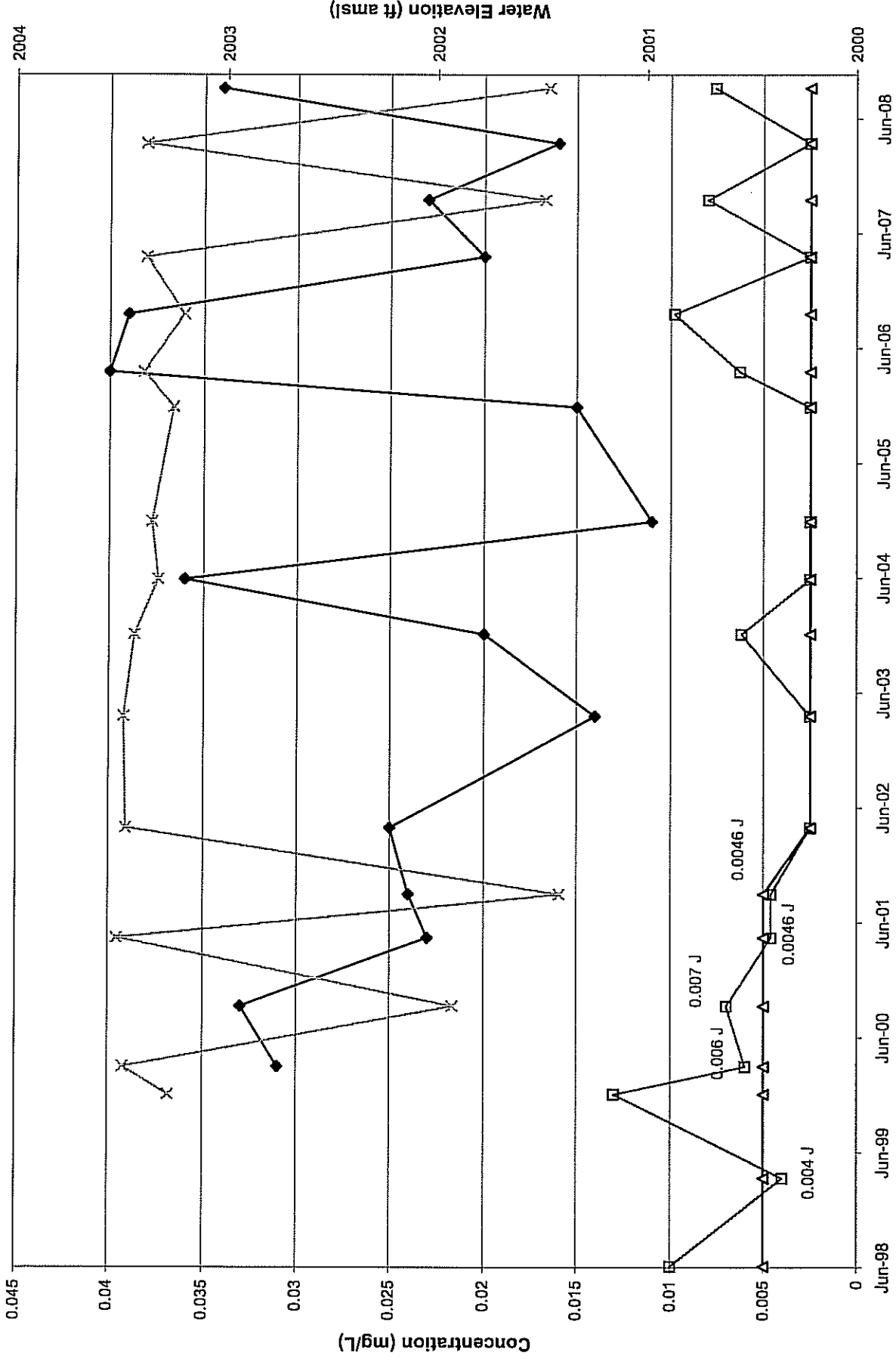
- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - TCE results on 6/9/1998, 9/23/1999, 6/23/1999, 9/28/1999, 3/14/2000 and 9/12/2001 are estimated values.
 - Result for cDCE on 9/28/1999 is non-detect.
 - J - Estimated 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.

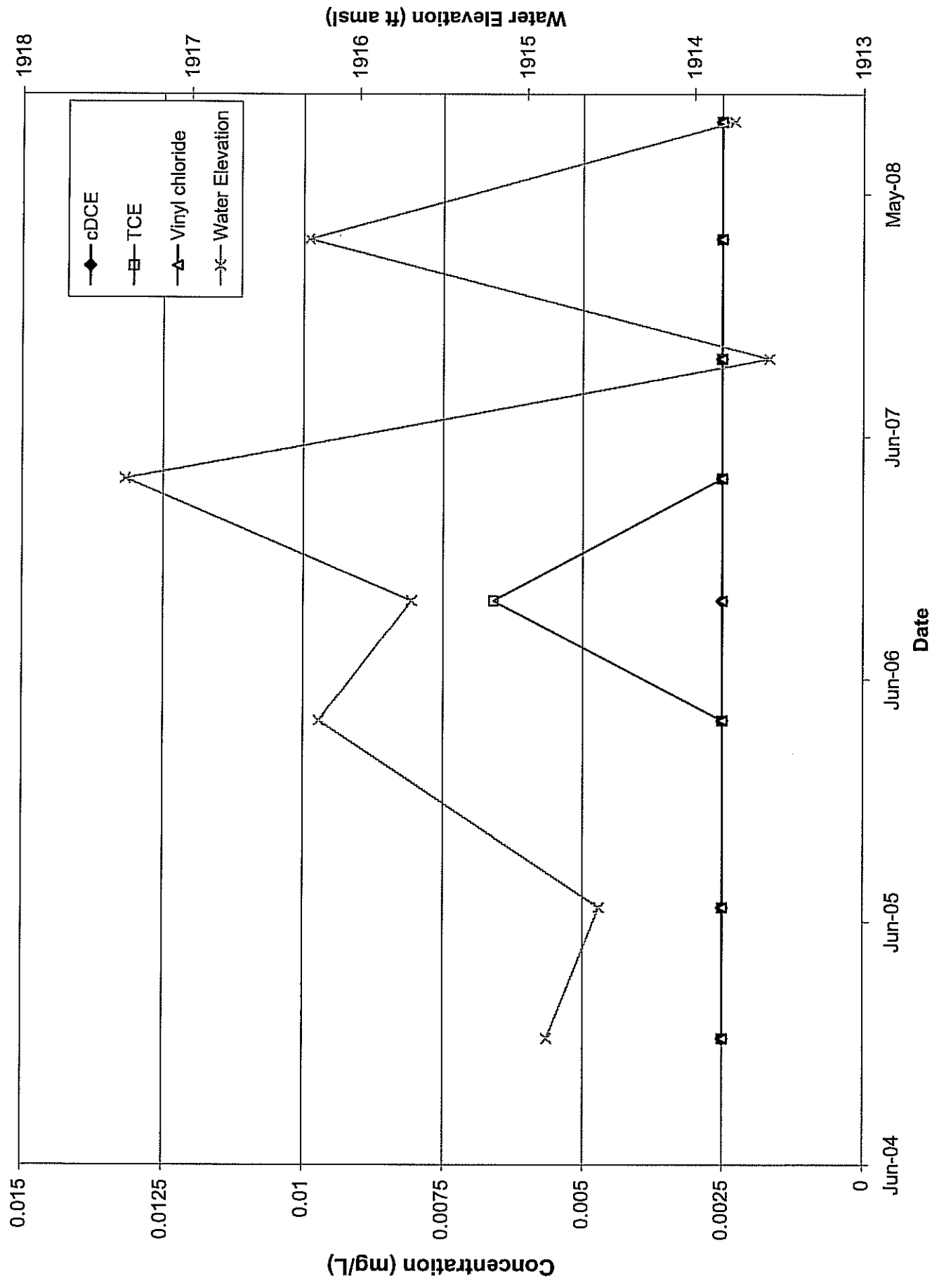
MW-15S VOCs



Date

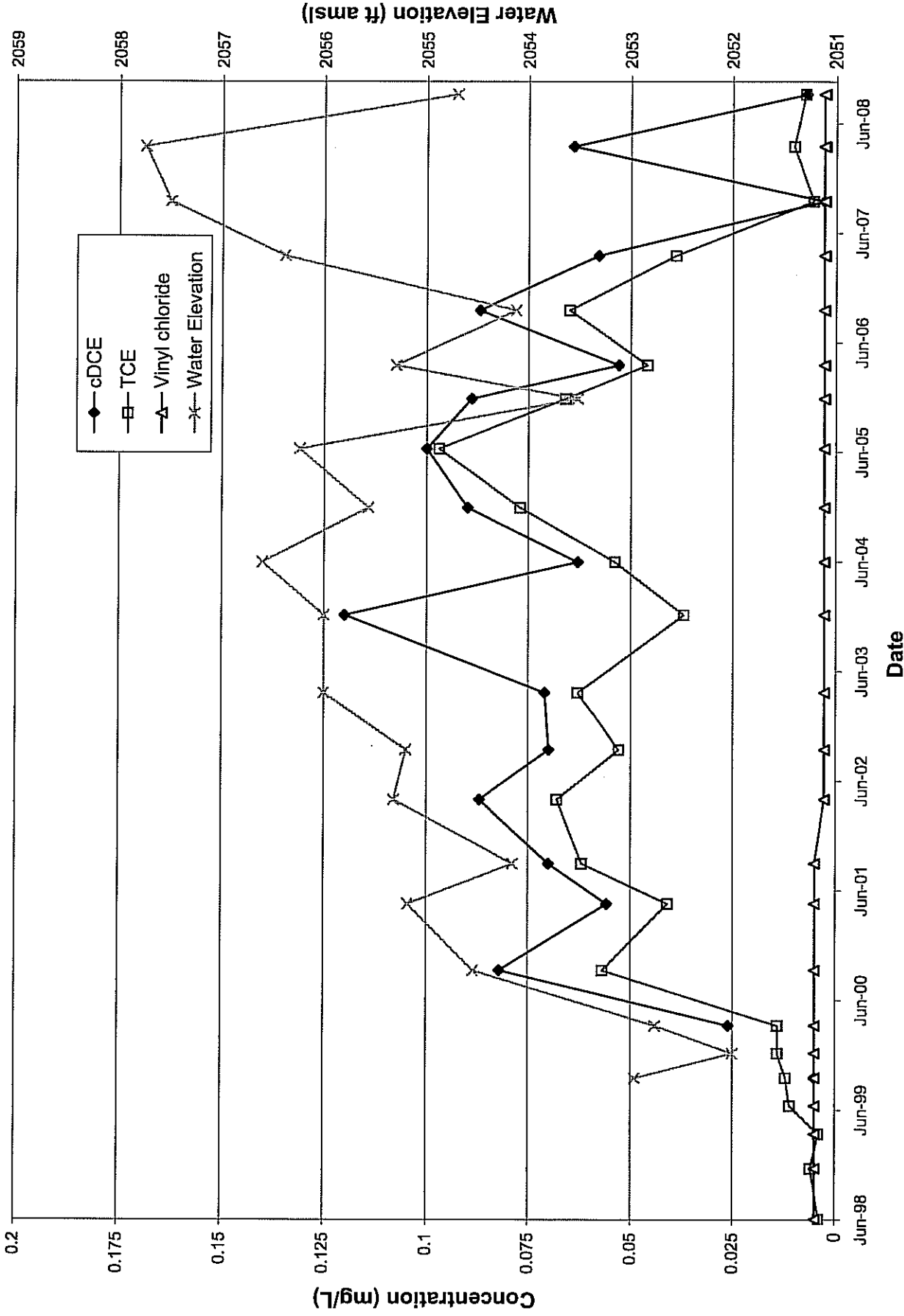
- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - J - Estimated value.
 - All Vinyl chloride and a majority of TCE results are non-detect.
 - Data with flag labeled on graph as appropriate.

MW-16S VOCs



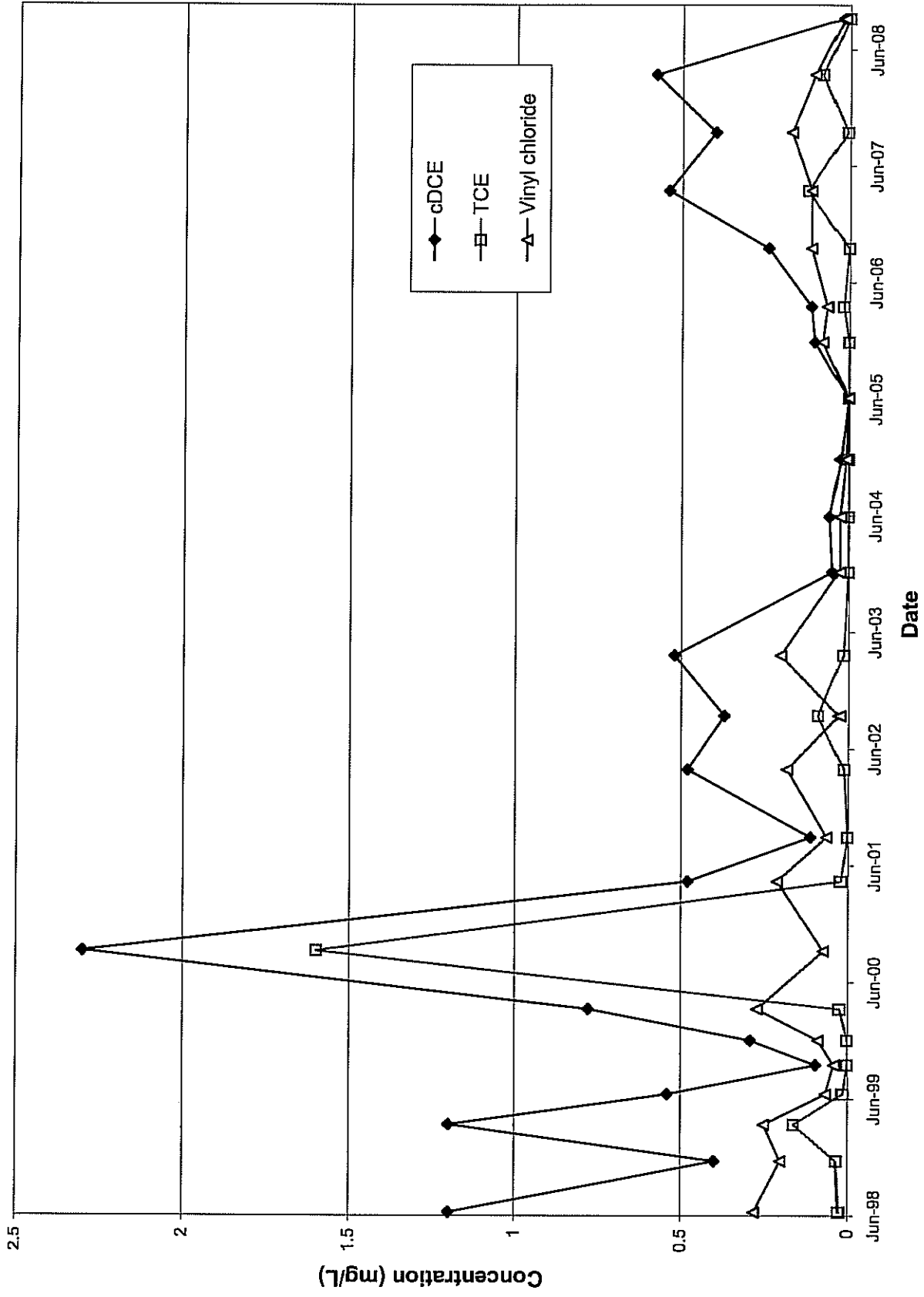
Notes:
 1. All values for cDCE, TCE and Vinyl chloride are non-detect with the exception of TCE on 9/27/2006.
 2. There is no data available for MW-16S prior to December 2004.

MW-18S VOCs



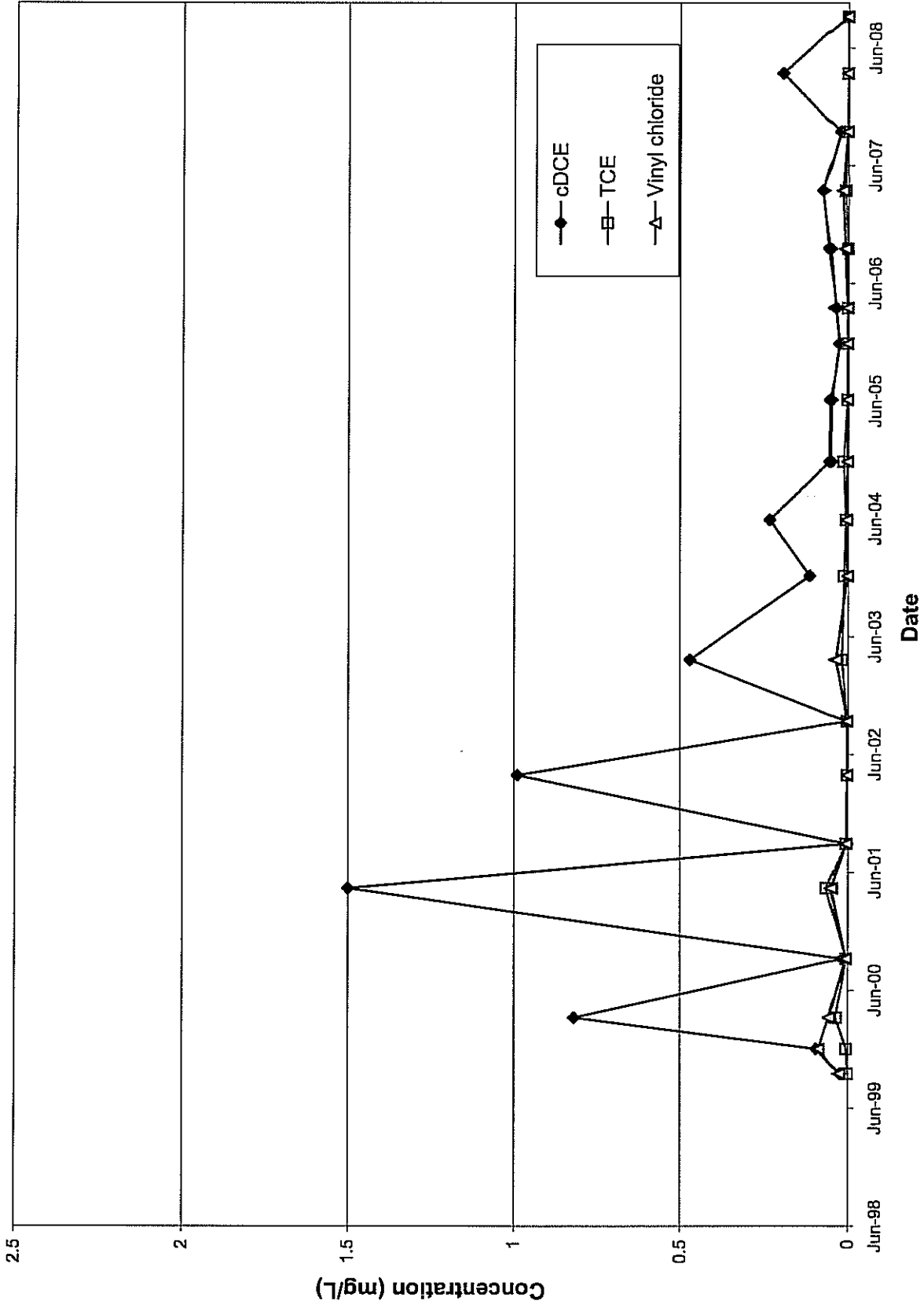
- Notes:
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - TCE results on 6/15/1998, 12/1/1998 and 3/26/1999 are estimated values.
 - Vinyl chloride results are non-detect; cDCE is non-detect on 9/29/1999 and 9/25/2007.

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+s"																								
Total "u+s"																								203
Total "u"																								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	9/19/00	12/10/00	3/10/01	6/10/01	9/10/01	12/10/01	3/10/02	6/10/02	9/10/02	12/10/02	3/10/03	6/10/03	9/10/03	12/10/03	3/10/04	6/10/04	9/10/04	12/10/04	3/10/05	6/10/05	9/10/05	12/10/05	3/10/06	6/10/06	9/10/06	12/10/06	3/10/07	6/10/07	9/10/07	12/10/07	3/10/08	6/10/08	9/10/08	12/10/08						
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	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42						
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	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348			
Compute Statistic (S)	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	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348			
Significance Level	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
Decision	+	-	-	-	-	+	-	-	-	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Total "+"	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Total "-"	0	1	1	1	1	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

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 = $(P(Z > z_0) = 1 - z_p)$, where z_p from Table A-1 = 0.9999 (off scale)

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 $> z_{0.05}$

Since absolute value $z_0 = 5.1873 > 1.645$ 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)

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: $V(S) = S - \text{sign}(S) / \sqrt{S} * 0.5$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$ and $V(S) = 1/18(n(n-1)(2n+5) - [t_1(t_1-1)(2t_1+5) + t_2(t_2-1)(2t_2+5)] + \dots$ 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

$V(S) = 1623.33$
 $z_0 = 5.1873$

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006
 1/2 detection limit used for non-detects.
 Page 2 of 9

Table 1

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

Monitoring Well CW-4B Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/15/98	12/1/98	3/25/99	6/24/99	9/28/99	12/13/99	3/13/00	4/25/01	4/9/02	4/1/03	6/8/04	6/20/05	12/7/05	3/28/06	9/27/06	3/29/07	9/25/07	3/25/08	9/16/08		
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
Result (mg/L)	0.021	0.0025	0.012	0.017	0.014	0.007	0.013	0.0126	0.0078	0.0091	0.0025	0.0025	0.0057	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025		
Count "+"	-	-	+	+	+	+	+	+	+	+	-	0	0	0	0	0	0	0	0		
Count "-"																					
Count "u"																					
Total "u" = 20																				Total "u" = 115	

S = Total Number of "+" minus Total Number of "-" = -95

STEP 4. a) Critical Value: From Table A-2, $z_{\alpha/0.05}$ (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 = $(P(Z > z_\alpha) = 1 - z_{p_i}$ where z_{p_i} from Table A-1 = 0.0002

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 $> z_{\alpha/0.05}$

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 $V(S) = \frac{1}{18} [n(n-1)(2n+5) - \{t_1(t_1-1)(2t_1+5) - \frac{1}{2}(t_2-1)(2t_2+5) + \dots \text{up to } t_g\}]$

Where: n (number of samples) = 19

t_1 = number of tied samples in the first group = 9

t_2 = number of tied samples in second group = 0

g = the number of tied sample groups

$V(S) = 725.00$

$z_0 = -3.4911$

Since absolute value $z_0 = 3.4911 > 1.645$

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 = 0.9998 > 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 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	12/1/00	4/24/01	9/12/01	4/11/02	9/26/02	3/28/03	12/18/03	6/9/04	12/9/04	5/21/05	12/7/05	3/29/06	9/27/06	3/27/07	9/25/07	3/24/08	9/16/08	12/11/08
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	25	26	27
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	2.5	
Count "+"	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Count "-"																											
Count "u"																											
Total "+"	75																										
Total "-"	189																										

S = Total Number of "+" minus Total Number of "-" = -114

STEP 1. Null Hypothesis: H_0 : There is no trend. H_A : There is a downward trend.

STEP 2. Alternate 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 $V(S) = \frac{1}{18} [n(n-1)(2n+5) - (t_1(t_1-1)(2t_1+5) + t_2(t_2-1)(2t_2+5) + \dots + t_g(t_g-1)(2t_g+5))]$
 Where: n (number of samples) = 25
 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

$V(S) = 1833.33$
 $Z_0 = -2.6391$

STEP 4. a) Critical Value: From Table A-2, $z_{0.05}$ (critical value at 5% significance level) = 1.645
 b) Probability Value: p -value = $P(Z > z_0) = 1 - z_0$, where z_0 from Table A-1 = 0.0041
 p -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_0 is $> z_{0.05}$
 Since absolute value $z_0 = -2.6391 > 1.645$
 we reject the null hypothesis of no trend

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 = 0.9959 > 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	118	158		
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	6	17	17	
2.484	+	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	3	19	3
2.98	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	11	10	10
1.74	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	0	0
1.166	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	10	9	9
1.84	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	2	2	16
3.134	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	15	2	2
1.581	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	2	2	14
2.78	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	2	2	14
1.7073	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	8	7	7
4.4528	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	1	1	13
4.9869	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	0	0	13
1.19	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	0	0	13
1.66	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	12	2	0
2.1	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	9	2	0
2.5814	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	2	0	8
1.686	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	5	5	3
1.991	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	5	3	3
1.618	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	5	1	6
1.897	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	5	1	1
1.665	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	5	1	3
2.161	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	3	3	3
1.706	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	3	1	1
1.945	-	-	-	-	-	+	+	+	-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	0	0	1
Total "+"																								118	Total "-"	158		

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

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 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 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 = 0.8350 > 0.05
 we fail to reject the null hypothesis of no trend

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

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 $> Z_{0.95}$. Since absolute value $Z_0 = 3.6723 > 1.645$ 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 = 0.9999 $>$ 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

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:

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

STEP 4. b) Probability Value:

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

STEP 5. a) Conclusion:

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 $V(S) = 1/18(n(n-1)(2n+5) - [t_1(t_1-1)(2t_1+5) + t_2(t_2+5)] + \dots \text{ up to } t_g)$

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

$V(S) = 124.00$

$Z_0 = -0.6286$

Therefore:

We fail to reject the null hypothesis of no trend / stable

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

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

p-value = $P(Z > Z_0) = 1 - Z_{0.95}$ where $Z_{0.95}$ from Table A-1 = 0.2648

p-value = 0.7352

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

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

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5
0.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	1
0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4
0.0463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5
0.0488	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	0
0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	0
0.031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5
0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1
0.0416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1
0.0416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0
																						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)

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 = $P(Z > Z_0) = 1 - Z_p$ 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 $> Z_{0.05}$
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	12/9/04	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 "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 "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 "0"			
	0.024	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	3	3	103			
	0.026	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19	2	2	103			
	0.018	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19	2	2	103			
	0.038	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	18	2	2	103			
	0.04	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	17	2	2	103			
	0.049	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	16	2	2	103			
	0.087	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	3	3	103			
	0.139	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	6	10	10	103			
	0.132	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	11	3	3	103			
	0.155	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	7	7	7	103			
	0.123	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	9	9	103			
	0.134	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	6	6	6	103			
	0.157	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	5	5	5	103			
	0.117	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	8	8	103			
	0.167	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	7	7	103			
	0.197	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	0	0	103			
	0.155	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	0	0	103			
	0.134	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	4	4	103			
	0.152	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	0	0	103			
	0.097	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	0	0	103			
	0.052	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	2	2	103			
	0.074	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	0	0	103			
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 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 = 0.9516		p -value = 0.0482	
STEP 2. Alternative Hypothesis:	H_A : There is an upward 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 $z_0 = 1.6529 > 1.645$ we 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 $S < 0$																										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	
and $V(S) = 1/16(n(n-1)(2n+5) - [t_1(t_1-1)(2t_1+5) + t_2(t_2-1)(2t_2+5)] + \dots$ 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																														
	$V(S) = 1623.33$																														
	$z_0 = 1.6529$																														
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

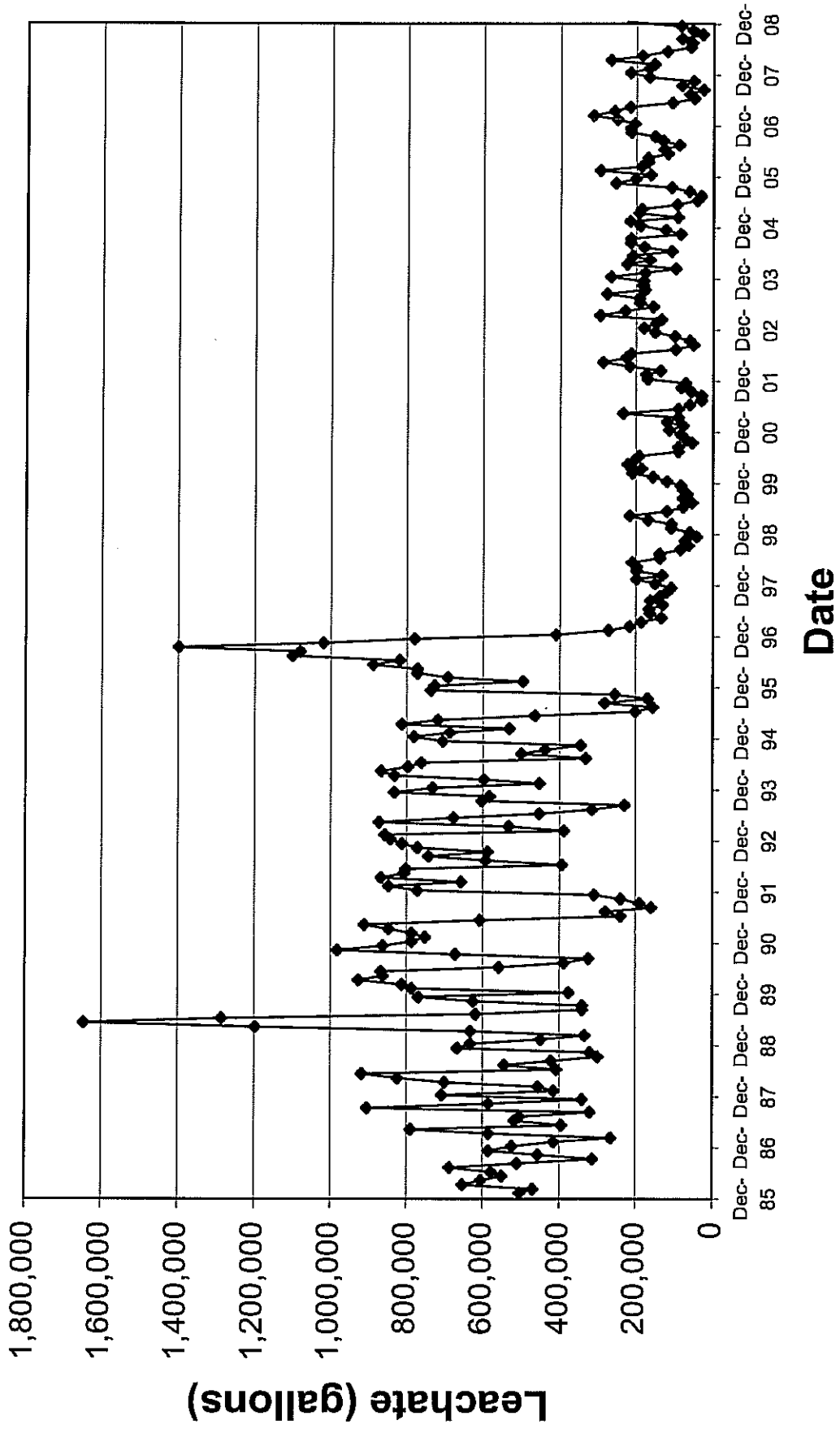
² WAL-19 tested for VOCs prior to filters, between filters and after filters

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

Figure 5-3

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

Area	Item	Action	Comments
Inspector:		BRADLEY J. MAURKON	
Weather:		PARTLY Sunny Wind W @ 14 MPH	
		Date:	3/27/13
		Temperature:	36°
Area	Item	Action	Comments
Cover system	Scops	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.	Mowed OCT 2012
		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 618, 989
	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: BRANLEY + MATTHEW Date: 3/27/13
 Weather: Partly Sunny wind w @ 14 mph Temperature: 36°

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 building, erosion, condition of vegetation and embankments.		OK	
Groundwater monitoring system	Sampling wells	See Section 4.	Performed By on-site
		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.	
	Access gate	Check condition. Lubricate lock.	
Other	Comments		

Signed: BRANLEY S. MATTHEW
 Date: 3/27/13

Figure 5-3

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

Inspector: <u>Brian White</u>		Date: <u>6/21/13</u>		
Weather: <u>Pretty Sunny</u>		Temperature: <u>74°</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 semi-annually.	Mowed OCT 2012
			Remove shrubs 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 filter, check for sediment in bottom of tanks.	April, May, June 387,005	
	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	
	Fouling	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.		
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.		

Figure 5-3

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

Inspector: Ryan W. Mattison To: _____ Date: 6/21/13
 Weather: Pretty Sunny Temperature: 74°

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. Check for siltation/silt building, erosion, condition of vegetation and embankments.	OK OK
Groundwater monitoring system	Sampling wells	See Section 4.	Performed by on-site
		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: Dwight J. Mattison
 Date: 6/21/13

Figure 5-3

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

Inspector: <u>William D. Whitfield</u>		Date: <u>9/27/13</u>	
Weather: <u>Sunny</u>		Temperature: <u>57°</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.	OK
		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. 2013 130,690
	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
	Force main	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 ONSITE OK
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench; Note which line (surface drainage or LCS) is plugged.	Performed by Onsite OK
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 Onsite OK

Figure 5-3

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

Inspector: William D Whittfield To: _____ Date: 9/27/13
 Weather: Sunny Temperature: 57°

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.	Performed by On site
		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		

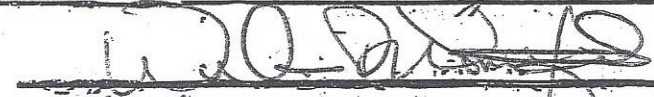
Signed: 
 Date: 9/27/13

Figure 5-3

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

Inspector: <u>Erin W. Harrison</u>		Date: <u>12/16/13</u>		
Weather: <u>Partly Sunny</u>		Temperature: <u>19°</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 semi-annually.	OK
			Remove shrubs 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.	OCT, NOV, DEC. 2013 553585	
	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	
	Force-main	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 onsite OK	
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench; Note which line (surface drainage or LCS) is pinged.	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**

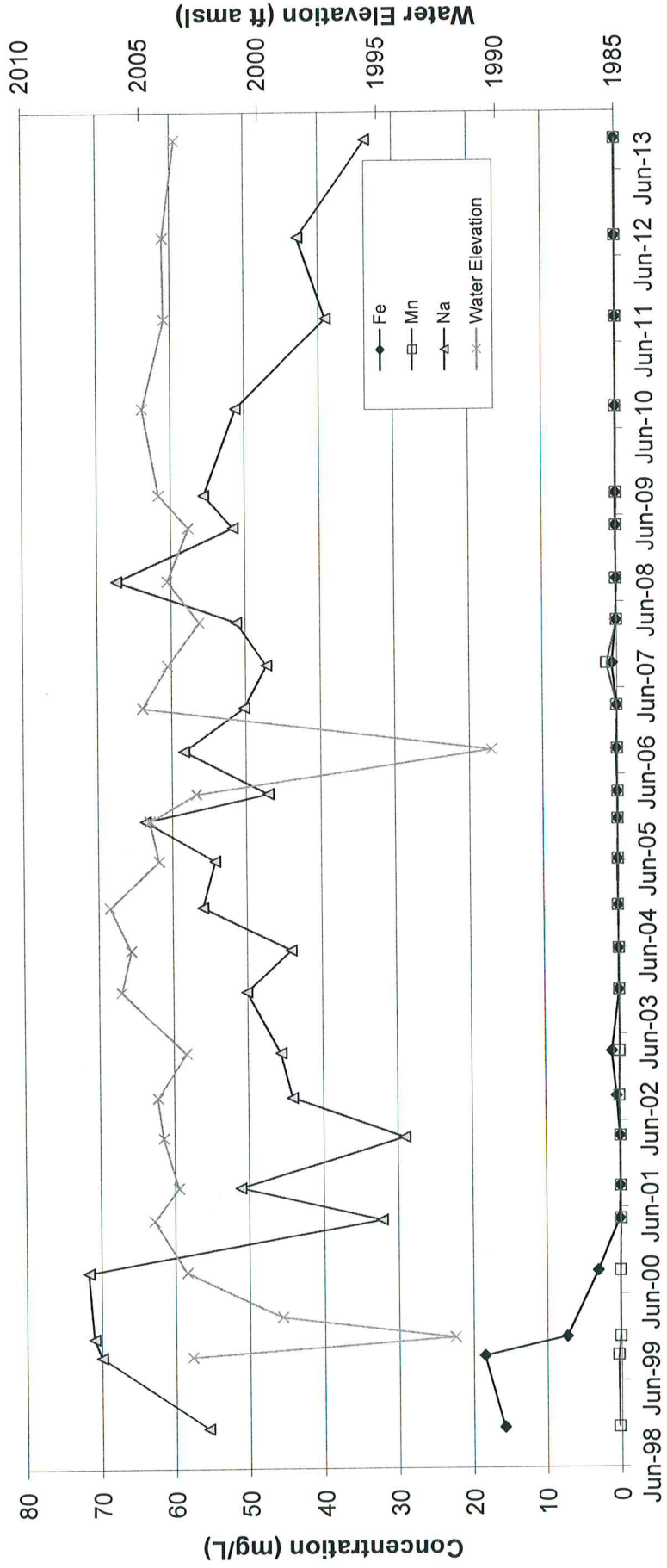
Inspector: BRAD MATTHEW Date: 12/16/13
 Weather: Partly sunny Temperature: 19°

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. Check for siltation/silt building, erosion, condition of vegetation and embankments.	OK OK
Groundwater monitoring systems	Sampling wells	See Section 4.	Performed by on site
		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. Matthew

Date: 12/16/13

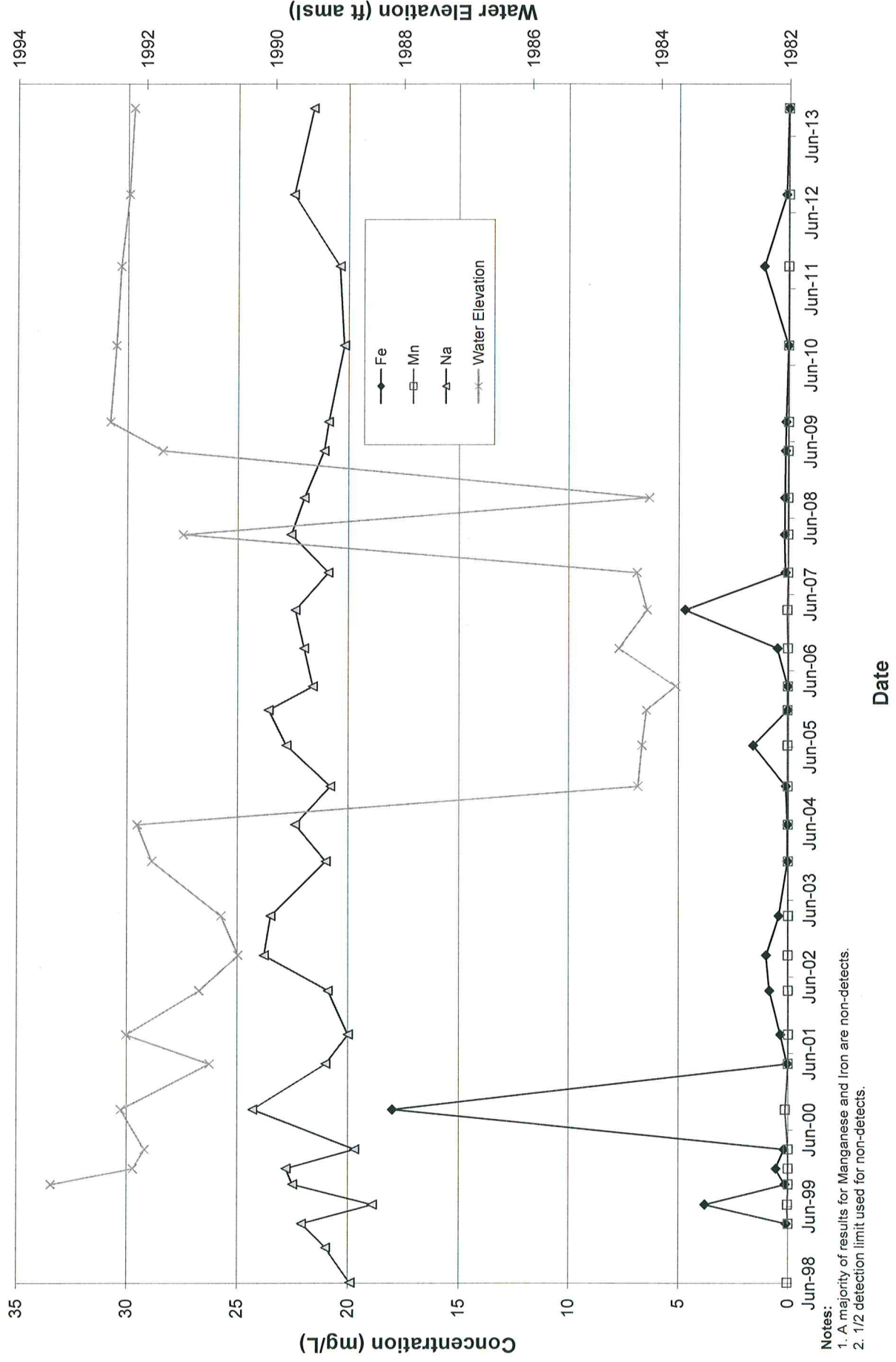
CW-3A Metals



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

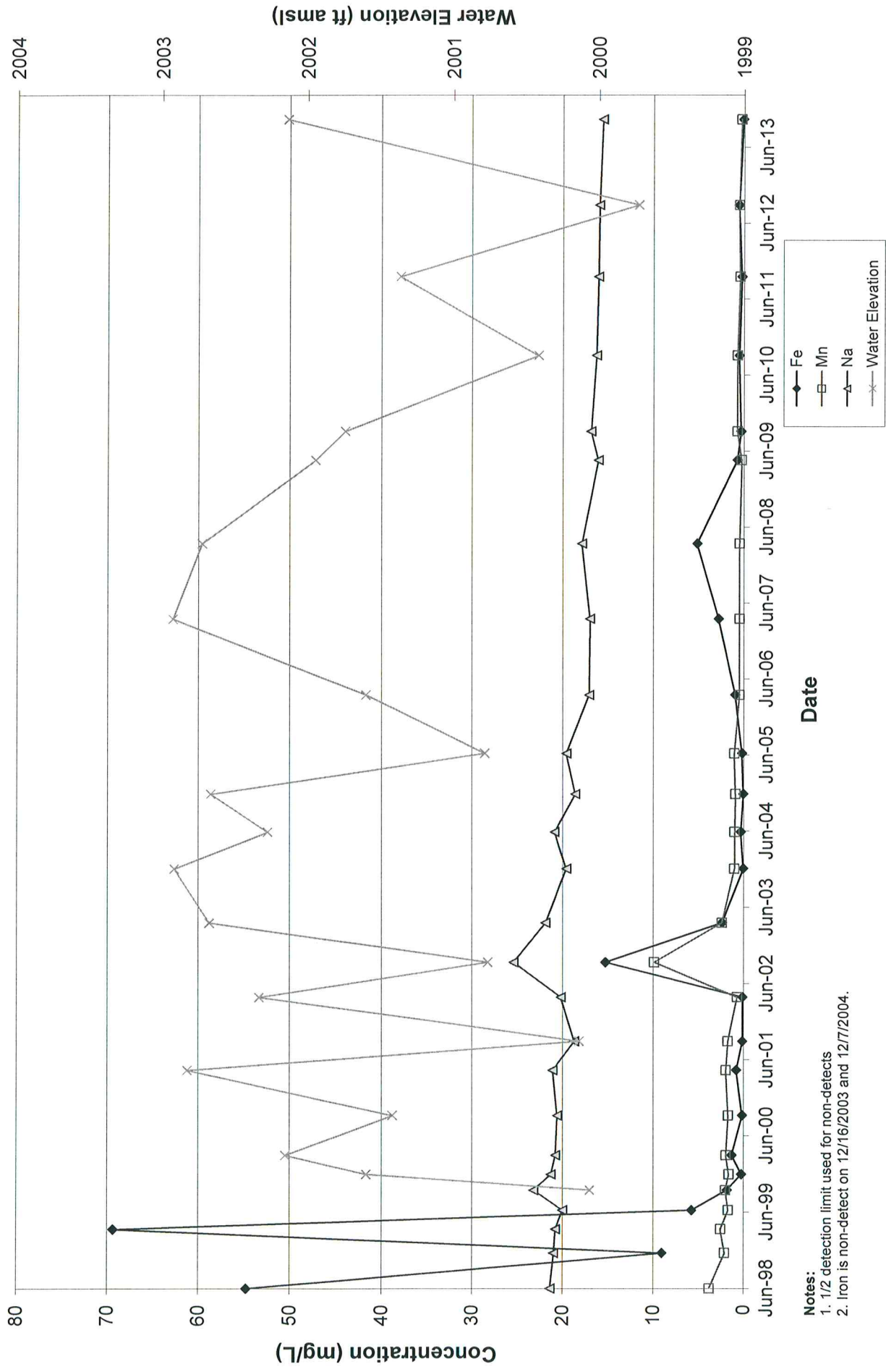
Date

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.

CW-4A Metals

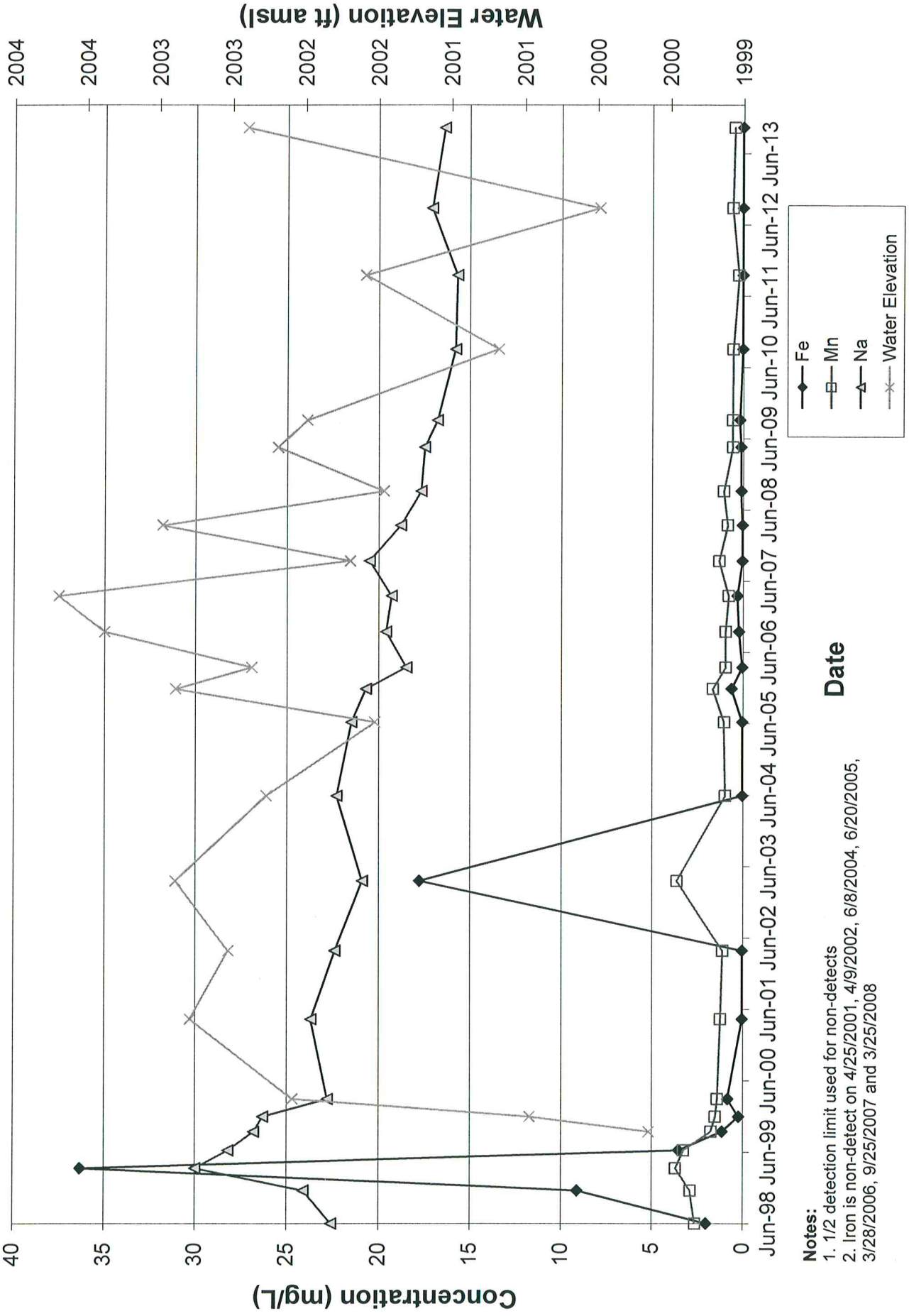


◆ Fe
 □ Mn
 ▲ Na
 × Water Elevation

Date

Notes:
 1. 1/2 detection limit used for non-detects
 2. Iron is non-detect on 12/16/2003 and 12/7/2004.

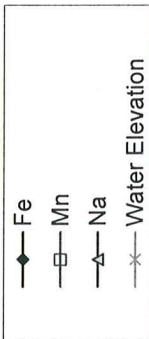
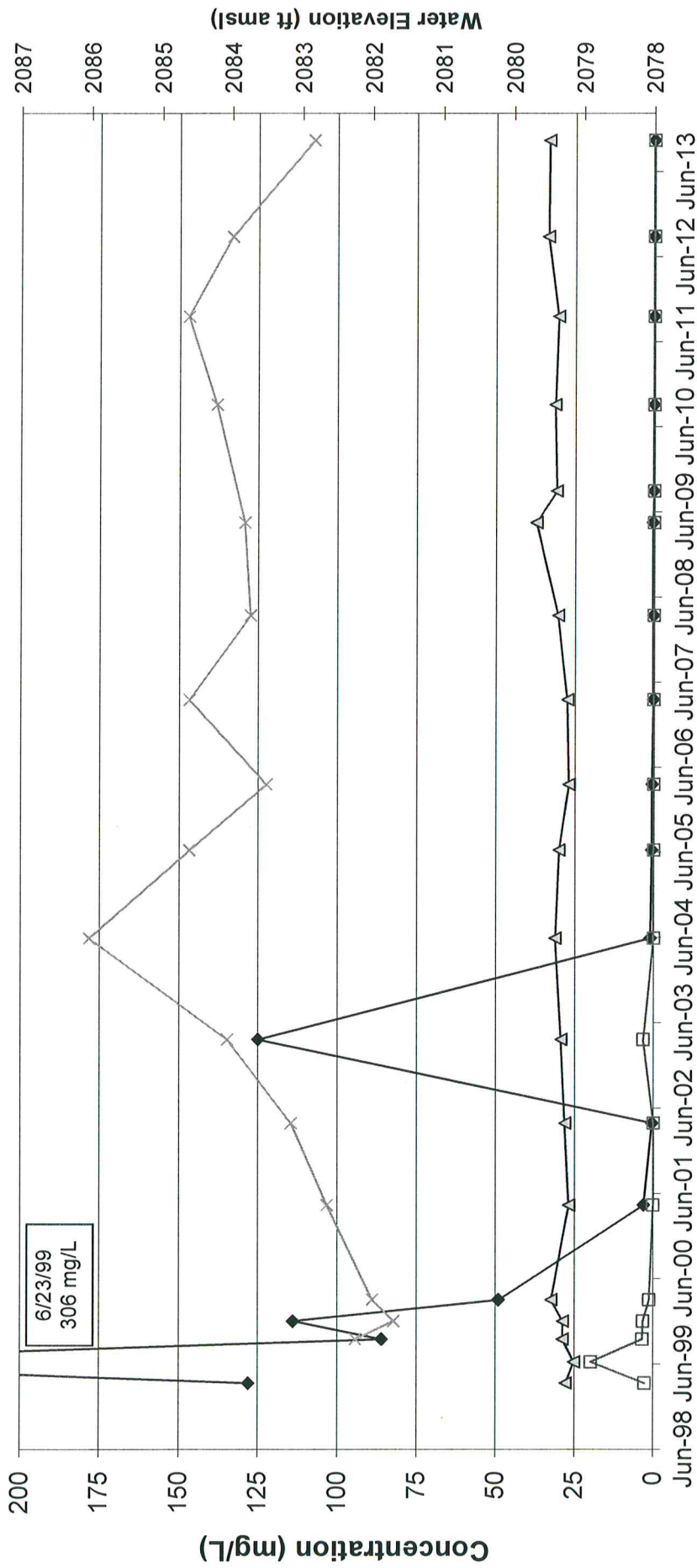
CW-4B Metals



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

Date

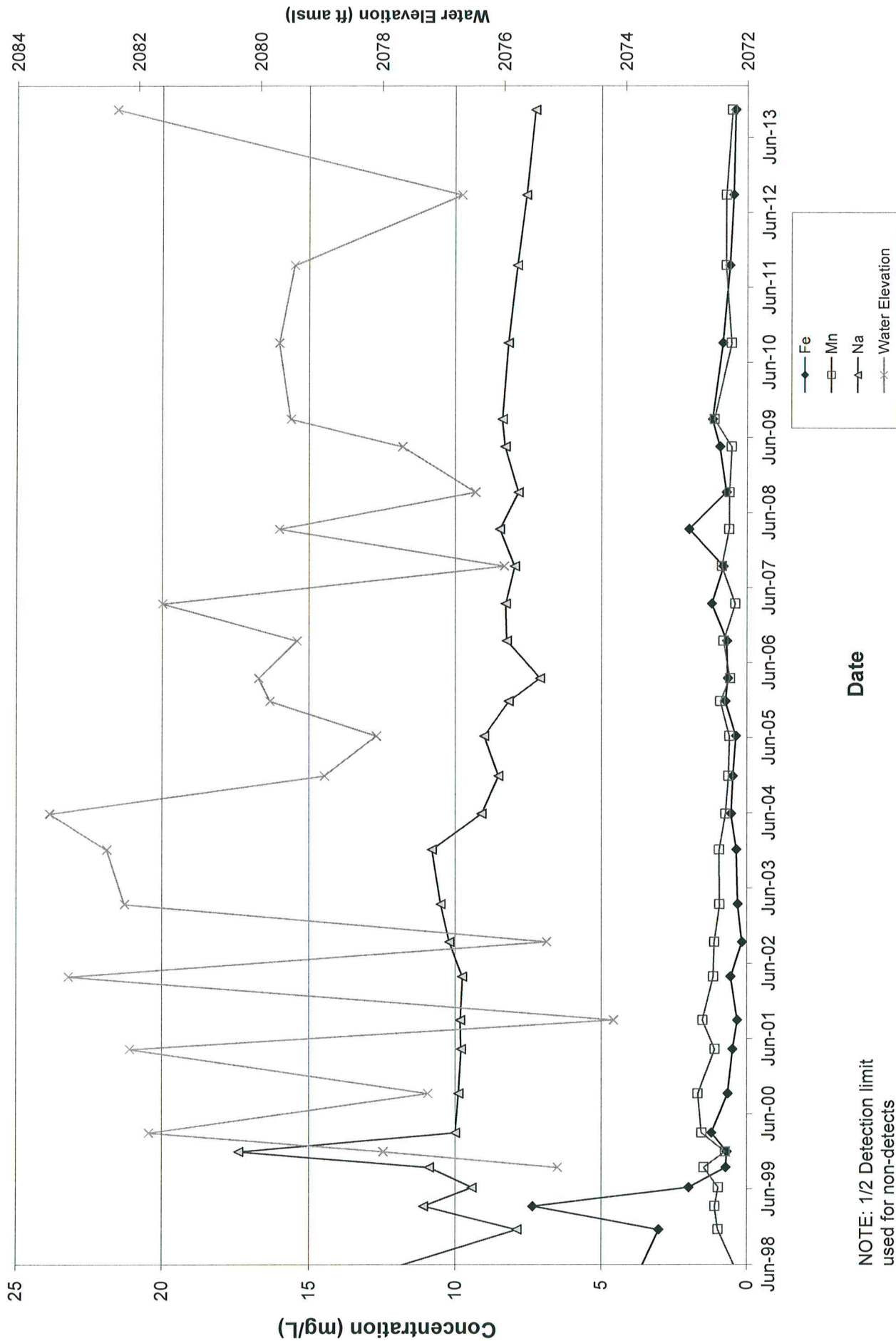
MW-3S Metals



Date

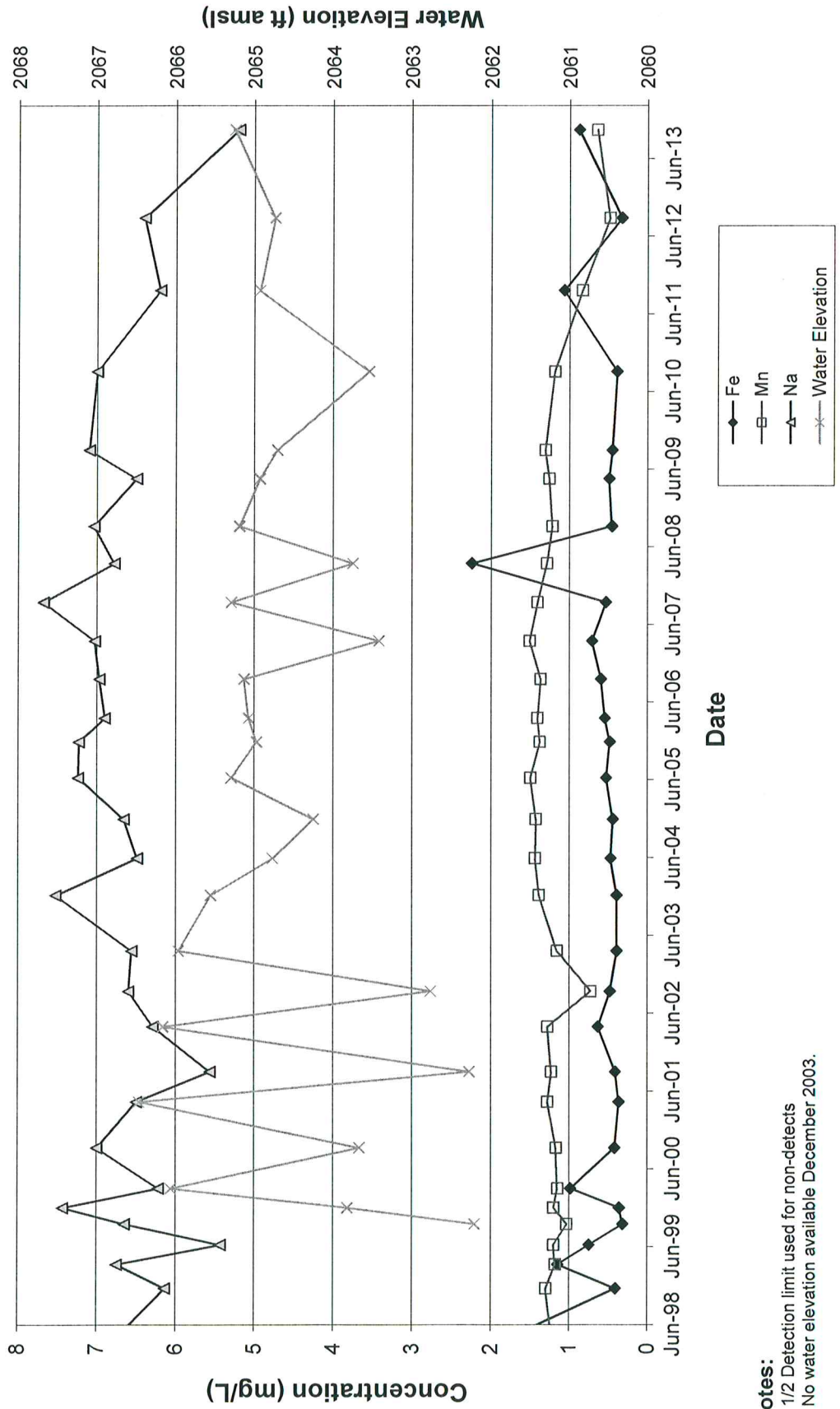
- Notes:**
1. 1/2 detection limit used for non-detects.
 2. Manganese results were non-detect on 3/29/2007 and 3/25/2008.

MW-4D Metals



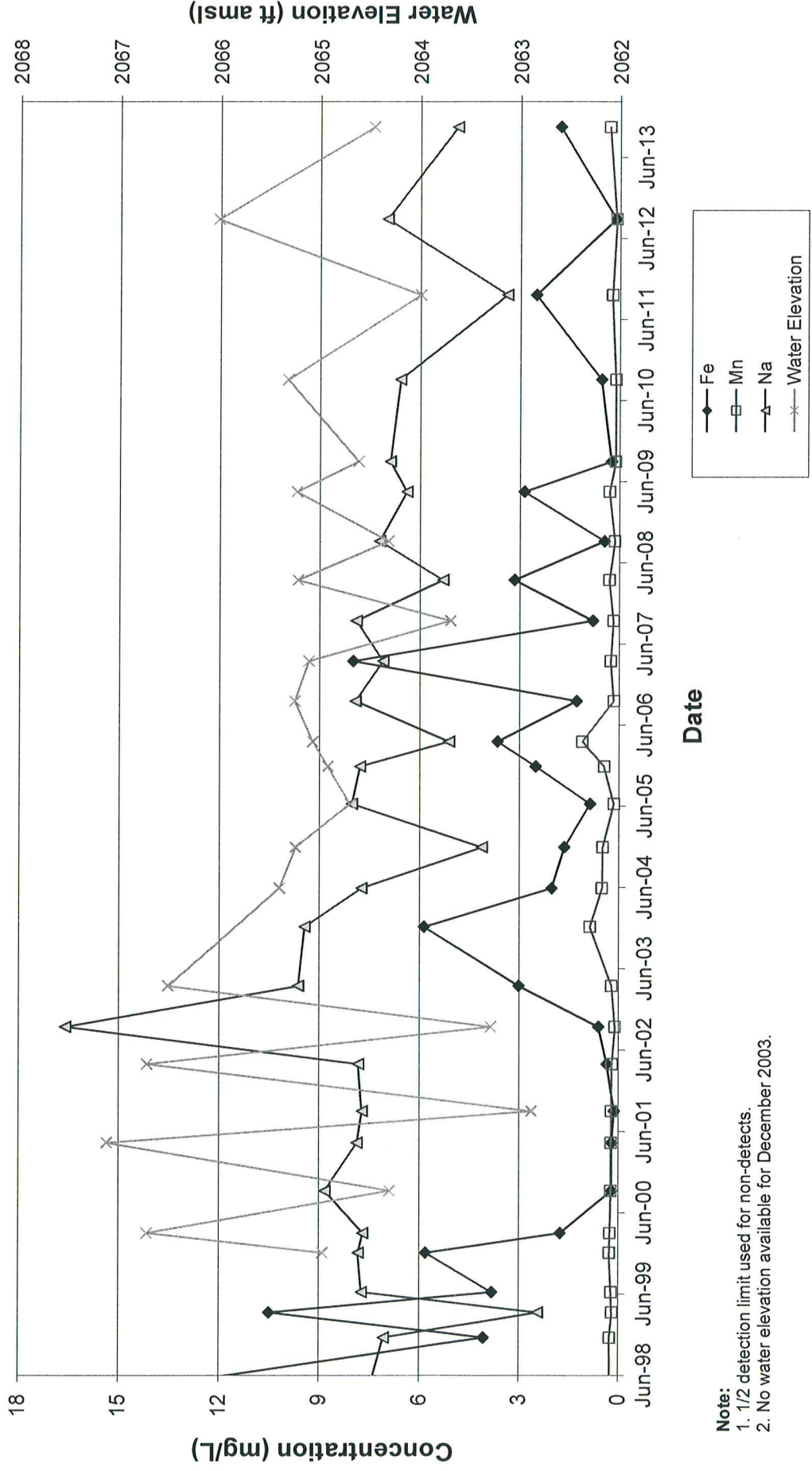
NOTE: 1/2 Detection limit used for non-detects

MW-5D Metals



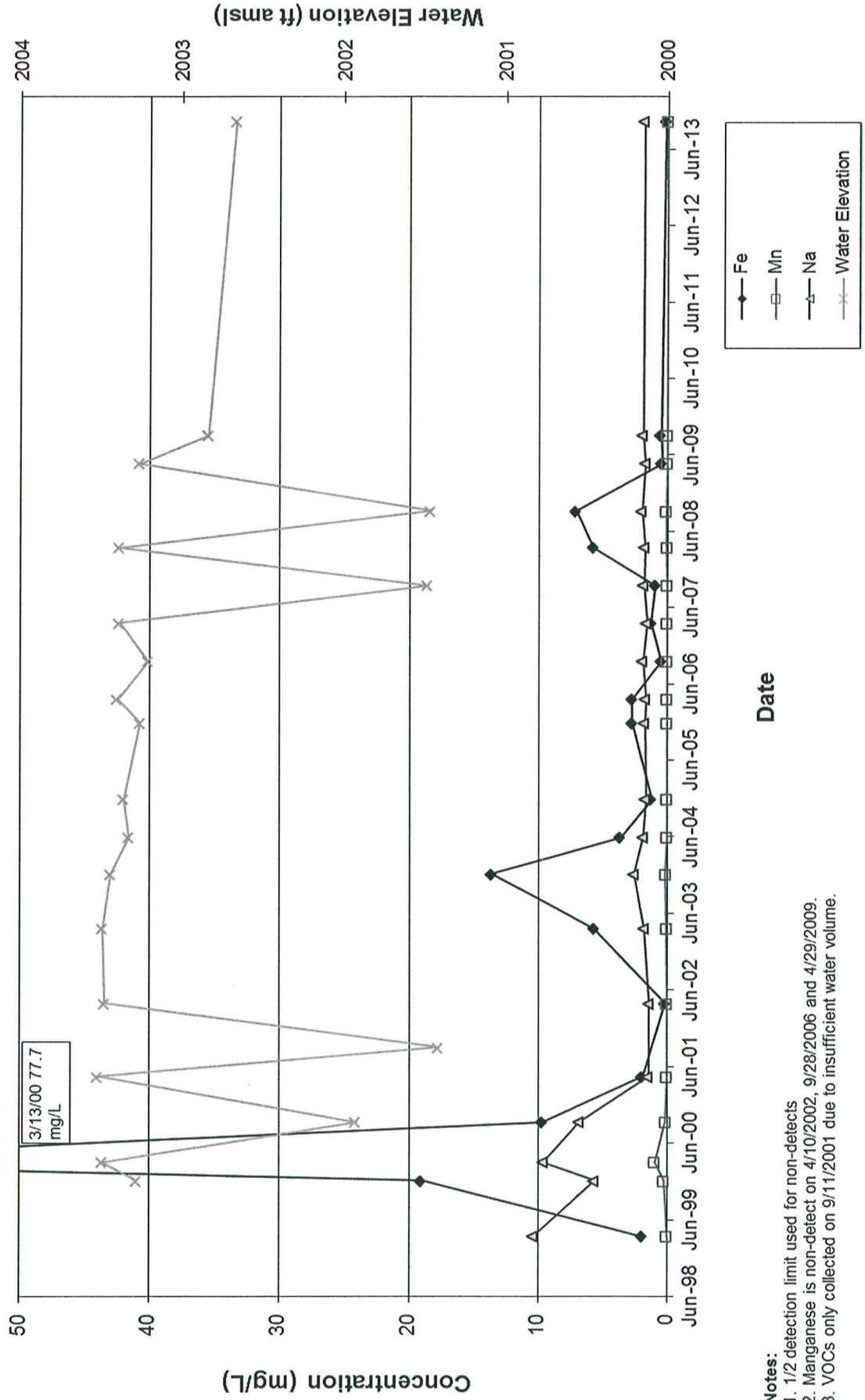
Notes:
 1. 1/2 Detection limit used for non-detects
 2. No water elevation available December 2003.

MW-5S Metals



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

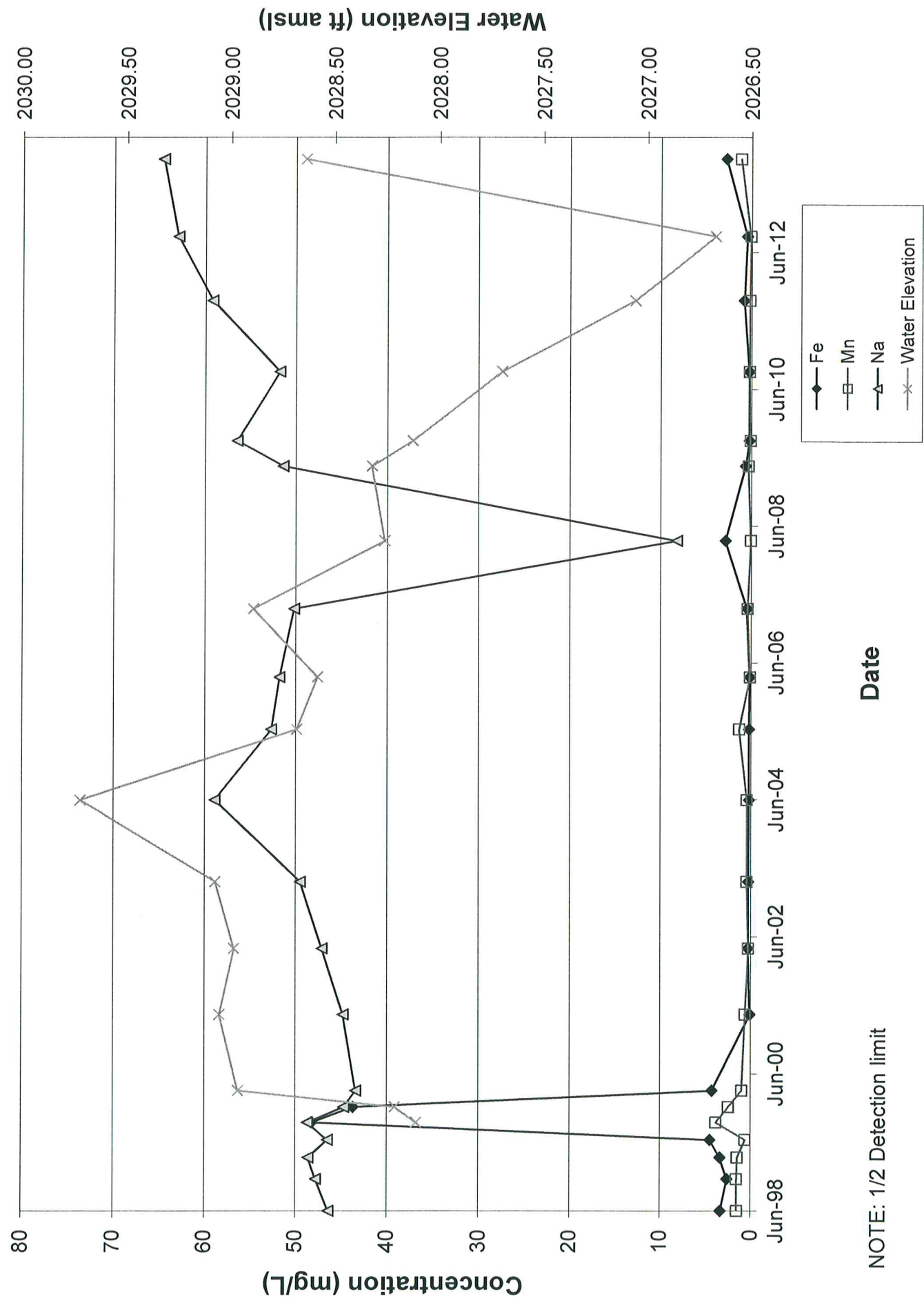
MW-15S Metals



Date

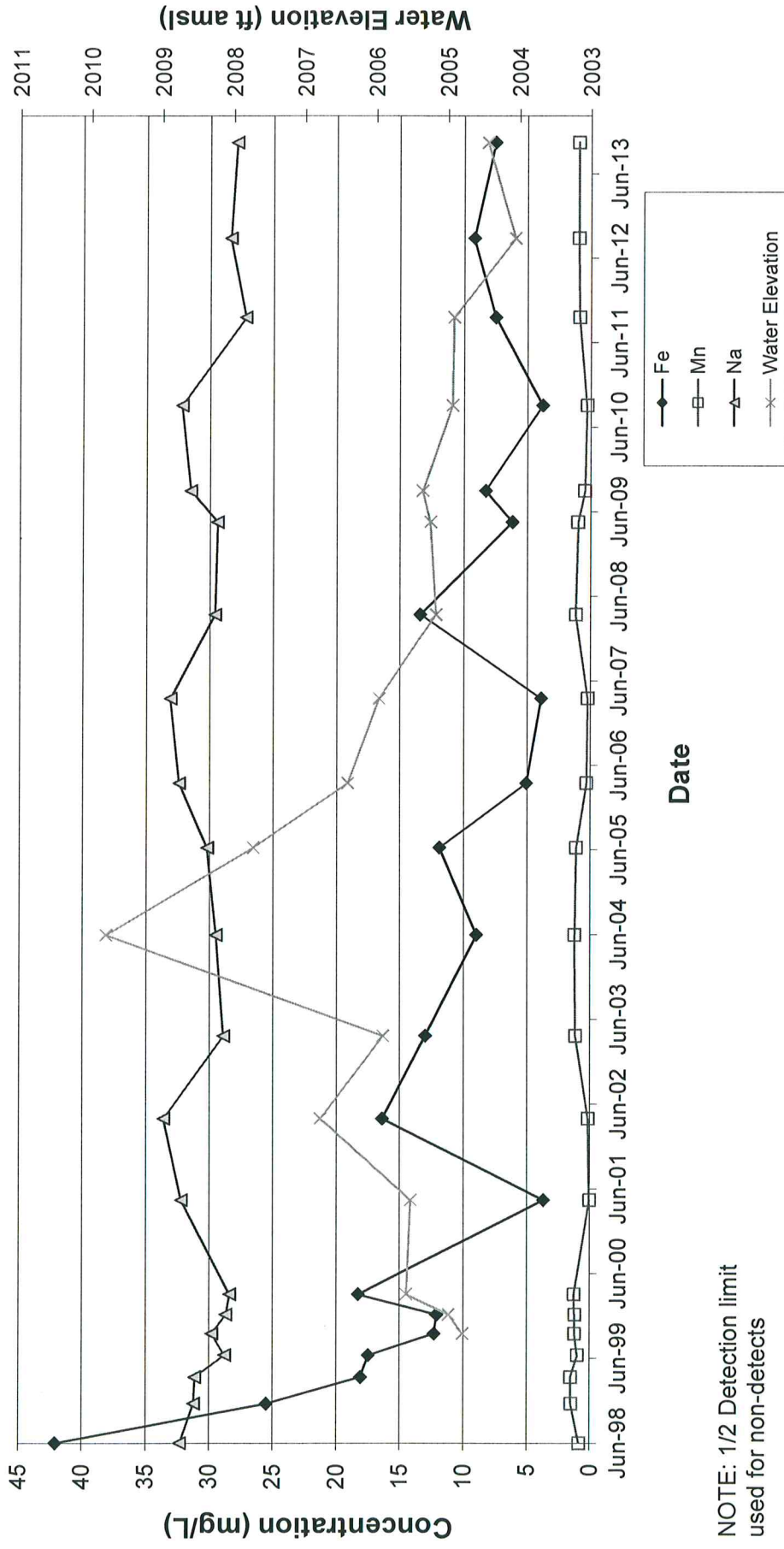
- Notes:
- 1/2 detection limit used for non-detects
 - Manganese is non-detect on 4/10/2002, 9/28/2006 and 4/29/2009.
 - VOCs only collected on 9/11/2001 due to insufficient water volume.

MW-17S Metals



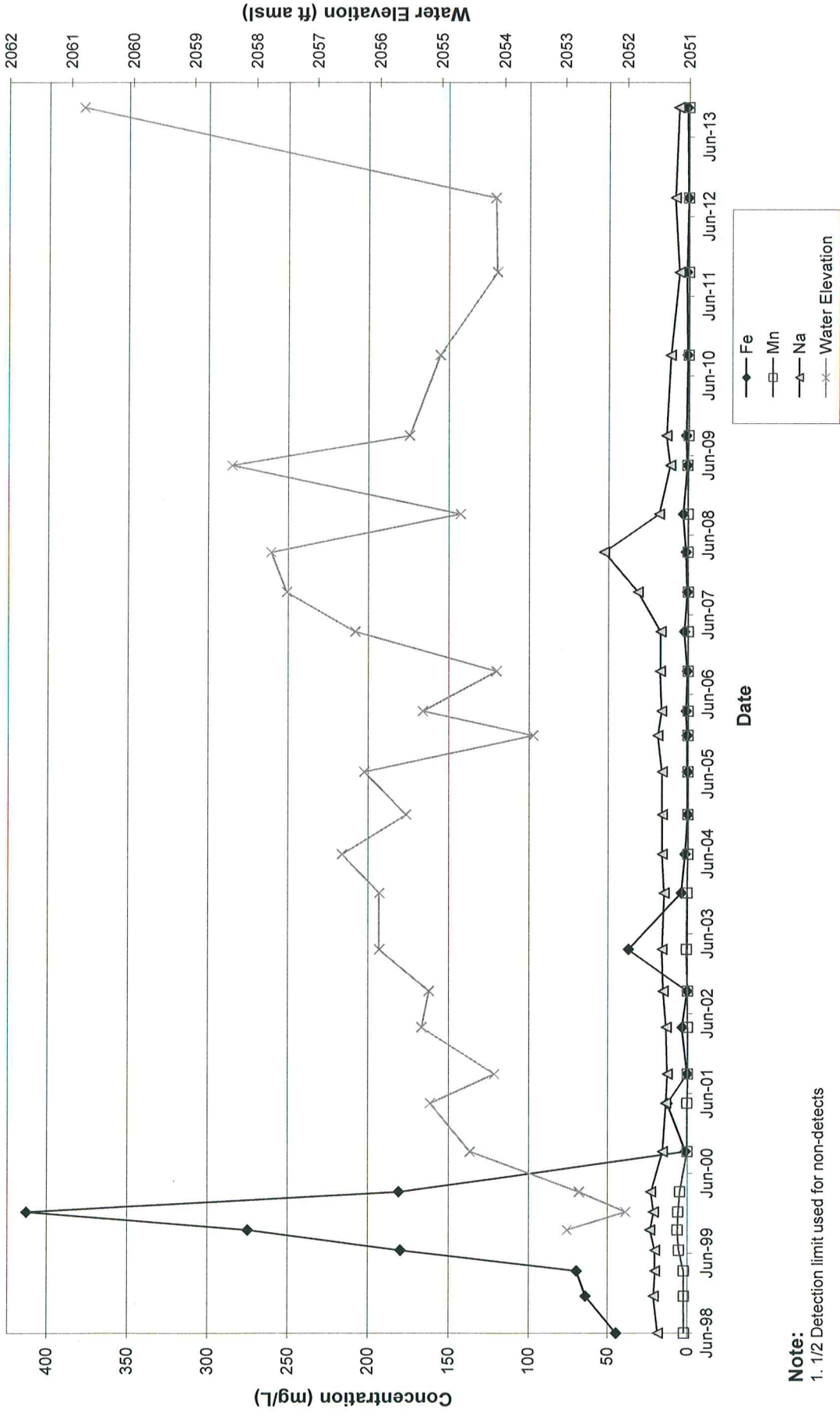
NOTE: 1/2 Detection limit

MW-17D Metals



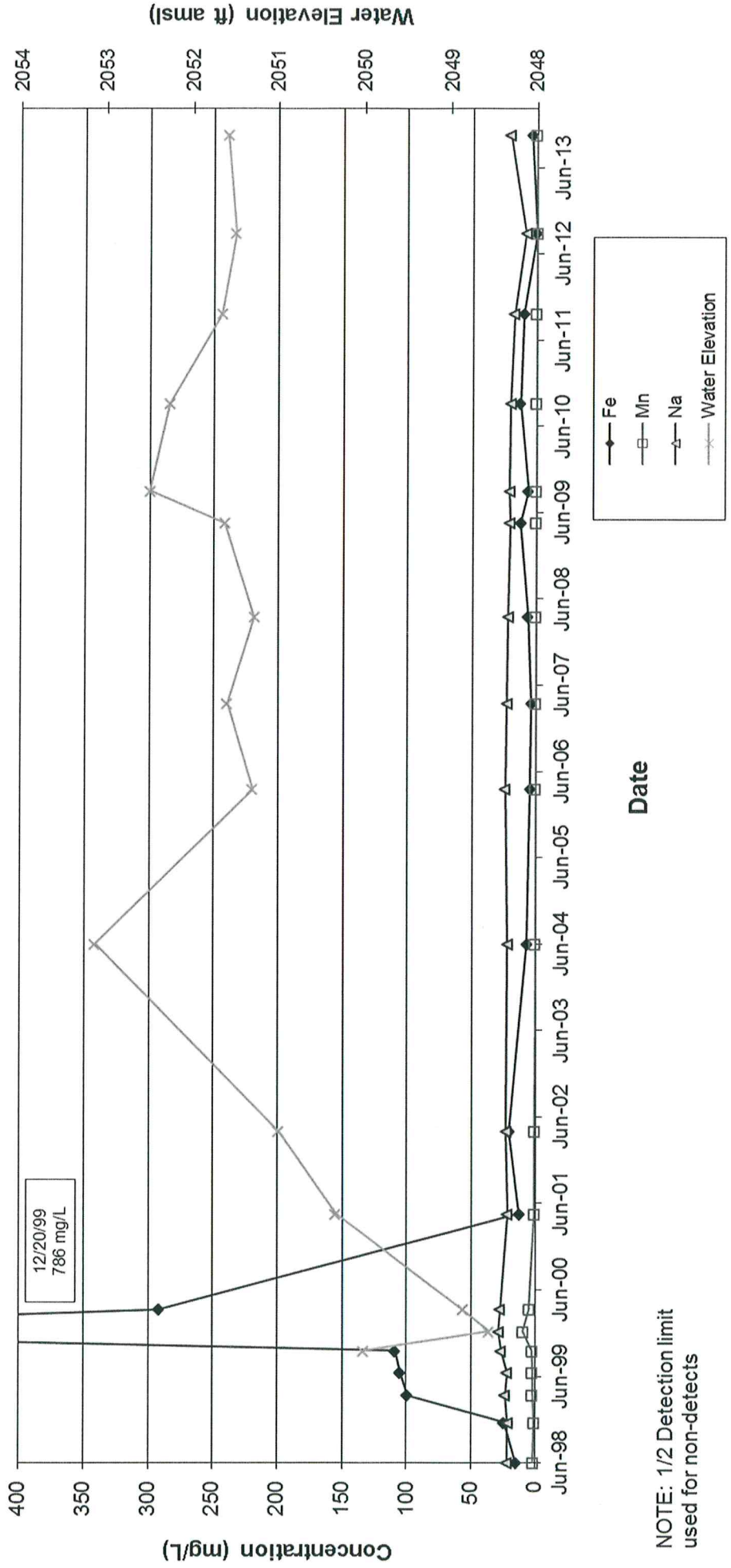
NOTE: 1/2 Detection limit used for non-detects

MW-18S Metals



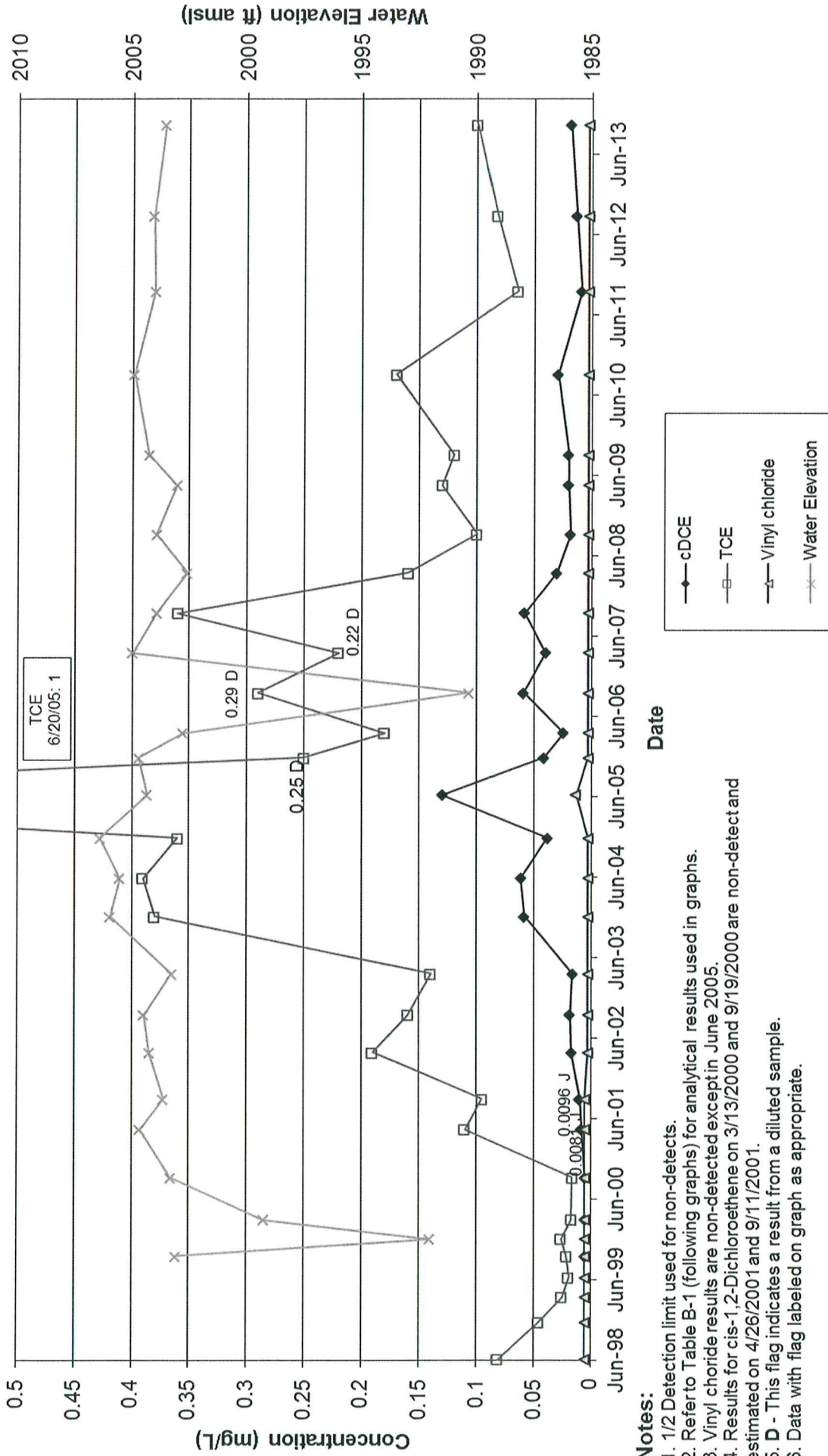
Note:
1. 1/2 Detection limit used for non-detects

MW-18D Metals



NOTE: 1/2 Detection limit used for non-detects

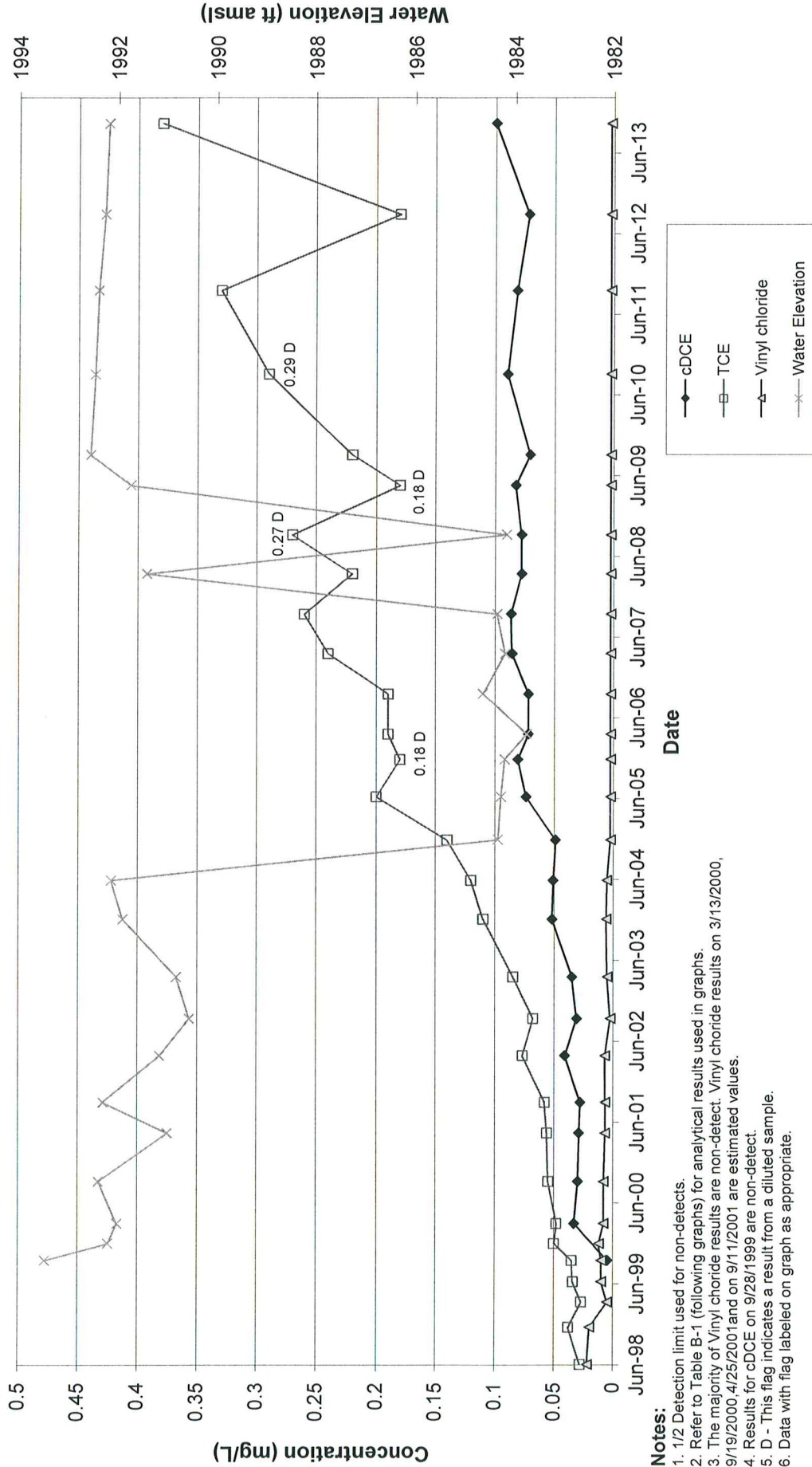
CW-3A VOCs



Notes:

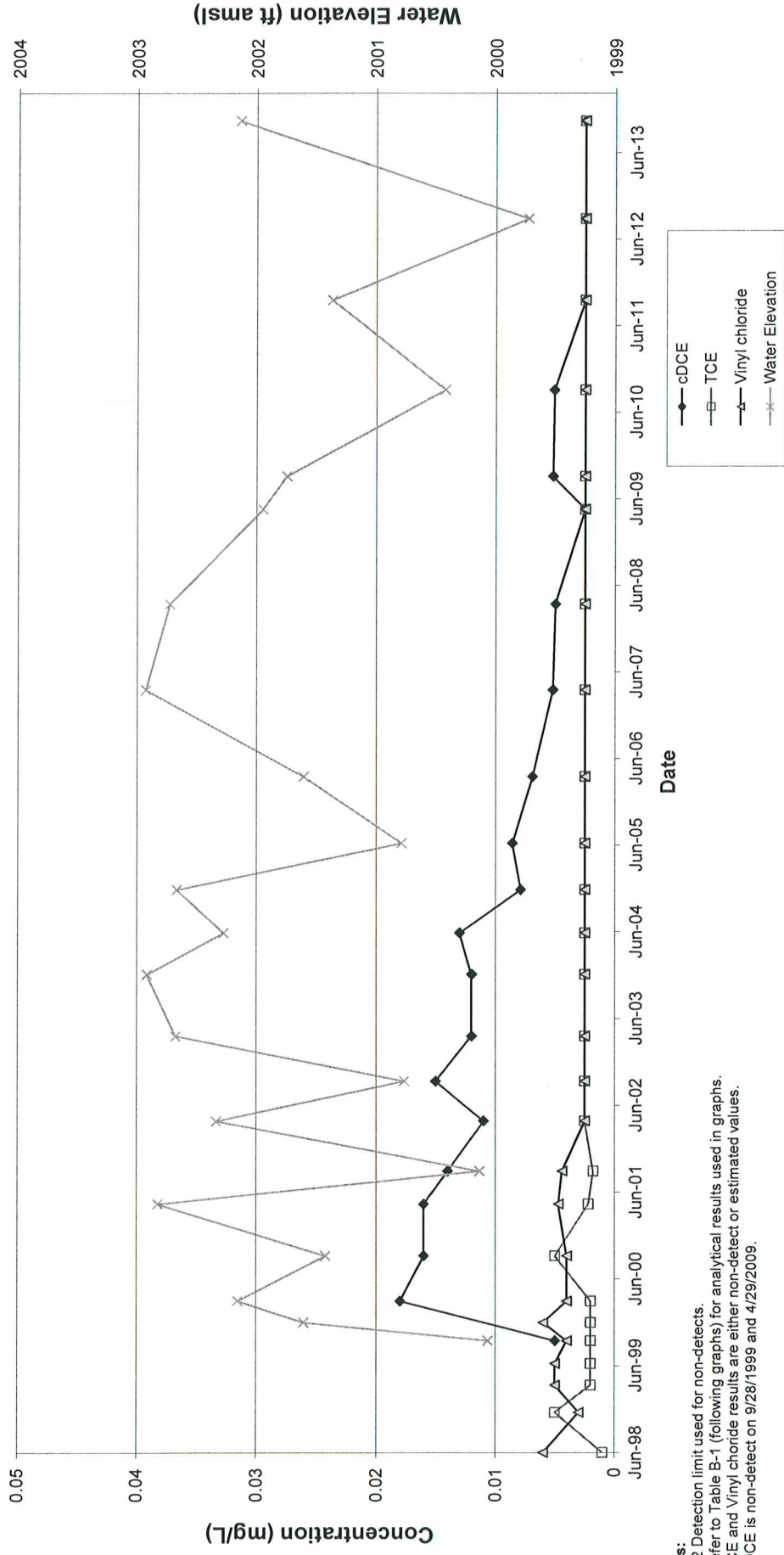
- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- Vinyl chloride results are non-detected except in June 2005.
- Results for cis-1,2-Dichloroethene on 3/13/2000 and 9/19/2000 are non-detect and estimated on 4/26/2001 and 9/11/2001.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

CW-3B VOCs



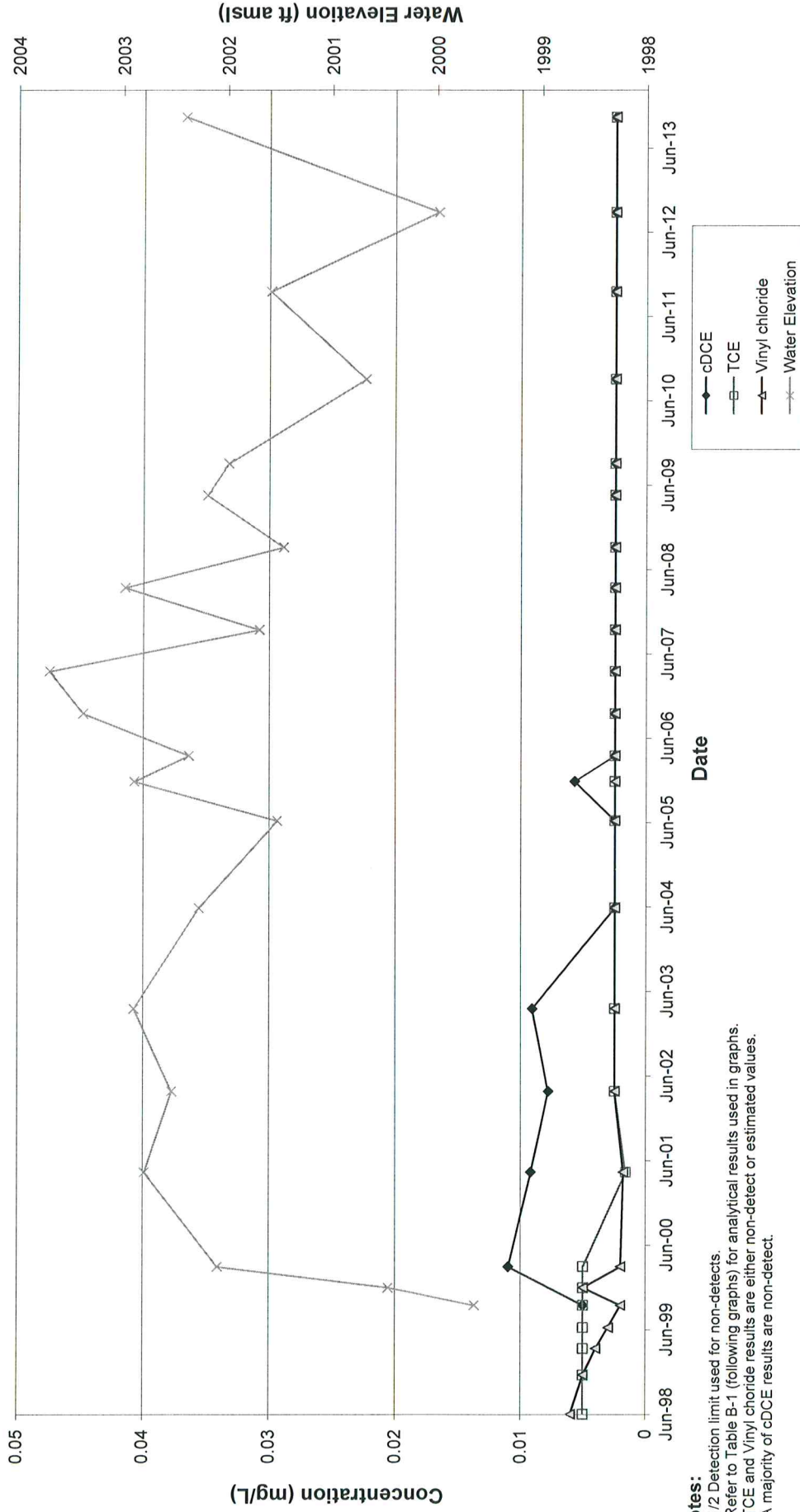
- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - The majority of Vinyl chloride results are non-detect. Vinyl chloride results on 3/13/2000, 9/19/2000, 4/25/2001 and on 9/1/2001 are estimated values.
 - Results for 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-4A VOCs



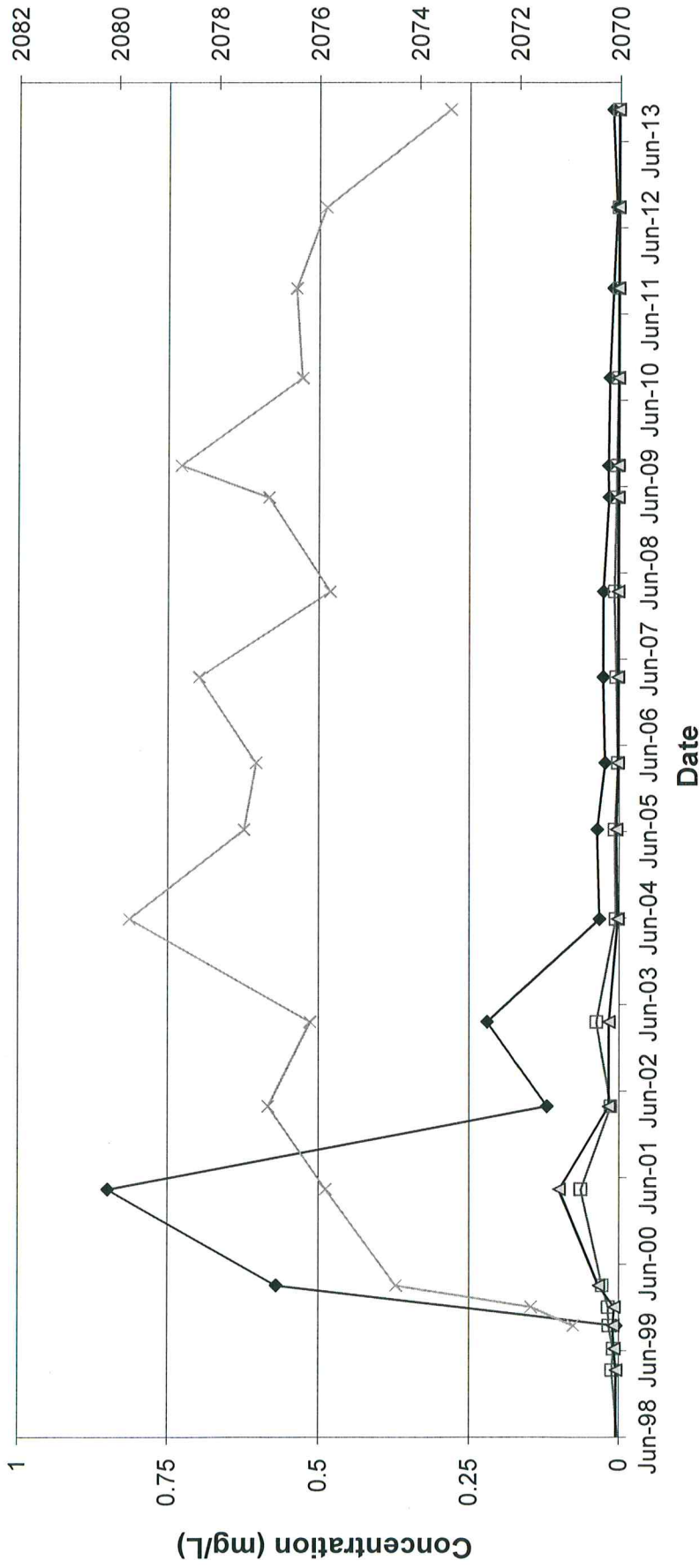
- Notes:**
1. 1/2 Detection limit used for non-detects.
 2. Refer to Table B-1 (following graphs) for analytical results used in graphs.
 3. TCE and Vinyl chloride results are either non-detect or estimated values.
 4. cDCE is non-detect on 9/28/1999 and 4/29/2009.

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.

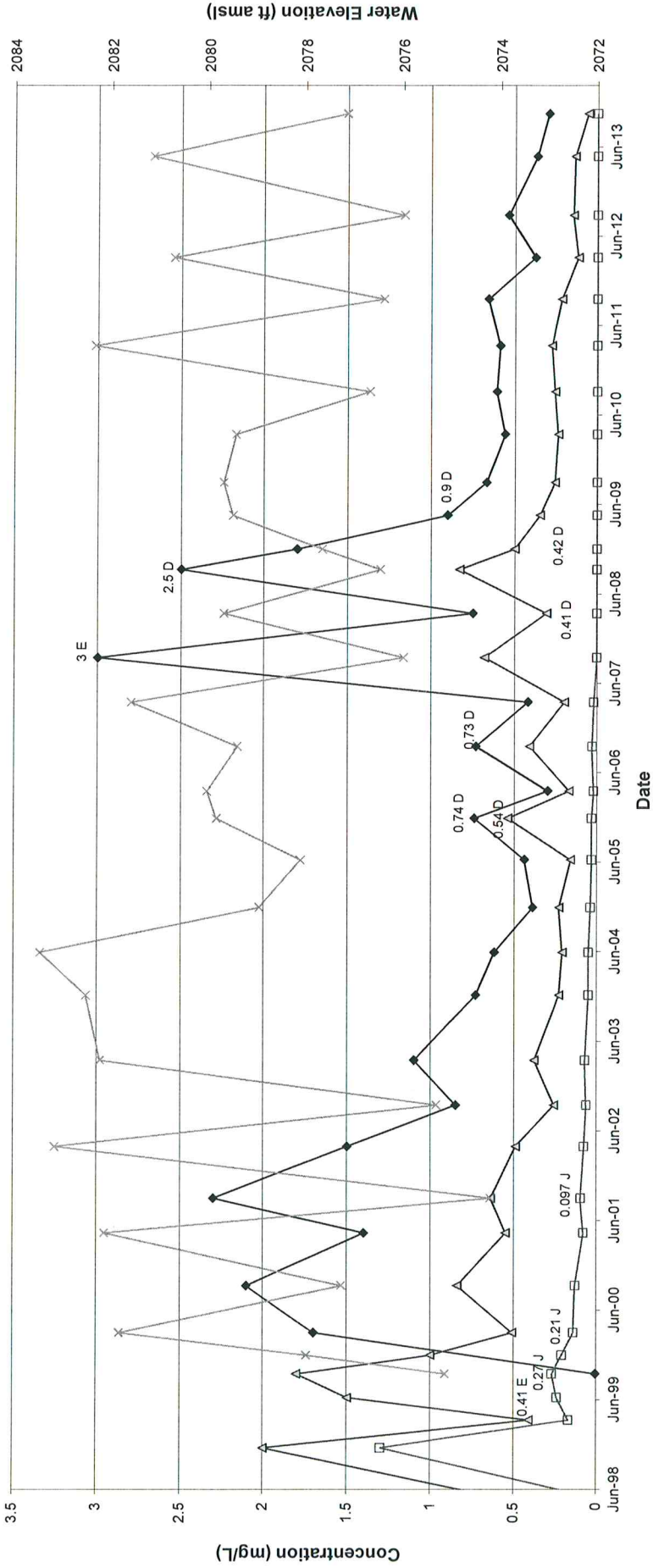
MW-3D VOCs



NOTE:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- TCE on 6/9/1998 is estimated value and non-detect on 3/30/2006.
- Vinyl chloride results on 6/9/1998, 3/24/1999, 6/9/2004, 3/30/2006, 3/29/2007, 3/25/2008 and 4/27/2009 are non-detect. Estimated results are shown on 6/23/1999 and 12/15/1999.
- Results for cDCE on 9/28/1999 are non-detect.

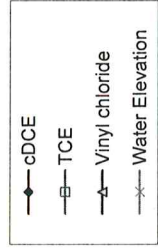
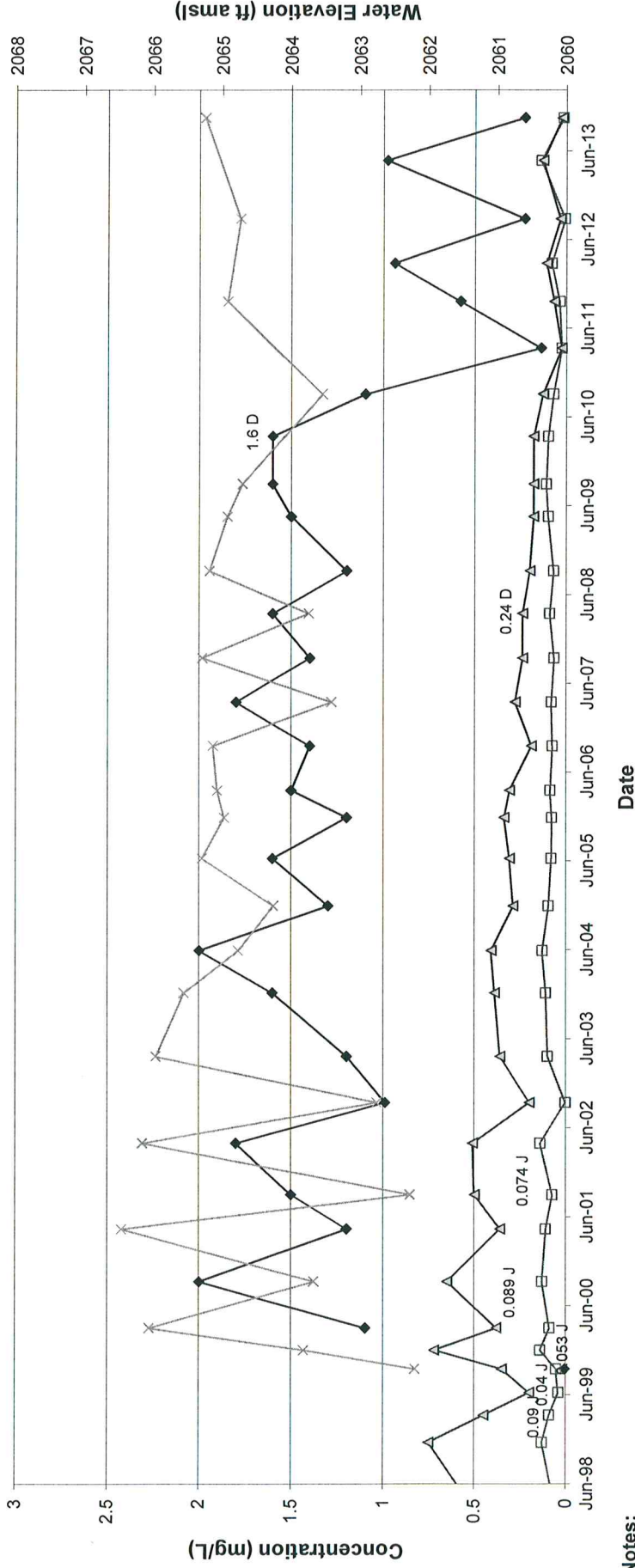
MW-4D VOCs



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, 3/24/2008, 9/16/2008, 12/11/2008 and 4/28/2009.
- Flagged data is labeled on the graph as appropriate.

MW-5D VOCs

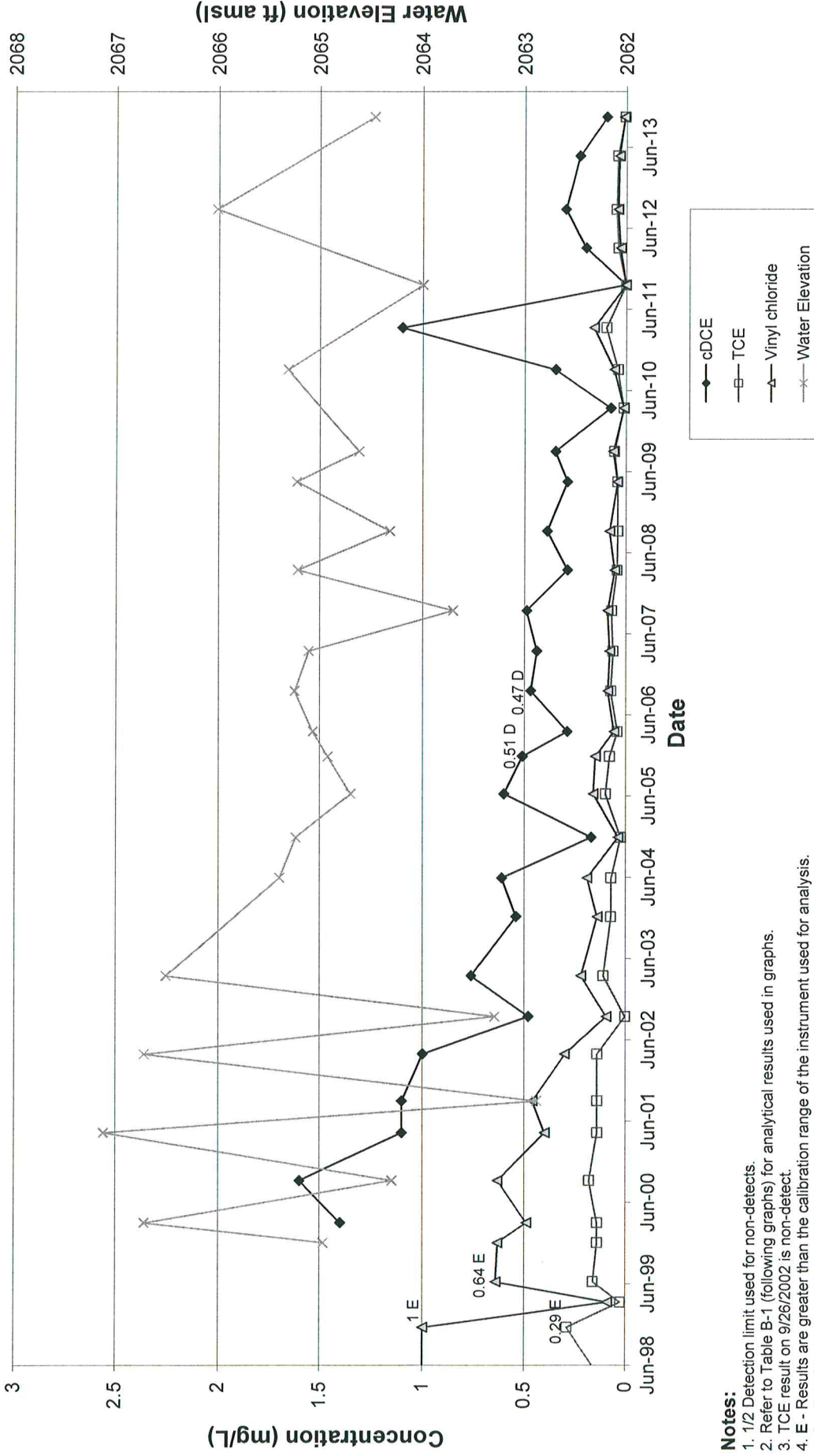


Date

Notes:

1. 1/2 Detection limit used for non-detects.
2. Refer to Table B-1 (following graphs) for analytical results used in graphs.
3. 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.
4. Result for cDCE on 9/28/1999 is non-detect.
5. J - Estimated values.
6. D - This flag indicates a result from a diluted sample.
7. Data with flag labeled on graph as appropriate.
8. No water elevation available December 2003.

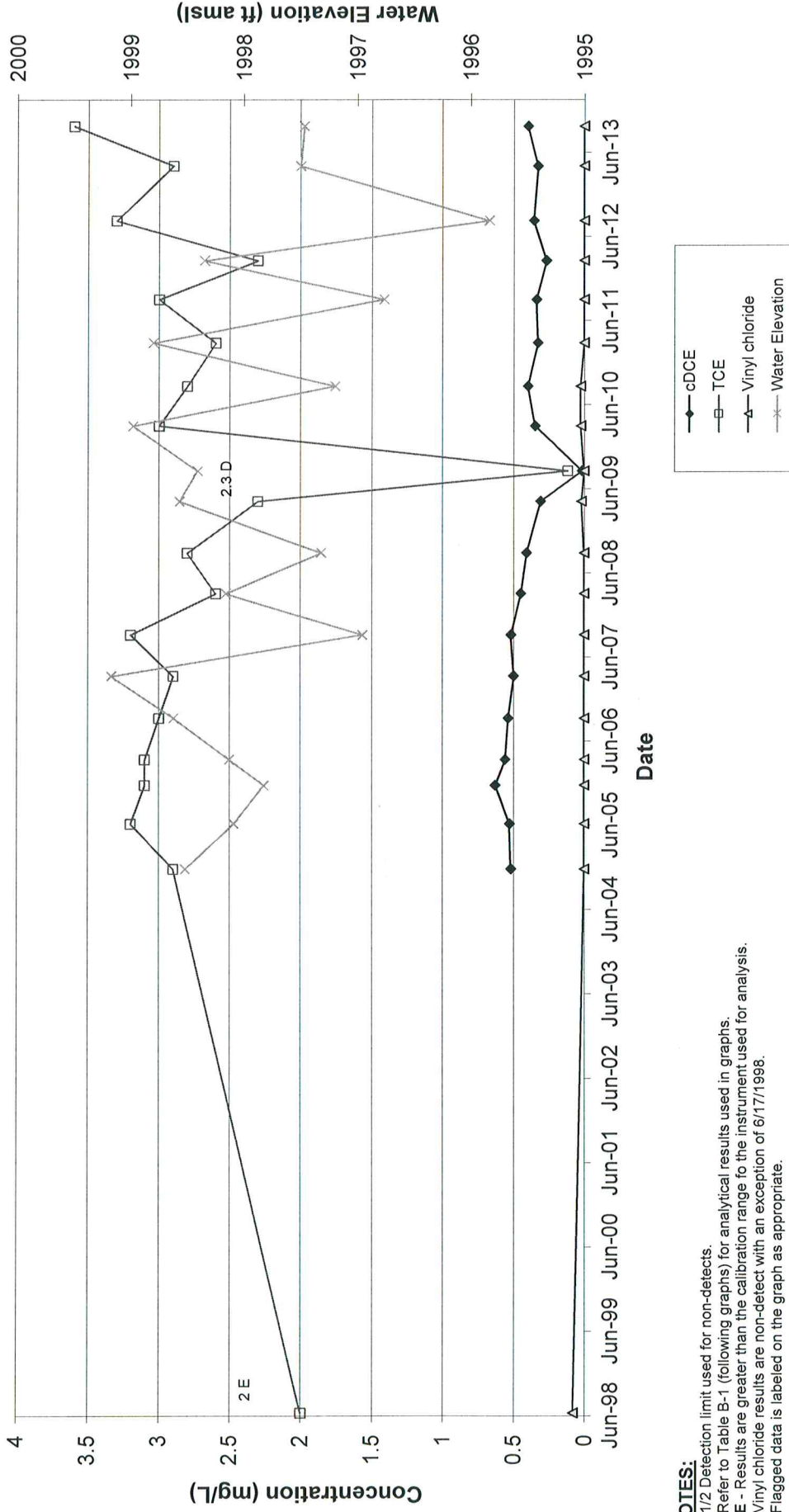
MW-5S VOCs



Notes:

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

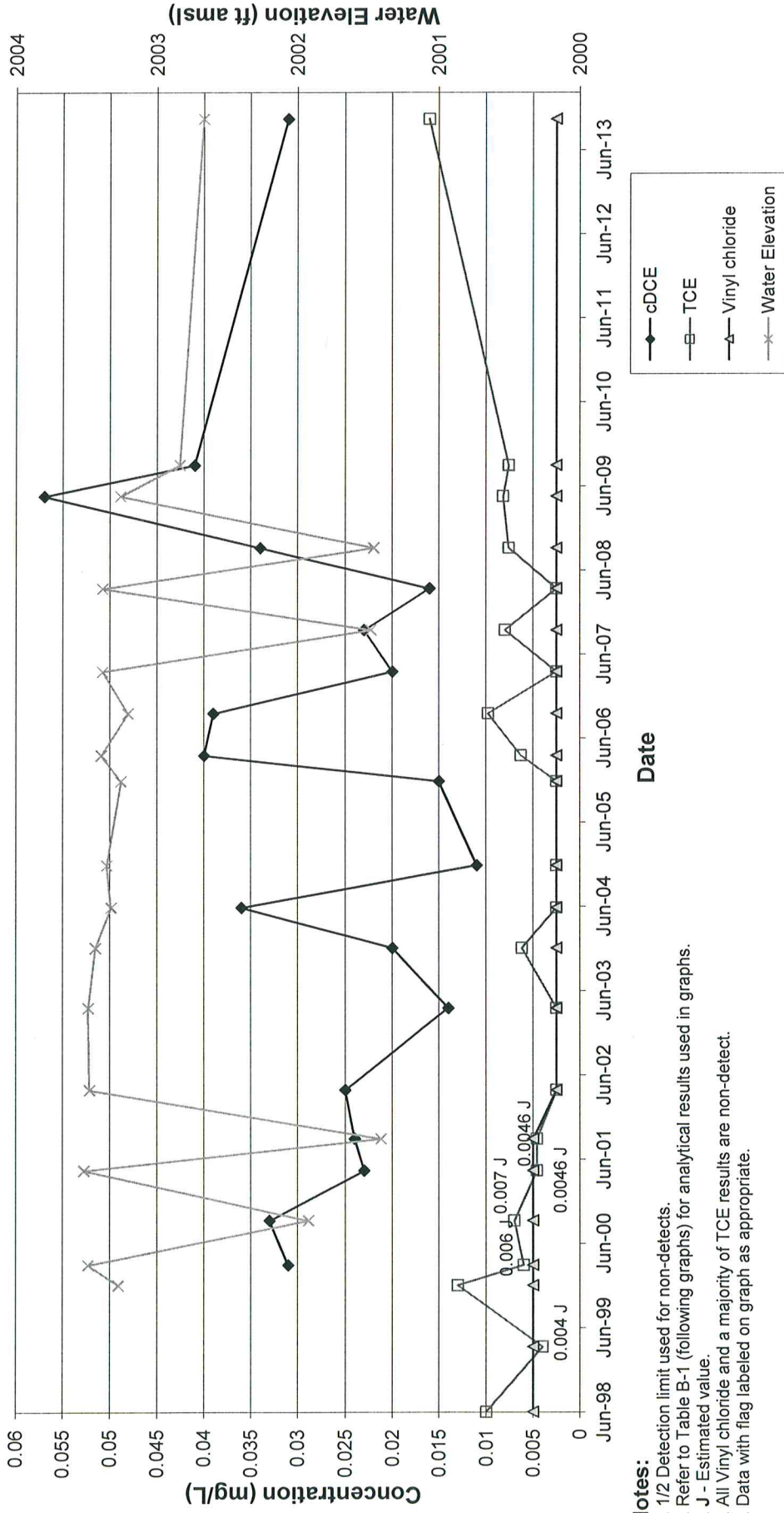
MW-11S VOCs



NOTES:

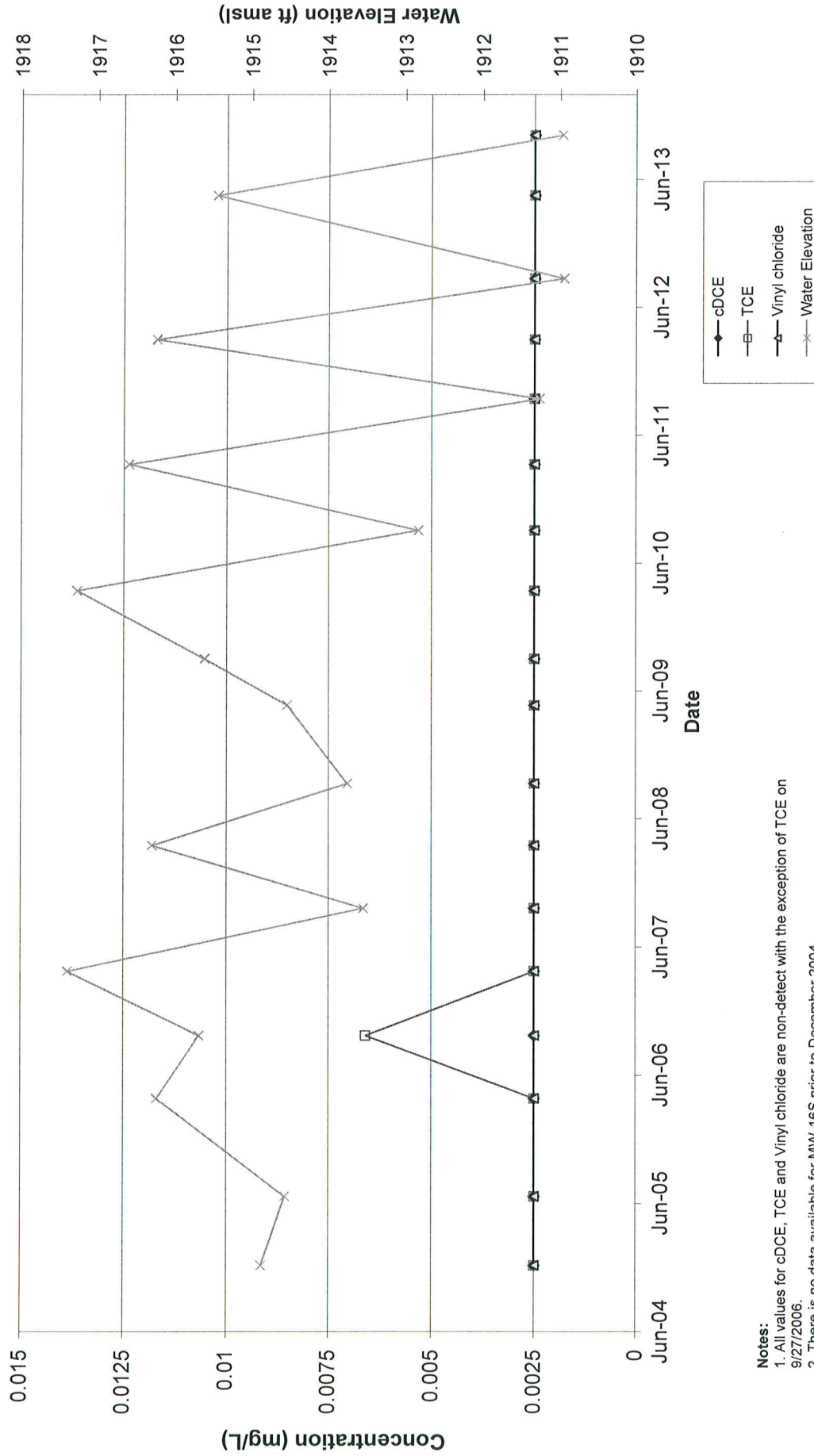
1. 1/2 Detection limit used for non-detects.
2. Refer to Table B-1 (following graphs) for analytical results used in graphs.
3. E - Results are greater than the calibration range for the instrument used for analysis.
4. Vinyl chloride results are non-detect with an exception of 6/17/1998.
5. Flagged data is labeled on the graph as appropriate.

MW-15S VOCs



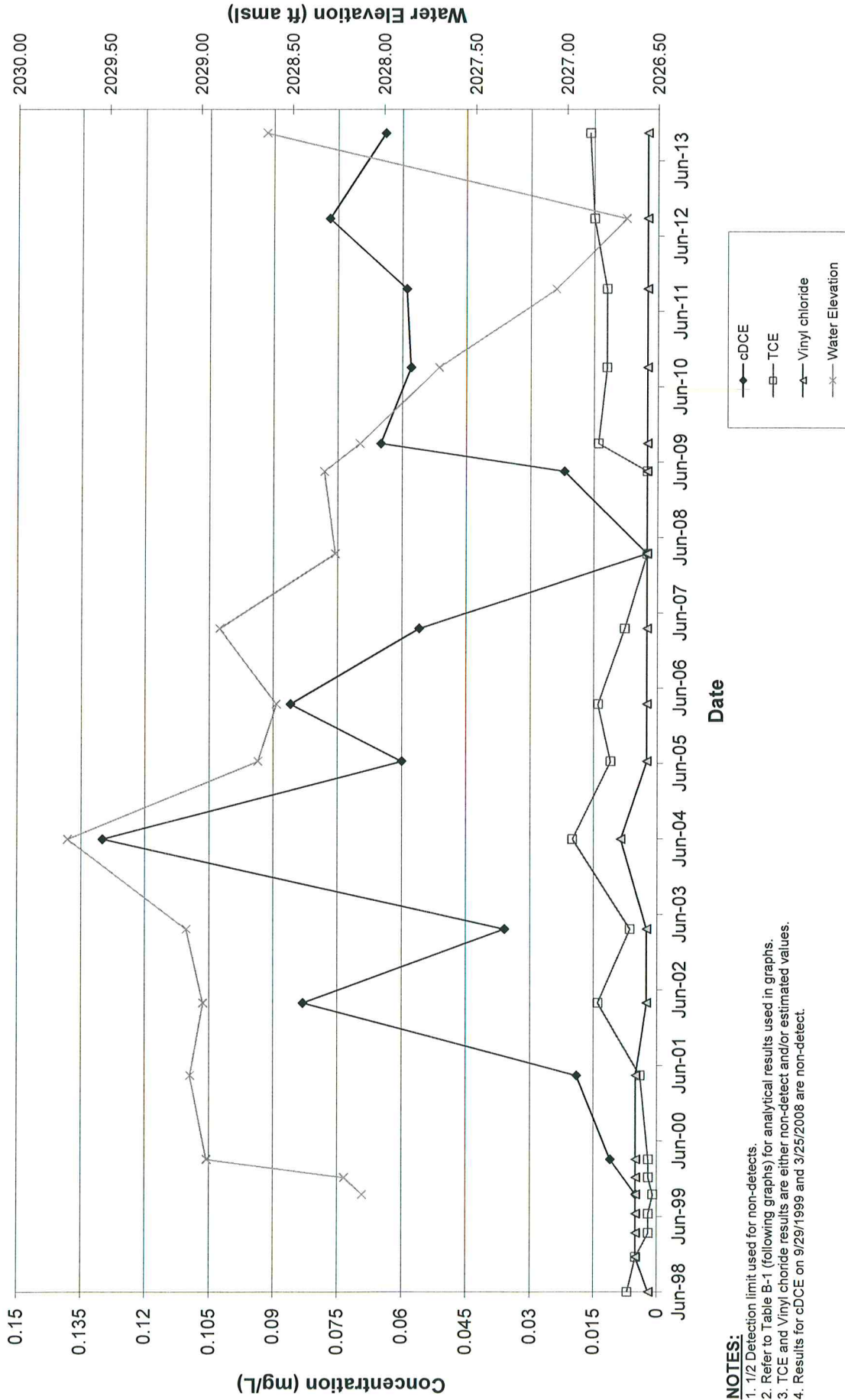
- Notes:**
- 1/2 Detection limit used for non-detects.
 - Refer to Table B-1 (following graphs) for analytical results used in graphs.
 - J - Estimated value.
 - All Vinyl chloride and a majority of TCE results are non-detect.
 - Data with flag labeled on graph as appropriate.

MW-16S VOCs



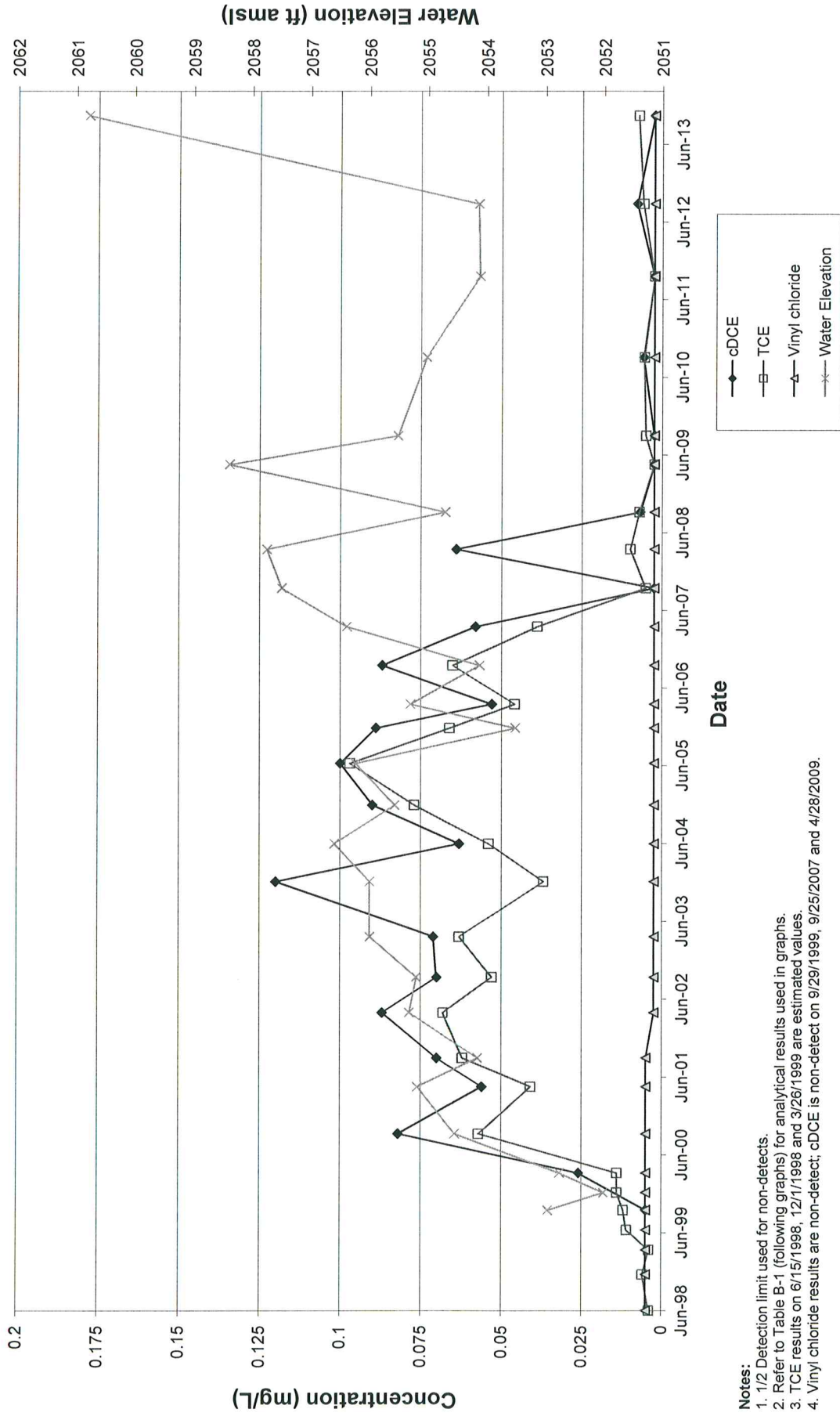
Notes:
 1. All values for cDCE, TCE and Vinyl chloride are non-detect with the exception of TCE on 9/27/2006.
 2. There is no data available for MW-16S prior to December 2004.

MW-17S VOCs



NOTES:
 1. 1/2 Detection limit used for non-detects.
 2. Refer to Table B-1 (following graphs) for analytical results used in graphs.
 3. TCE and Vinyl chloride results are either non-detect and/or estimated values.
 4. Results for cDCE on 9/29/1999 and 3/25/2008 are non-detect.

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, 9/25/2007 and 4/28/2009.

Table D-1

Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	6/9/1998	6/15/1998	6/17/1998	12/1/1998	12/2/1998	3/23/1999	3/24/1999	3/25/1999	3/26/1999	6/23/1999	6/24/1999	6/28/1999	9/28/1999
CW-3A	Iron				15.8									18.5
CW-3A	Manganese				0.306									0.371
CW-3A	Sodium				55.6									70
CW-3A	cis-1,2-Dichloroethene													0.01 U
CW-3A	Trichloroethene			0.081	0.046				0.025			0.019		0.021
CW-3A	Vinyl chloride			0.01 U	0.01 U				0.01 U			0.01 U		0.01 U
CW-3B	Iron			0 U	0 U				0.0857 B			3.8		0.149
CW-3B	Manganese			0.0396	0 U				0.0054 B			0.0262		0.01 U
CW-3B	Sodium			19.9	21				22.1			18.9		22.5
CW-3B	cis-1,2-Dichloroethene													0.01 U
CW-3B	Trichloroethene			0.028	0.038				0.027			0.034		0.035
CW-3B	Vinyl chloride			0.022	0.02				0.01 U			0.01		0.01
CW-4A	Iron		54.8		9.08				69.4			5.76		1.84
CW-4A	Manganese		3.82		2.11				2.56			1.7		2.02
CW-4A	Sodium		21.4		21				20.8			20		23.2
CW-4A	cis-1,2-Dichloroethene													0.01 U
CW-4A	Trichloroethene		0.001 J		0.01 U				0.002 J			0.002 J		0.002 J
CW-4A	Vinyl chloride		0.006 J		0.003 J				0.005 J			0.005 J		0.004 J
MW-3D	Iron	0.558						2.46				39.5		6.34
MW-3D	Manganese	0.0117						0.0592				0.622		0.125
MW-3D	Sodium	14						13				14.3		14.6
MW-3D	cis-1,2-Dichloroethene													0.01 U
MW-3D	Trichloroethene	0.002 J						0.012			0.01			0.017
MW-3D	Vinyl chloride	0.01 U						0.01 U			0.008 J			0.01
MW-3S	Iron							128				306		86.1
MW-3S	Manganese							2.75				19.9		3.46
MW-3S	Sodium							27.8				25.2		28.8
MW-3S	cis-1,2-Dichloroethene													0.01 U
MW-3S	Trichloroethene							0.01 U			0.01 U			0.01 U
MW-3S	Vinyl chloride							0.01 U			0.01 U			0.01 U
MW-4D	Iron	3.59			3.02			7.36				1.99		0.722
MW-4D	Manganese	0.426			0.985			1.1				0.978		1.47
MW-4D	Sodium	11.9			7.9			11.1				9.42		10.9
MW-4D	cis-1,2-Dichloroethene													0.01 U
MW-4D	Trichloroethene	0.19			1.3			0.17				0.24		0.27 J
MW-4D	Vinyl chloride	0.78			2			0.41 E				1.5		1.8
MW-5D	Iron	1.44			0.408		1.15					0.746		0.315
MW-5D	Manganese	1.24			1.3		1.18					1.2		1.03
MW-5D	Sodium	6.6			6.14		6.75					5.43		6.65
MW-5D	cis-1,2-Dichloroethene													0.01 U
MW-5D	Trichloroethene	0.083 J			0.13		0.09 J					0.04 J		0.053 J
MW-5D	Vinyl chloride	0.59			0.75		0.45					0.2		0.35
MW-5S	Iron	12			4.08			10.5				3.83		
MW-5S	Manganese	0.25			0.266			0.195				0.22		
MW-5S	Sodium	7.4			7.08			2.44 B				7.74		
MW-5S	cis-1,2-Dichloroethene													
MW-5S	Trichloroethene	0.16			0.29 E			0.026				0.16		
MW-5S	Vinyl chloride	1 E			1 E			0.09				0.64 E		
MW-11S	Iron			23.3										
MW-11S	Manganese			1.38										
MW-11S	Sodium			15.2										
MW-11S	cis-1,2-Dichloroethene													
MW-11S	Trichloroethene			2 E										
MW-11S	Vinyl chloride			0.084										
MW-16S	Iron			9.99										
MW-16S	Manganese			0.198										
MW-16S	Sodium			5.75										
MW-16S	cis-1,2-Dichloroethene													

Table D-1

Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	6/9/1998	6/15/1998	6/17/1998	12/1/1998	12/2/1998	3/23/1999	3/24/1999	3/25/1999	3/26/1999	6/23/1999	6/24/1999	6/28/1999	9/28/1999
MW-16S	Trichloroethene			0 U										
MW-16S	Vinyl chloride			0 U										
MW-17D	Iron		42.1			25.5				18.1			17.5	
MW-17D	Manganese		0.857			1.5				1.52			0.982	
MW-17D	Sodium		32.3			31.2				31.1			28.8	
MW-17D	cis-1,2-Dichloroethene													
MW-17D	Trichloroethene		0.01 U			0.01 U				0.01 U			0.01 U	
MW-17D	Vinyl chloride		0.01 U			0.01 U				0.01 U			0.01 U	
MW-17S	Iron		3.34		2.61					3.37			4.47	
MW-17S	Manganese		1.54		1.56					1.47			0.633	
MW-17S	Sodium		46.4		47.8					48.6			46.5	
MW-17S	cis-1,2-Dichloroethene													
MW-17S	Trichloroethene		0.007		0.01 U					0.002 J			0.002 J	
MW-17S	Vinyl chloride		0.002 J		0.01 U					0.01 U			0.01 U	
MW-18D	Iron		15.2			24.3				99.5			105	
MW-18D	Manganese		1.53			1.03				2.08			1.94	
MW-18D	Sodium		22.1			21.5				23.8			21.9	
MW-18D	cis-1,2-Dichloroethene													
MW-18D	Trichloroethene		0.01 U			0.01 U				0.01 U			0.01 U	
MW-18D	Vinyl chloride		0.01 U			0.01 U				0.01 U			0.01 U	
MW-18S	Iron		44.6		64					69.6			180	
MW-18S	Manganese		2.02		2.26					2.32			5.3	
MW-18S	Sodium		18.4		21.1					20.2			20.3	
MW-18S	cis-1,2-Dichloroethene													
MW-18S	Trichloroethene		0.004 J		0.006 J					0.004 J			0.011	
MW-18S	Vinyl chloride		0.01 U		0.01 U					0.01 U			0.01 U	

Table D-1

Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/29/1999	12/13/1999	12/14/1999	12/15/1999	12/16/1999	12/20/1999	3/13/2000	3/14/2000	3/15/2000	3/16/2000	3/21/2000	9/19/2000
CW-3A	Iron					7.29							3.07
CW-3A	Manganese					0.136							0.101
CW-3A	Sodium					71							71.7
CW-3A	cis-1,2-Dichloroethene							0.01 U					0.01 U
CW-3A	Trichloroethene					0.026		0.017					0.016
CW-3A	Vinyl chloride					0.01 U		0.01 U					0.01 U
CW-3B	Iron		0.568					0.196					18
CW-3B	Manganese		0.01 U					0.01 U					0.137
CW-3B	Sodium		22.8					19.7					24.3
CW-3B	cis-1,2-Dichloroethene							0.033					0.03
CW-3B	Trichloroethene		0.05					0.048					0.055
CW-3B	Vinyl chloride		0.012					0.008 J					0.008 J
CW-4A	Iron		0.258					1.32					0.164
CW-4A	Manganese		1.63					1.97					1.7
CW-4A	Sodium		21.3					20.8					20.6
CW-4A	cis-1,2-Dichloroethene							0.018					0.016
CW-4A	Trichloroethene		0.002 J					0.002 J					0.01 U
CW-4A	Vinyl chloride		0.006 J					0.004 J					0.004 J
MW-3D	Iron				28.1					2.25			
MW-3D	Manganese				0.371					0.0393			
MW-3D	Sodium				20.3					14.3			
MW-3D	cis-1,2-Dichloroethene									0.57			
MW-3D	Trichloroethene				0.018					0.028			
MW-3D	Vinyl chloride				0.008 J					0.034			
MW-3S	Iron				114					49.1			
MW-3S	Manganese				3.24					1.31			
MW-3S	Sodium				28.7					32.5			
MW-3S	cis-1,2-Dichloroethene									0.002 J			
MW-3S	Trichloroethene				0.01 U					0.01 U			
MW-3S	Vinyl chloride				0.01 U					0.01 U			
MW-4D	Iron		0.686					1.21					
MW-4D	Manganese		0.743					1.55					
MW-4D	Sodium		17.4					10					
MW-4D	cis-1,2-Dichloroethene							1.7					
MW-4D	Trichloroethene		0.21 J					0.14					
MW-4D	Vinyl chloride		1					0.51					
MW-5D	Iron			0.357				0.983					
MW-5D	Manganese			1.2				1.15					
MW-5D	Sodium			7.43				6.22					
MW-5D	cis-1,2-Dichloroethene							1.1					
MW-5D	Trichloroethene			0.14				0.089 J					
MW-5D	Vinyl chloride			0.72				0.38					
MW-5S	Iron					5.82		1.76					
MW-5S	Manganese					0.274		0.258					
MW-5S	Sodium					7.84		7.7					
MW-5S	cis-1,2-Dichloroethene							1.4					
MW-5S	Trichloroethene					0.14		0.14					
MW-5S	Vinyl chloride					0.63		0.49					
MW-11S	Iron												
MW-11S	Manganese												
MW-11S	Sodium												
MW-11S	cis-1,2-Dichloroethene												
MW-11S	Trichloroethene												
MW-11S	Vinyl chloride												
MW-16S	Iron												
MW-16S	Manganese												
MW-16S	Sodium												
MW-16S	cis-1,2-Dichloroethene												

Table D-1

Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/29/1999	12/13/1999	12/14/1999	12/15/1999	12/16/1999	12/20/1999	3/13/2000	3/14/2000	3/15/2000	3/16/2000	3/21/2000	9/19/2000
MW-16S	Trichloroethene												
MW-16S	Vinyl chloride												
MW-17D	Iron	12.3					12.1				18.3		
MW-17D	Manganese	1.21					1.2				1.27		
MW-17D	Sodium	29.8					28.7				28.4		
MW-17D	cis-1,2-Dichloroethene	0.01 U									0.01 U		
MW-17D	Trichloroethene	0.01 U					0.01 U				0.01 U		
MW-17D	Vinyl chloride	0.01 U					0.01 U				0.01 U		
MW-17S	Iron	48.2					43.7				4.29		
MW-17S	Manganese	3.82					2.46				1.01		
MW-17S	Sodium	48.7					44.7				43.4		
MW-17S	cis-1,2-Dichloroethene	0.01 U									0.011		
MW-17S	Trichloroethene	0.001 J					0.002 J				0.002 J		
MW-17S	Vinyl chloride	0.01 U					0.01 U				0.01 U		
MW-18D	Iron	109					786					292	
MW-18D	Manganese	2.64					9.77					4.8	
MW-18D	Sodium	27					28.9					27.5	
MW-18D	cis-1,2-Dichloroethene	0.01 U										0.01 U	
MW-18D	Trichloroethene	0.01 U					0.01 U					0.01 U	
MW-18D	Vinyl chloride	0.01 U					0.01 U					0.01 U	
MW-18S	Iron	275					413					181	
MW-18S	Manganese	6.29					5.83					4.78	
MW-18S	Sodium	23.4					21.1					22.9	
MW-18S	cis-1,2-Dichloroethene	0.01 U										0.026	
MW-18S	Trichloroethene	0.012					0.014					0.014	
MW-18S	Vinyl chloride	0.01 U					0.01 U					0.01 U	

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/20/2000	9/21/2000	4/23/2001	4/24/2001	4/25/2001	4/26/2001	4/30/2001	9/10/2001	9/11/2001	9/12/2001	4/9/2002	4/10/2002	4/11/2002
CW-3A	Iron						0.172			0.1 U			0.1 U	
CW-3A	Manganese						0.01 U			0.01 U			0.01 U	
CW-3A	Sodium						32.2			51.1			29.1	
CW-3A	cis-1,2-Dichloroethene						0.0081 J			0.0096 J			0.017	
CW-3A	Trichloroethene						0.11			0.095			0.19	
CW-3A	Vinyl chloride						0.01 U			0.01 U			0.005 U	
CW-3B	Iron						0.1 U			0.357		0.869		
CW-3B	Manganese						0.0122			0.01 U		0.0102		
CW-3B	Sodium						21			20		20.9		
CW-3B	cis-1,2-Dichloroethene						0.029			0.028		0.041		
CW-3B	Trichloroethene						0.056			0.058		0.077		
CW-3B	Vinyl chloride						0.007 J			0.0068 J		0.0071		
CW-4A	Iron						0.821		0.142			0.122		
CW-4A	Manganese						1.97		1.75			0.735		
CW-4A	Sodium						21.1		18.7			20.2		
CW-4A	cis-1,2-Dichloroethene						0.016		0.014			0.011		
CW-4A	Trichloroethene						0.0022 J		0.0018 J			0.005 U		
CW-4A	Vinyl chloride						0.0047 J		0.0044 J			0.005 U		
MW-3D	Iron						0.23							0.178
MW-3D	Manganese						0.05							0.0486
MW-3D	Sodium						12.5							14.2
MW-3D	cis-1,2-Dichloroethene						0.85							0.12
MW-3D	Trichloroethene						0.064							0.014
MW-3D	Vinyl chloride						0.1							0.017
MW-3S	Iron					3.06							0.487	
MW-3S	Manganese					0.0876							0.0159	
MW-3S	Sodium					26.8							28.1	
MW-3S	cis-1,2-Dichloroethene					0.0061 J							0.005 U	
MW-3S	Trichloroethene					0.0019 J							0.0071	
MW-3S	Vinyl chloride					0.01 U							0.005 U	
MW-4D	Iron		0.657		0.489						0.33			0.558
MW-4D	Manganese		1.68		1.1						1.52			1.15
MW-4D	Sodium		9.89		9.8						9.83			9.76
MW-4D	cis-1,2-Dichloroethene		2.1		1.4						2.3			1.5
MW-4D	Trichloroethene		0.13		0.08						0.097 J			0.077
MW-4D	Vinyl chloride		0.84		0.55						0.64			0.49
MW-5D	Iron	0.418			0.365						0.411			0.631
MW-5D	Manganese	1.17			1.28						1.23			1.28
MW-5D	Sodium	7			6.5						5.56			6.29
MW-5D	cis-1,2-Dichloroethene	2			1.2						1.5			1.8
MW-5D	Trichloroethene	0.13			0.11						0.074 J			0.14
MW-5D	Vinyl chloride	0.65			0.36						0.5			0.51
MW-5S	Iron	0.206		0.212							0.136			0.351
MW-5S	Manganese	0.229		0.227							0.22			0.203
MW-5S	Sodium	8.83		7.88							7.73			7.84
MW-5S	cis-1,2-Dichloroethene	1.6		1.1							1.1			1
MW-5S	Trichloroethene	0.18		0.14							0.14			0.14
MW-5S	Vinyl chloride	0.63		0.4							0.46			0.3
MW-11S	Iron													
MW-11S	Manganese													
MW-11S	Sodium													
MW-11S	cis-1,2-Dichloroethene													
MW-11S	Trichloroethene													
MW-11S	Vinyl chloride													
MW-16S	Iron													
MW-16S	Manganese													
MW-16S	Sodium													
MW-16S	cis-1,2-Dichloroethene													

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/20/2000	9/21/2000	4/23/2001	4/24/2001	4/25/2001	4/26/2001	4/30/2001	9/10/2001	9/11/2001	9/12/2001	4/9/2002	4/10/2002	4/11/2002
MW-16S	Trichloroethene													
MW-16S	Vinyl chloride													
MW-17D	Iron						3.7							
MW-17D	Manganese						0.0466							
MW-17D	Sodium						32.2							
MW-17D	cis-1,2-Dichloroethene						0.01 U							
MW-17D	Trichloroethene						0.01 U							
MW-17D	Vinyl chloride						0.01 U							
MW-17S	Iron						0.11							
MW-17S	Manganese						0.642							
MW-17S	Sodium						44.8							
MW-17S	cis-1,2-Dichloroethene						0.019							
MW-17S	Trichloroethene						0.004 J							
MW-17S	Vinyl chloride						0.01 U							
MW-18D	Iron							12.8						
MW-18D	Manganese							0.952						
MW-18D	Sodium							22						
MW-18D	cis-1,2-Dichloroethene							0.01 U						
MW-18D	Trichloroethene							0.01 U						
MW-18D	Vinyl chloride							0.01 U						
MW-18S	Iron		1.29					12.7		0.264				
MW-18S	Manganese		0.301					0.32		0.0218				
MW-18S	Sodium		15.6					13.6		12.6				
MW-18S	cis-1,2-Dichloroethene		0.082					0.056		0.07				
MW-18S	Trichloroethene		0.057					0.041		0.062				
MW-18S	Vinyl chloride		0.01 U					0.01 U		0.01 U				

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	4/12/2002	9/24/2002	9/25/2002	9/26/2002	3/28/2003	3/31/2003	4/1/2003	4/2/2003	4/3/2003	12/16/2003	12/17/2003	12/18/2003
CW-3A	Iron			0.445				1.06			0.1 U		
CW-3A	Manganese			0.114				0.0392			0.0124		
CW-3A	Sodium			44.1				45.6			50.1		
CW-3A	cis-1,2-Dichloroethene			0.018				0.016			0.058		
CW-3A	Trichloroethene			0.16				0.14			0.38		
CW-3A	Vinyl chloride			0.005 U				0.005 U			0.005 U		
CW-3B	Iron		1.02				0.447				0.1 U		
CW-3B	Manganese		0.0176				0.015				0.0192		
CW-3B	Sodium		23.8				23.5				21		
CW-3B	cis-1,2-Dichloroethene		0.031				0.035				0.052		
CW-3B	Trichloroethene		0.068				0.085				0.11		
CW-3B	Vinyl chloride		0.005 U				0.0051				0.006		
CW-4A	Iron		15.3					2.37			0.1 U		
CW-4A	Manganese		9.92					2.41			1.03		
CW-4A	Sodium		25.4					21.9			19.6		
CW-4A	cis-1,2-Dichloroethene		0.015					0.012			0.012		
CW-4A	Trichloroethene		0.005 U					0.005 U			0.005 U		
CW-4A	Vinyl chloride		0.005 U					0.005 U			0.005 U		
MW-3D	Iron									0.1 U			
MW-3D	Manganese									0.0244			
MW-3D	Sodium									14.9			
MW-3D	cis-1,2-Dichloroethene									0.22			
MW-3D	Trichloroethene									0.038			
MW-3D	Vinyl chloride									0.017			
MW-3S	Iron									125			
MW-3S	Manganese									3.26			
MW-3S	Sodium									29.4			
MW-3S	cis-1,2-Dichloroethene									0.005 U			
MW-3S	Trichloroethene									0.005 U			
MW-3S	Vinyl chloride									0.005 U			
MW-4D	Iron				0.169	0.314							0.36
MW-4D	Manganese				1.11	0.934							0.946
MW-4D	Sodium				10.2	10.5							10.8
MW-4D	cis-1,2-Dichloroethene				0.85	1.1							0.73
MW-4D	Trichloroethene				0.063	0.071							0.051
MW-4D	Vinyl chloride				0.26	0.38							0.23
MW-5D	Iron			0.478						0.391			0.391
MW-5D	Manganese			0.726						1.16			1.39
MW-5D	Sodium			6.6						6.56			7.52
MW-5D	cis-1,2-Dichloroethene			0.99						1.2			1.6
MW-5D	Trichloroethene			0.005 U						0.1			0.11
MW-5D	Vinyl chloride			0.2						0.36			0.39
MW-5S	Iron				0.606	3.02							5.87
MW-5S	Manganese				0.114	0.213							0.864
MW-5S	Sodium				16.6	9.63							9.44
MW-5S	cis-1,2-Dichloroethene				0.48	0.76							0.54
MW-5S	Trichloroethene				0.005 U	0.11							0.073
MW-5S	Vinyl chloride				0.095	0.22							0.14
MW-11S	Iron												
MW-11S	Manganese												
MW-11S	Sodium												
MW-11S	cis-1,2-Dichloroethene												
MW-11S	Trichloroethene												
MW-11S	Vinyl chloride												
MW-16S	Iron												
MW-16S	Manganese												
MW-16S	Sodium												
MW-16S	cis-1,2-Dichloroethene												

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	4/12/2002	9/24/2002	9/25/2002	9/26/2002	3/28/2003	3/31/2003	4/1/2003	4/2/2003	4/3/2003	12/16/2003	12/17/2003	12/18/2003
MW-16S	Trichloroethene												
MW-16S	Vinyl chloride												
MW-17D	Iron	16.4								13			
MW-17D	Manganese	0.166								1.17			
MW-17D	Sodium	33.6								28.9			
MW-17D	cis-1,2-Dichloroethene	0.005 U								0.005 U			
MW-17D	Trichloroethene	0.005 U								0.005 U			
MW-17D	Vinyl chloride	0.005 U								0.005 U			
MW-17S	Iron	0.313								0.284			
MW-17S	Manganese	0.292								0.464			
MW-17S	Sodium	47.1								49.5			
MW-17S	cis-1,2-Dichloroethene	0.083								0.036			
MW-17S	Trichloroethene	0.014								0.0064			
MW-17S	Vinyl chloride	0.005 U								0.005 U			
MW-18D	Iron	20.9											
MW-18D	Manganese	0.967											
MW-18D	Sodium	23.4											
MW-18D	cis-1,2-Dichloroethene	0.005 U											
MW-18D	Trichloroethene	0.005 U											
MW-18D	Vinyl chloride	0.005 U											
MW-18S	Iron	3.62		0.394						37.3		4.18	
MW-18S	Manganese	0.0434		0.058						0.888		0.536	
MW-18S	Sodium	13.4		15.3						16.1		14.9	
MW-18S	cis-1,2-Dichloroethene	0.087		0.07						0.071		0.12	
MW-18S	Trichloroethene	0.068		0.053						0.063		0.037	
MW-18S	Vinyl chloride	0.005 U		0.005 U						0.005 U		0.005 U	

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	6/8/2004	6/9/2004	6/11/2004	12/7/2004	12/8/2004	12/9/2004	6/20/2005	6/21/2005	6/22/2005	6/23/2005	12/6/2005	12/7/2005	12/8/2005
CW-3A	Iron	0.1 U			0.1 U			0.117				0.1 U		
CW-3A	Manganese	0.0102			0.0649			0.0174				0.0313		
CW-3A	Sodium	44.1			56			54.3				63.6		
CW-3A	cis-1,2-Dichloroethene	0.061			0.038			0.13				0.041		
CW-3A	Trichloroethene	0.39			0.36			1				0.25 D		
CW-3A	Vinyl chloride	0.005 U			0.005 U			0.013				0.005 U		
CW-3B	Iron	0.1 U			0.132			1.62				0.1 U		
CW-3B	Manganese	0.0275			0.0399			0.0513				0.0473		
CW-3B	Sodium	22.4			20.8			22.8				23.6		
CW-3B	cis-1,2-Dichloroethene	0.051			0.049			0.074				0.081		
CW-3B	Trichloroethene	0.12			0.14			0.2				0.18 D		
CW-3B	Vinyl chloride	0.0055			0.005 U			0.01 U				0.005 U		
CW-4A	Iron	0.322			0.1 U			0.188						
CW-4A	Manganese	1			0.914			1.04						
CW-4A	Sodium	20.9			18.6			19.6						
CW-4A	cis-1,2-Dichloroethene	0.013			0.0079			0.0086						
CW-4A	Trichloroethene	0.005 U			0.005 U			0.005 U						
CW-4A	Vinyl chloride	0.005 U			0.005 U			0.005 U						
MW-3D	Iron		0.1 U						0.236					
MW-3D	Manganese		0.014						0.0217					
MW-3D	Sodium		17.9						15.6					
MW-3D	cis-1,2-Dichloroethene		0.033						0.037					
MW-3D	Trichloroethene		0.0057						0.0076					
MW-3D	Vinyl chloride		0.005 U						0.005					
MW-3S	Iron		1.07						0.621					
MW-3S	Manganese		0.0333						0.0189					
MW-3S	Sodium		31.3						30.1					
MW-3S	cis-1,2-Dichloroethene		0.005 U						0.005 U					
MW-3S	Trichloroethene		0.005 U						0.005 U					
MW-3S	Vinyl chloride		0.005 U						0.005 U					
MW-4D	Iron		0.543				0.482		0.382				0.733	
MW-4D	Manganese		0.734				0.632		0.604				0.909	
MW-4D	Sodium		9.1				8.52		9.01				8.18	
MW-4D	cis-1,2-Dichloroethene		0.62				0.39		0.44				0.74 D	
MW-4D	Trichloroethene		0.05				0.039		0.032				0.032	
MW-4D	Vinyl chloride		0.21				0.23		0.16				0.54 D	
MW-5D	Iron		0.471				0.443			0.527			0.482	
MW-5D	Manganese		1.44				1.43			1.5			1.38	
MW-5D	Sodium		6.49				6.66			7.24			7.23	
MW-5D	cis-1,2-Dichloroethene		2				1.3			1.6			1.2	
MW-5D	Trichloroethene		0.13				0.096			0.081			0.078	
MW-5D	Vinyl chloride		0.41				0.29			0.31			0.34	
MW-5S	Iron		2.03				1.65			0.866			2.52	
MW-5S	Manganese		0.506				0.489			0.156			0.446	
MW-5S	Sodium		7.75				4.14			8.04			7.8	
MW-5S	cis-1,2-Dichloroethene		0.61				0.17			0.6			0.51 D	
MW-5S	Trichloroethene		0.072				0.025			0.1			0.08	
MW-5S	Vinyl chloride		0.19				0.038			0.16			0.15	
MW-11S	Iron					0.1 U								
MW-11S	Manganese					1.52								
MW-11S	Sodium					18.6								
MW-11S	cis-1,2-Dichloroethene					0.52					0.53			0.63
MW-11S	Trichloroethene					2.9					3.2			3.1
MW-11S	Vinyl chloride					0.005 U					0.05 U			0.1 U
MW-16S	Iron					0.1 U								
MW-16S	Manganese					0.01 U								
MW-16S	Sodium					6.85								
MW-16S	cis-1,2-Dichloroethene					0.005 U					0.005 U			

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Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	6/8/2004	6/9/2004	6/11/2004	12/7/2004	12/8/2004	12/9/2004	6/20/2005	6/21/2005	6/22/2005	6/23/2005	12/6/2005	12/7/2005	12/8/2005
MW-16S	Trichloroethene					0.005 U					0.005 U			
MW-16S	Vinyl chloride					0.005 U					0.005 U			
MW-17D	Iron			9.01						11.9				
MW-17D	Manganese			1.23						1.12				
MW-17D	Sodium			29.5						30.2				
MW-17D	cis-1,2-Dichloroethene			0.005 U						0.005 U				
MW-17D	Trichloroethene			0.005 U						0.005 U				
MW-17D	Vinyl chloride			0.005 U						0.005 U				
MW-17S	Iron			0.229						0.24				
MW-17S	Manganese			0.459						1.3				
MW-17S	Sodium			58.9						52.7				
MW-17S	cis-1,2-Dichloroethene			0.13						0.06				
MW-17S	Trichloroethene			0.02						0.011				
MW-17S	Vinyl chloride			0.0086						0.005 U				
MW-18D	Iron			7.12										
MW-18D	Manganese			0.628										
MW-18D	Sodium			22.6										
MW-18D	cis-1,2-Dichloroethene			0.005 U										
MW-18D	Trichloroethene			0.005 U										
MW-18D	Vinyl chloride			0.005 U										
MW-18S	Iron			1.87			0.254				0.419	0.634		
MW-18S	Manganese			0.0704			0.043				0.0453	0.0596		
MW-18S	Sodium			16.1			16.1				16.2	19		
MW-18S	cis-1,2-Dichloroethene			0.063			0.09				0.1	0.089		
MW-18S	Trichloroethene			0.054			0.077				0.097	0.066		
MW-18S	Vinyl chloride			0.005 U			0.005 U				0.005 U	0.005 U		

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	3/27/2006	3/28/2006	3/29/2006	3/30/2006	3/31/2006	9/27/2006	9/28/2006	3/27/2007	3/28/2007	3/29/2007	3/30/2007	9/25/2007	9/26/2007
CW-3A	Iron				0.1 U			0.168				0.1 U	0.661	
CW-3A	Manganese				0.01 U			0.0325				0.0505	1.38	
CW-3A	Sodium				47			58.4				50.2	47.2	
CW-3A	cis-1,2-Dichloroethene				0.024			0.059				0.04	0.058	
CW-3A	Trichloroethene				0.18			0.29 D				0.22 D	0.36	
CW-3A	Vinyl chloride				0.005 U			0.005 U				0.005 U	0.01 U	
CW-3B	Iron				0.1 U			0.516				4.71	0.156	
CW-3B	Manganese				0.0441			0.0446				0.0688	0.0438	
CW-3B	Sodium				21.6			22				22.4	20.9	
CW-3B	cis-1,2-Dichloroethene				0.072			0.072				0.086	0.087	
CW-3B	Trichloroethene				0.19			0.19				0.24	0.26	
CW-3B	Vinyl chloride				0.01 U			0.01 U				0.01 U	0.01 U	
CW-4A	Iron		0.936									2.76		
CW-4A	Manganese		0.495									0.478		
CW-4A	Sodium		17.1									17		
CW-4A	cis-1,2-Dichloroethene		0.0069									0.0052		
CW-4A	Trichloroethene		0.005 U									0.005 U		
CW-4A	Vinyl chloride		0.005 U									0.005 U		
MW-3D	Iron				0.1 U							0.1 U		
MW-3D	Manganese				0.01 U							0.0131		
MW-3D	Sodium				16.9							15.8		
MW-3D	cis-1,2-Dichloroethene				0.024							0.027		
MW-3D	Trichloroethene				0.005 U							0.0054		
MW-3D	Vinyl chloride				0.005 U							0.005 U		
MW-3S	Iron				0.585							0.177		
MW-3S	Manganese				0.0106							0.01 U		
MW-3S	Sodium				26.9							27.4		
MW-3S	cis-1,2-Dichloroethene				0.005 U							0.005 U		
MW-3S	Trichloroethene				0.005 U							0.005 U		
MW-3S	Vinyl chloride				0.005 U							0.005 U		
MW-4D	Iron			0.657			0.686		1.2				0.806	
MW-4D	Manganese			0.583			0.799		0.406				0.859	
MW-4D	Sodium			7.12			8.24		8.28				7.98	
MW-4D	cis-1,2-Dichloroethene			0.3			0.73 D		0.42 D				3 E	
MW-4D	Trichloroethene			0.02			0.03		0.02				0.05 U	
MW-4D	Vinyl chloride			0.17			0.41 D		0.2				0.68	
MW-5D	Iron			0.545				0.595	0.71				0.531	
MW-5D	Manganese			1.41				1.37	1.51				1.41	
MW-5D	Sodium			6.9				6.97	7.03				7.68	
MW-5D	cis-1,2-Dichloroethene			1.5				1.4	1.8				1.4	
MW-5D	Trichloroethene			0.087				0.075	0.081				0.066	
MW-5D	Vinyl chloride			0.31				0.19	0.28				0.24	
MW-5S	Iron			3.67				1.28	8.01				0.794	
MW-5S	Manganese			1.1				0.161	0.257				0.18	
MW-5S	Sodium			5.13				7.94	7.11				7.92	
MW-5S	cis-1,2-Dichloroethene			0.29				0.47 D	0.44				0.49	
MW-5S	Trichloroethene			0.042				0.075	0.064				0.071	
MW-5S	Vinyl chloride			0.059				0.089	0.08				0.09	
MW-11S	Iron													
MW-11S	Manganese													
MW-11S	Sodium													
MW-11S	cis-1,2-Dichloroethene					0.56	0.54					0.5		0.52
MW-11S	Trichloroethene					3.1	3					2.9		3.2
MW-11S	Vinyl chloride					0.1 U	0.1 U					0.1 U		0.13 U
MW-16S	Iron													
MW-16S	Manganese													
MW-16S	Sodium													
MW-16S	cis-1,2-Dichloroethene					0.005 U	0.005 U					0.005 U		0.005 U

Table D-1

Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	3/27/2006	3/28/2006	3/29/2006	3/30/2006	3/31/2006	9/27/2006	9/28/2006	3/27/2007	3/28/2007	3/29/2007	3/30/2007	9/25/2007	9/26/2007
MW-16S	Trichloroethene					0.005 U	0.0066					0.005 U		0.005 U
MW-16S	Vinyl chloride					0.005 U	0.005 U					0.005 U		0.005 U
MW-17D	Iron	5.08								3.91				
MW-17D	Manganese	0.313								0.222				
MW-17D	Sodium	32.4								33.1				
MW-17D	cis-1,2-Dichloroethene	0.005 U								0.005 U				
MW-17D	Trichloroethene	0.005 U								0.005 U				
MW-17D	Vinyl chloride	0.005 U								0.005 U				
MW-17S	Iron	0.151								0.468				
MW-17S	Manganese	0.146								0.394				
MW-17S	Sodium	51.8								50.2				
MW-17S	cis-1,2-Dichloroethene	0.086								0.056				
MW-17S	Trichloroethene	0.014								0.0077				
MW-17S	Vinyl chloride	0.005 U								0.005 U				
MW-18D	Iron		5.08							4.15				
MW-18D	Manganese		0.583							0.349				
MW-18D	Sodium		24.6							23.1				
MW-18D	cis-1,2-Dichloroethene		0.005 U							0.005 U				
MW-18D	Trichloroethene		0.005 U							0.005 U				
MW-18D	Vinyl chloride		0.005 U							0.005 U				
MW-18S	Iron		1.35				0.622			2.51			0.753	
MW-18S	Manganese		0.0359				0.0339			0.0621			0.0567	
MW-18S	Sodium		16.6				17.6			17.3			31.6	
MW-18S	cis-1,2-Dichloroethene		0.053				0.087			0.058			0.005 U	
MW-18S	Trichloroethene		0.046				0.065			0.039			0.0052	
MW-18S	Vinyl chloride		0.005 U				0.005 U			0.005 U			0.005 U	

Table D-1

Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	3/24/2008	3/25/2008	3/26/2008	9/16/2008	9/17/2008	12/11/2008	4/27/2009	4/28/2009	4/29/2009	4/30/2009	9/9/2009	9/10/2009
CW-3A	Iron		0.15			0.1 U				0.13			
CW-3A	Manganese		0.018			0.12				0.08			
CW-3A	Sodium		51.2			67.4				51.6			
CW-3A	cis-1,2-Dichloroethene		0.03			0.018				0.02			
CW-3A	Trichloroethene		0.16			0.1				0.13			
CW-3A	Vinyl chloride		0.005 U			0.005 U				0.005 U			
CW-3B	Iron		0.205			0.193				0.17			
CW-3B	Manganese		0.0356			0.0386				0.044			
CW-3B	Sodium		22.6			22				21.1			
CW-3B	cis-1,2-Dichloroethene		0.078			0.078				0.083			
CW-3B	Trichloroethene		0.22			0.27 D				0.18 D			
CW-3B	Vinyl chloride		0.01 U			0.005 U				0.005 U			
CW-4A	Iron		5.14							0.73			
CW-4A	Manganese		0.49							0.262			
CW-4A	Sodium		17.9							16.1			
CW-4A	cis-1,2-Dichloroethene		0.005							0.005 U			
CW-4A	Trichloroethene		0.005 U							0.005 U			
CW-4A	Vinyl chloride		0.005 U							0.005 U			
MW-3D	Iron		0.1 U					0.1 U				0.1 U	
MW-3D	Manganese		0.0183					0.011				0.017	
MW-3D	Sodium		15.1					16.7				14.8	
MW-3D	cis-1,2-Dichloroethene		0.027					0.018				0.019	
MW-3D	Trichloroethene		0.0085					0.0057				0.0051	
MW-3D	Vinyl chloride		0.005 U					0.005 U				0.005 U	
MW-3S	Iron		0.196					0.34				0.1 U	
MW-3S	Manganese		0.01 U					0.01				0.01 U	
MW-3S	Sodium		30.4					37.4				30.9	
MW-3S	cis-1,2-Dichloroethene		0.005 U					0.005 U				0.005 U	
MW-3S	Trichloroethene		0.005 U					0.005 U				0.005 U	
MW-3S	Vinyl chloride		0.005 U					0.005 U				0.005 U	
MW-4D	Iron	1.98			0.706				0.93			1.18	
MW-4D	Manganese	0.614			0.613				0.534			1.12	
MW-4D	Sodium	8.48			7.86				8.3			8.4	
MW-4D	cis-1,2-Dichloroethene	0.75			2.5 D		1.8		0.9 D			0.67	
MW-4D	Trichloroethene	0.025 U			0.025 U		0.05 U		0.025 U			0.025 U	
MW-4D	Vinyl chloride	0.31			0.83		0.5		0.35			0.26	
MW-5D	Iron			2.24		0.455			0.49			0.45	
MW-5D	Manganese			1.29		1.22			1.26			1.31	
MW-5D	Sodium			6.78		7.04			6.5			7.1	
MW-5D	cis-1,2-Dichloroethene			1.6 D		1.2			1.5			1.6	
MW-5D	Trichloroethene			0.091		0.069			0.099			0.11	
MW-5D	Vinyl chloride			0.24 D		0.2			0.18			0.18	
MW-5S	Iron			3.17		0.452		2.88					0.25
MW-5S	Manganese			0.3		0.144		0.307					0.127
MW-5S	Sodium			5.32		7.22		6.4					6.9
MW-5S	cis-1,2-Dichloroethene			0.29		0.39		0.29					0.35
MW-5S	Trichloroethene			0.045		0.041		0.042					0.058
MW-5S	Vinyl chloride			0.056		0.081		0.043					0.064
MW-11S	Iron												0.38
MW-11S	Manganese												1.44
MW-11S	Sodium												19.8
MW-11S	cis-1,2-Dichloroethene	0.45				0.41					0.31		0.018
MW-11S	Trichloroethene	2.6				2.8					2.3 D		0.12
MW-11S	Vinyl chloride	0.1 U				0.1 U					0.022		0.005 U
MW-16S	Iron												0.2
MW-16S	Manganese												0.01 U
MW-16S	Sodium												7.7
MW-16S	cis-1,2-Dichloroethene	0.005 U				0.005 U					0.005 U		0.005 U

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	3/24/2008	3/25/2008	3/26/2008	9/16/2008	9/17/2008	12/11/2008	4/27/2009	4/28/2009	4/29/2009	4/30/2009	9/9/2009	9/10/2009
MW-16S	Trichloroethene	0.005 U				0.005 U					0.005 U		0.005 U
MW-16S	Vinyl chloride	0.005 U				0.005 U					0.005 U		0.005 U
MW-17D	Iron		13.4						6.21				8.33
MW-17D	Manganese		1.18						0.997				0.469
MW-17D	Sodium		29.6						29.4				31.5
MW-17D	cis-1,2-Dichloroethene		0.005 U						0.005 U				0.005 U
MW-17D	Trichloroethene		0.005 U						0.005 U				0.005 U
MW-17D	Vinyl chloride		0.005 U						0.005 U				0.005 U
MW-17S	Iron		2.85						0.64				0.23
MW-17S	Manganese		0.0716						0.342				0.134
MW-17S	Sodium		8.22						51.4				56.5
MW-17S	cis-1,2-Dichloroethene		0.005 U						0.022				0.065
MW-17S	Trichloroethene		0.005 U						0.005 U				0.014
MW-17S	Vinyl chloride		0.005 U						0.005 U				0.005 U
MW-18D	Iron			7.07					13				7.05
MW-18D	Manganese			0.454					0.574				0.565
MW-18D	Sodium			22.4					21.3				21.5
MW-18D	cis-1,2-Dichloroethene			0.005 U					0.005 U				0.005 U
MW-18D	Trichloroethene			0.005 U					0.005 U				0.005 U
MW-18D	Vinyl chloride			0.005 U					0.005 U				0.005 U
MW-18S	Iron			1.59	3.49				0.89				1.58
MW-18S	Manganese			0.393	0.341				0.634				0.073
MW-18S	Sodium			52.8	18.5				11.5	18.5			14
MW-18S	cis-1,2-Dichloroethene			0.064	0.0069				0.005 U				0.005 U
MW-18S	Trichloroethene			0.01	0.0072				0.005 U				0.0052
MW-18S	Vinyl chloride			0.005 U	0.005 U				0.005 U				0.005 U

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/14/2009	3/24/2010	3/25/2010	9/13/2010	9/14/2010	3/21/2011	3/22/2011	9/26/2011	9/27/2011	9/28/2011	9/29/2011	3/14/2012	3/15/2012
CW-3A	Iron	0.13				0.1 U				0.1 U				
CW-3A	Manganese	0.014				0.088				0.011				
CW-3A	Sodium	55.6				51.2				39.1				
CW-3A	cis-1,2-Dichloroethene	0.02				0.029				0.0089				
CW-3A	Trichloroethene	0.12				0.17				0.064				
CW-3A	Vinyl chloride	0.005 U				0.005 U				0.005 U				
CW-3B	Iron	0.15				0.1 U				1.16				
CW-3B	Manganese	0.034				0.035				0.037				
CW-3B	Sodium	20.9				20.2				20.4				
CW-3B	cis-1,2-Dichloroethene	0.071				0.09				0.082				
CW-3B	Trichloroethene	0.22				0.29 D				0.33				
CW-3B	Vinyl chloride	0.01 U				0.005 U				0.01 U				
CW-4A	Iron	0.32			0.53					0.24				
CW-4A	Manganese	0.735			0.731					0.465				
CW-4A	Sodium	16.9			16.3					16.1				
CW-4A	cis-1,2-Dichloroethene	0.0052			0.0051					0.005 U				
CW-4A	Trichloroethene	0.005 U			0.005 U					0.005 U				
CW-4A	Vinyl chloride	0.005 U			0.005 U					0.005 U				
MW-3D	Iron					0.1 U				0.1 U				
MW-3D	Manganese					0.016				0.01 U				
MW-3D	Sodium					13.8				15.3				
MW-3D	cis-1,2-Dichloroethene					0.017				0.011				
MW-3D	Trichloroethene					0.005 U				0.005 U				
MW-3D	Vinyl chloride					0.005 U				0.005 U				
MW-3S	Iron					0.12				0.1 U				
MW-3S	Manganese					0.01				0.01 U				
MW-3S	Sodium					31.5				30.4				
MW-3S	cis-1,2-Dichloroethene					0.005 U				0.005 U				
MW-3S	Trichloroethene					0.005 U				0.005 U				
MW-3S	Vinyl chloride					0.005 U				0.005 U				
MW-4D	Iron					0.84				0.6				
MW-4D	Manganese					0.54				0.729				
MW-4D	Sodium					8.2				7.9				
MW-4D	cis-1,2-Dichloroethene		0.56			0.61	0.59			0.66				0.38
MW-4D	Trichloroethene		0.025 U			0.025 U	0.025 U			0.025 U				0.013 U
MW-4D	Vinyl chloride		0.24			0.26	0.28			0.22				0.12
MW-5D	Iron				0.39					1.07				
MW-5D	Manganese				1.19					0.838				
MW-5D	Sodium				7					6.2				
MW-5D	cis-1,2-Dichloroethene		1.6		1.1		0.14			0.58			0.94	
MW-5D	Trichloroethene		0.099		0.071		0.025			0.037			0.082	
MW-5D	Vinyl chloride		0.18		0.13		0.025			0.068			0.11	
MW-5S	Iron				0.55					2.53				
MW-5S	Manganese				0.125					0.236				
MW-5S	Sodium				6.6					3.4				
MW-5S	cis-1,2-Dichloroethene		0.077		0.35		1.1			0.005 U	0.2 D			
MW-5S	Trichloroethene		0.013		0.041		0.099			0.005 U	0.04			
MW-5S	Vinyl chloride		0.012		0.06		0.16			0.005 U	0.03			
MW-11S	Iron					0.18				0.1 U				
MW-11S	Manganese					1.26				1.13				
MW-11S	Sodium					18.6				18.1				
MW-11S	cis-1,2-Dichloroethene			0.35 D		0.4 D		0.33		0.34				0.027
MW-11S	Trichloroethene			3 D		2.8 D		2.6		3				2.3
MW-11S	Vinyl chloride			0.027		0.029		0.13 U		0.13 U				0.13 U
MW-16S	Iron					0.21			0.64					
MW-16S	Manganese					0.03			0.013					
MW-16S	Sodium					7.6			7.8					
MW-16S	cis-1,2-Dichloroethene			0.005 U		0.005 U		0.005 U	0.005 U				0.005 U	

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/14/2009	3/24/2010	3/25/2010	9/13/2010	9/14/2010	3/21/2011	3/22/2011	9/26/2011	9/27/2011	9/28/2011	9/29/2011	3/14/2012	3/15/2012
MW-16S	Trichloroethene			0.005 U		0.005 U		0.005 U	0.005 U				0.005 U	
MW-16S	Vinyl chloride			0.005 U		0.005 U		0.005 U	0.005 U				0.005 U	
MW-17D	Iron				3.82						7.53			
MW-17D	Manganese				0.305						0.903			
MW-17D	Sodium				32.2						27.2			
MW-17D	cis-1,2-Dichloroethene				0.005 U						0.005 U			
MW-17D	Trichloroethene				0.005 U						0.005 U			
MW-17D	Vinyl chloride				0.005 U						0.005 U			
MW-17S	Iron				0.26						0.83			
MW-17S	Manganese				0.233						0.207			
MW-17S	Sodium				51.8						59.2			
MW-17S	cis-1,2-Dichloroethene				0.058						0.059			
MW-17S	Trichloroethene				0.012						0.012			
MW-17S	Vinyl chloride				0.005 U						0.005 U			
MW-18D	Iron				13.4						10.4			
MW-18D	Manganese				0.326						0.591			
MW-18D	Sodium				20.9						18.1			
MW-18D	cis-1,2-Dichloroethene				0.005 U						0.005 U			
MW-18D	Trichloroethene				0.005 U						0.005 U			
MW-18D	Vinyl chloride				0.005 U						0.005 U			
MW-18S	Iron				0.77						1.34			
MW-18S	Manganese				0.026						0.034			
MW-18S	Sodium				11.3						6.1			
MW-18S	cis-1,2-Dichloroethene				0.0059						0.005 U			
MW-18S	Trichloroethene				0.0057						0.005 U			
MW-18S	Vinyl chloride				0.005 U						0.005 U			

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Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/4/2012	9/5/2012	5/2/2013	10/22/2013	10/23/2013	10/24/2013
CW-3A	Iron		0.1 U		0.05		
CW-3A	Manganese		0.024		0.014		
CW-3A	Sodium		42.8		33.7		
CW-3A	cis-1,2-Dichloroethene		0.013		0.018		
CW-3A	Trichloroethene		0.082		0.1		
CW-3A	Vinyl chloride		0.005 U		0.0025		
CW-3B	Iron		0.15		0.05		
CW-3B	Manganese		0.033		0.035		
CW-3B	Sodium		22.5		21.6		
CW-3B	cis-1,2-Dichloroethene		0.072		0.1		
CW-3B	Trichloroethene		0.18		0.38		
CW-3B	Vinyl chloride		0.005 U		0.0025		
CW-4A	Iron		0.57		0.11		
CW-4A	Manganese		0.526		0.294		
CW-4A	Sodium		16		15.6		
CW-4A	cis-1,2-Dichloroethene		0.005 U		0.0025		
CW-4A	Trichloroethene		0.005 U		0.0025		
CW-4A	Vinyl chloride		0.005 U		0.0025		
MW-3D	Iron		0.1 U		0.05		
MW-3D	Manganese		0.01 U		0.503		
MW-3D	Sodium		18.5		16.4		
MW-3D	cis-1,2-Dichloroethene		0.0055		0.0025		
MW-3D	Trichloroethene		0.005 U		0.0025		
MW-3D	Vinyl chloride		0.005 U		0.0025		
MW-3S	Iron		0.1 U			0.05	
MW-3S	Manganese		0.01 U			0.005	
MW-3S	Sodium		33.7			33.4	
MW-3S	cis-1,2-Dichloroethene		0.005 U			0.0025	
MW-3S	Trichloroethene		0.005 U			0.0025	
MW-3S	Vinyl chloride		0.005 U			0.0025	
MW-4D	Iron	0.48				0.41	
MW-4D	Manganese	0.729				0.52	
MW-4D	Sodium	7.6				7.3	
MW-4D	cis-1,2-Dichloroethene	0.54 D		0.37		0.3	
MW-4D	Trichloroethene	0.013 U		0.0025		0.0025	
MW-4D	Vinyl chloride	0.15		0.14		0.061	
MW-5D	Iron	0.33					0.88
MW-5D	Manganese	0.484					0.645
MW-5D	Sodium	6.4					5.2
MW-5D	cis-1,2-Dichloroethene	0.23 D		0.98			0.23
MW-5D	Trichloroethene	0.0095		0.14			0.017
MW-5D	Vinyl chloride	0.034		0.13			0.024
MW-5S	Iron	0.13					1.8
MW-5S	Manganese	0.112					0.312
MW-5S	Sodium	7					4.9
MW-5S	cis-1,2-Dichloroethene	0.3		0.98			0.098
MW-5S	Trichloroethene	0.05		0.14			0.0067
MW-5S	Vinyl chloride	0.042		0.13			0.011
MW-11S	Iron		0.1			0.13	
MW-11S	Manganese		1.12			1.15	
MW-11S	Sodium		20.2			19.7	
MW-11S	cis-1,2-Dichloroethene		0.36	0.33		0.4	
MW-11S	Trichloroethene		3.3	2.9		3.6	
MW-11S	Vinyl chloride		0.13 U	0.0025		0.0025	
MW-16S	Iron		0.1 U		0.27		
MW-16S	Manganese		0.01 U		0.011		
MW-16S	Sodium		8.6		9.1		
MW-16S	cis-1,2-Dichloroethene		0.005 U	0.0025	0.0025		

Table D-1

Analytical Results for Time Trend Graphs 1998 - 2013
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Location	Parameter	9/4/2012	9/5/2012	5/2/2013	10/22/2013	10/23/2013	10/24/2013
MW-16S	Trichloroethene		0.005 U	0.0025	0.0025		
MW-16S	Vinyl chloride		0.005 U	0.0025	0.0025		
MW-17D	Iron	9.25				7.58	
MW-17D	Manganese	0.973				0.967	
MW-17D	Sodium	28.4				27.9	
MW-17D	cis-1,2-Dichloroethene	0.005 U				0.0025	
MW-17D	Trichloroethene	0.005 U				0.0025	
MW-17D	Vinyl chloride	0.005 U				0.0025	
MW-17S	Iron	0.51				2.77	
MW-17S	Manganese	0.123				1.17	
MW-17S	Sodium	63				64.6	
MW-17S	cis-1,2-Dichloroethene	0.077				0.064	
MW-17S	Trichloroethene	0.015				0.016	
MW-17S	Vinyl chloride	0.005 U				0.0025	
MW-18D	Iron	9.18				3.99	
MW-18D	Manganese	0.547				0.412	
MW-18D	Sodium	21.6				21.3	
MW-18D	cis-1,2-Dichloroethene	0.005 U				0.0025	
MW-18D	Trichloroethene	0.005 U				0.0025	
MW-18D	Vinyl chloride	0.005 U				0.0025	
MW-18S	Iron	0.49				1.14	
MW-18S	Manganese	0.216				0.301	
MW-18S	Sodium	8.7				6.6	
MW-18S	cis-1,2-Dichloroethene	0.008				0.0025	
MW-18S	Trichloroethene	0.006				0.0075	
MW-18S	Vinyl chloride	0.005 U				0.0025	

Notes:

- U** - Concentration not detected at specified detection limit
- E** - Concentration exceeded calibration range associated with analysis
- B** - Analyte detected in associated method blank
- D** - Diluted sample
- J** - Estimated value



November 25, 2013

Service Request No: R1307945

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

Laboratory Results for: Wellsville-Andover LF/Annual Sampling

Dear Mr. Brandes:

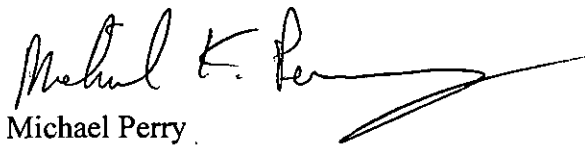
Enclosed are the results of the sample(s) submitted to our laboratory between October 23, 2013 and October 26, 2013. For your reference, these analyses have been assigned our service request number **R1307945**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, 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) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7469. You may also contact me via email at Mike.Perry@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental


Michael Perry
Laboratory Manager

Page 1 of 166

ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623 PHONE 585-288-5380 | FAX 585-288-8475

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Environmental 

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00001

Columbia Analytical Services, Inc.

Nonconformity and Corrective Action Report

NCAR No: R2838 Assigned by QA

NONCONFORMITY

PROCEDURE (SOP or METHOD): BOD EVENT DATE: 10/23/13

EVENT: Missed Holding Time QC Failure Lab Error (spilled sample, spiking error, etc.)
 Method Blank Contamination Login Error Project Management Error
 Equipment Failure Unacceptable PT Sample Result
 SOP Deviation Other (describe):

LIST PROJECTS AND SAMPLES, OR PROCESSES AFFECTED
R1307924-008 + 7948-001, 002 - OBE R1307942-001 - Evans
R1307941-001 - Momentive R1307926-001 - Village of Macedon
R1307945-006 - On-site R1307925-001-7087
R1307958-002 - Sen. Meadow R1307929-003 - Oneida-Herkimer

DETAILED DESCRIPTION:
~~LCS on associated carboy (#3) was clearly not spiked. Reported w/passing LCS from same day on same type of DO meter + the only difference was the water + carboy used.~~

ORIGINATOR: ED DATE: 10/28/13
 EMAIL AS ATTACHMENT TO PROJECT MANAGER(S): MP BY: _____ DATE: _____

ROOT CAUSE OF NONCONFORMITY (POTENTIAL CAUSES COULD BE TRAINING, COMMUNICATION, SPECIFICATIONS, EQUIPMENT, KNOWLEDGE)

Describe the identified cause of the error or finding. Note that cause determination may not be needed for such nonconformities as simple blunders, mistakes, or errors that do not indicate a systematic failure.
LCS not spiked

CORRECTIVE ACTION AND OUTCOME

Remedial action for specific sample or QC data, report, or procedure is described here, including any Project Manager instructions.
Reported w/passing LCS from the same day, same type of meter - only difference is carboy of water

Is the data to be flagged in the Analytical Report with an appropriate qualifier? No Yes

Corrective action to address the cause of the nonconformity, reestablish conformity, and prevent recurrence is described below.

APPROVAL AND NOTIFICATION

NOTE: Re-establishment of conformity must be demonstrated and documented. 10/29/13

Supervisor approves the corrective action and agrees to implement all listed actions: [Signature] Date: 10/29/13
 Comments: _____

QA PM approves the corrective action and has verified implementation: _____ Date: _____
 Comments: _____

Project Manager approves corrective action and has completed customer notification as listed below: _____ Date: _____
 Comments: _____

Customer Notified by Telephone Fax E-mail Narrative Not notified

MP 11/25/13

Nonconformity and Corrective Action Report

NCAR No: R2870
Assigned by QA

NONCONFORMITY

PROCEDURE (SOP or METHOD): Alkalinity EVENT DATE: 11/8/13

EVENT: Missed Holding Time QC Failure Lab Error (spilled sample, spiking error, etc.)
 Method Blank Contamination Login Error Project Management Error
 Equipment Failure Unacceptable PT Sample Result
 SOP Deviation Other (describe):

LIST PROJECTS AND SAMPLES, OR PROCESSES AFFECTED
Onsite R1307945-007:

DETAILED DESCRIPTION:
Soil sample extracted after 14 day HT however, the method is modified for the matrix + does not apply to soils.

ORIGINATOR: BD DATE: 11/12/13
 EMAIL AS ATTACHMENT TO PROJECT MANAGER(S): MP BY: _____ DATE: _____

ROOT CAUSE OF NONCONFORMITY (POTENTIAL CAUSES COULD BE TRAINING, COMMUNICATION, SPECIFICATIONS, EQUIPMENT, KNOWLEDGE)

Describe the identified cause of the error or finding. Note that cause determination may not be needed for such nonconformities as simple blunders, mistakes, or errors that do not indicate a systematic failure.

Analyzed w/in 14 days of extraction Due to sample volume in house,
BD 11/12/13 analyzed after 14 day HT.

CORRECTIVE ACTION AND OUTCOME

Remedial action for specific sample or QC data, report, or procedure is described here, including any Project Manager instructions.

Analyzed w/in 14 days of extraction + the method is modified for soils + the HT doesn't apply to them.

Is the data to be flagged in the Analytical Report with an appropriate qualifier? No Yes

Corrective action to address the cause of the nonconformity, reestablish conformity, and prevent reoccurrence is described below.

holding time began at sample prep ∴ met 14 day
hold from sample prep

APPROVAL AND NOTIFICATION

NOTE: Re-establishment of conformity must be demonstrated and documented.

Supervisor approves the corrective action and agrees to implement all listed actions: [Signature] Date: 11/13/13
 Comments: _____

QA PM approves the corrective action and has verified implementation: _____ Date: _____
 Comments: _____

Project Manager approves corrective action and has completed customer notification as listed below: _____ Date: _____
 Comments: _____

Customer Notified by Telephone Fax E-mail Narrative Not notified MP/25/13

alk method is modified for soils - no actual HT for mark

Columbia Analytical Services, Inc.

Nonconformity and Corrective Action Report

NCAR No: R2840 Assigned by QA

NONCONFORMITY

PROCEDURE (SOP or METHOD): 300.0 Nitrate by Ion Chromatography

EVENT DATE: 10/25/13

- EVENT: [X] Missed Holding Time [] QC Failure [] Lab Error (spilled sample, spiking error, etc.)
[] Method Blank Contamination [] Login Error [] Project Management Error
[] Equipment Failure [] Unacceptable PT Sample Result
[] SOP Deviation [] Other (describe):

LIST PROJECTS AND SAMPLES, OR PROCESSES AFFECTED

On-Site Technical Services, Inc. R1307945-006, -008, and -009

DETAILED DESCRIPTION:

Samples analyzed out of 48 hour holding time.

ORIGINATOR: Christopher M. Woods

DATE: 10/28/13

EMAIL AS ATTACHMENT TO PROJECT MANAGER(S): Michael Perry BY: Christopher M. Woods

DATE: 10/28/13

ROOT CAUSE OF NONCONFORMITY (POTENTIAL CAUSES COULD BE TRAINING, COMMUNICATION, SPECIFICATIONS, EQUIPMENT, KNOWLEDGE)

Describe the identified cause of the error or finding. Note that cause determination may not be needed for such nonconformities as simple blunders, mistakes, or errors that do not indicate a systematic failure. The above samples were not written on the shortie board in wet chem. Analysts noticed the samples were in house only after a responsibility report was obtained. Samples were then analyzed as soon as possible.

CORRECTIVE ACTION AND OUTCOME

Remedial action for specific sample or QC data, report, or procedure is described here, including any Project Manager instructions.

N/A

Is the data to be flagged in the Analytical Report with an appropriate qualifier? [] No [] Yes

Corrective action to address the cause of the nonconformity, reestablish conformity, and prevent reoccurrence is described below.

APPROVAL AND NOTIFICATION

NOTE: Re-establishment of conformity must be demonstrated and documented.

Supervisor approves the corrective action and agrees to implement all listed actions: [Signature]

10/31/13 Date: _____

QA PM approves the corrective action and has verified implementation: _____

Date: _____

Project Manager approves corrective action and has completed customer notification as listed below: _____

Date: _____

Customer Notified by [] Telephone [] Fax [] E-mail [X] Narrative [] Not notified

M&P 11/25/13

Completed electronic copies to QA PM and supervisor/manager. Electronic or photocopy to Customer File.

CASE NARRATIVE

Client: On Site Technical Services, Inc
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request No.: R1308150
Project No.: 1013
Date Received: 10/23, 10/24, + 10/26/13

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II, ASP-A deliverables. When appropriate to the method, blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 10/22/13 - 10/25/13 and received at CAS in good condition in the proper temperature range 0.3 – 1.6 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the second page of the CAS case narrative for a cross reference between Client ID and CAS Lab ID #.

Volatile Organics Analysis - 8260

Twenty-three water samples were analyzed a site list of Volatile Organics by method 8260C from SW-846. Four water samples were analyzed for the drinking water list of volatile organics by EPA method 524.2

Several samples were initially analyzed at dilutions based on prescreening of the sample and/or historical data. Samples CW3B-1013, MW32-1013, MW-17S-1013 were re-analyzed at larger dilutions to bring target analytes within the calibration range of the method. Both dilutions were reported with analytes over the calibration range of the method flagged with an "E" and the diluted analytes flagged with a "D".

The pH was <2 for all samples at the time of analysis.

All Tuning criteria for BFB were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All Internal Standard Areas were within QC limits.

All surrogate standard recoveries were within acceptance limits for all samples.

Blank Spike (LCS) recoveries were all within QC limits

Sample MW18D-1013 was analyzed for the matrix spike/matrix spike duplicate as requested. All recoveries and RPD were within QC limits.

The Method Blanks associated with these samples were free of contamination.

Metals Analysis

Twenty-two water samples were analyzed for a modified Part 360 routine list of Total Metals by SW-846 ICP method 6010C. One sediment sample was analyzed for a site specific list of metals by ICP method 6010C.

All Initial and Continuing Instrument Calibration, CRDL standard, Initial and Continuing Calibration Blank, Preparation Blank, ICP Interference Check Sample, Matrix spike, Duplicate Sample, Instrument Detection Limit, Interelement Correction Factor, and ICP Linear Range criteria were met in accordance with the SAP Appendix V Validation Checklist, Trace Metals.

The Blank Spike recoveries (LCS) were all within QC limits.

The Spiked Sample Recoveries from sample MW18D-1013 were all within control limits of 75-125% recovery. The % RPDs were all within QC limits. The recoveries for Calcium and Magnesium could not be accurately determined since the amount of analyte detected in the sample was greater than 4X the spike amount added. The recoveries were flagged with a "#".

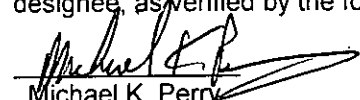
Inorganic Analysis

One water sample and one sediment sample were analyzed for a site list of inorganic analytes. Also, two water samples were analyzed for Total Dissolved Solids by SM 2540C and Nitrate by EPA method 300.0 only.

Due to a laboratory error, the Nitrate analysis for samples SWS1-1013, MH32-1013 and MH33-1013 was done one day outside the 2 day holding time.

All blank spike recoveries (LCS) were within QC limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager

11/25/13
Date

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1307945

<u>Lab ID</u>	<u>Client ID</u>
R1307945-001	MW16S-1013
R1307945-002	CW 3B-1013
R1307945-003	CW 4B-1013
R1307945-004	CW 3A-1013
R1307945-005	CW 4A-1013
R1307945-006	SWS1-1013
R1307945-007	SWS1SED-1013
R1307945-008	MH32-1013
R1307945-009	MH33-1013
R1307945-010	TRIP BLANK
R1307945-011	MW11S-1013
R1307945-012	DUP1-1013
R1307945-013	MW18S-1013
R1307945-014	MW17D-1013
R1307945-015	MW18D-1013
R1307945-016	MW17S-1013
R1307945-017	LS1-1013
R1307945-018	MW3D-1013
R1307945-019	MW3S-1013
R1307945-020	MW4D-1013
R1307945-021	MW15S-1013
R1307945-022	EB1-1013
R1307945-023	MW5S-1013
R1307945-024	MW5D-1013
R1307945-025	WAL19PRE-1013
R1307945-026	WAL19INTER-1013
R1307945-027	WAL19POST-1013
R1307945-028	TRIP BLAK
R1308111-009	Batch QC



REPORT QUALIFIERS AND DEFINITIONS

- 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.
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).
B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
* 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.
H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
Spike was diluted out.
+ Correlation coefficient for MSA is <0.995.
N Inorganics- Matrix spike recovery was outside laboratory limits.
N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S Concentration has been determined using Method of Standard Additions (MSA).
W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P Concentration >40% (25% for CLP) difference between the two GC columns.
C Confirmed by GC/MS
Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X See Case Narrative for discussion.
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.
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).
LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Table with 3 columns: State/Agency, ID #, and Certification #. Rows include: NELAP Accredited, Connecticut ID # PH0556, Delaware Accredited, DoD ELAP #65817, Florida ID # E87674, Illinois ID #200047, Maine ID #NY0032, Nebraska Accredited, Nevada ID # NY-00032, New Jersey ID # NY004, New York ID # 10145, Virginia #460167, North Carolina #676, Pennsylvania ID# 68-786, Rhode Island ID # 158.

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 laboratory case narrative provided. For a specific list of accredited analytes, refer to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads





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	3010A
200.8	ILM05.3
6010C	3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
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	3010A
6010 SPLP (1312) extract	3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
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.

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW16S-1013
 Lab Code: R1307945-001

Service Request: R1307945
 Date Collected: 10/22/13 0930
 Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:48	
Barium, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 09:48	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 09:48	
Calcium, Total	6010C	15400		µg/L	1000	1	10/30/13	11/8/13 09:48	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:48	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:14	
Iron, Total	6010C	270		µg/L	100	1	10/30/13	11/8/13 09:48	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 09:48	
Magnesium, Total	6010C	10000		µg/L	1000	1	10/30/13	11/8/13 09:48	
Manganese, Total	6010C	11		µg/L	10	1	10/30/13	11/8/13 09:48	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 09:48	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 09:48	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:48	
Sodium, Total	6010C	9100		µg/L	1000	1	10/30/13	11/8/13 09:48	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 09:48	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 0930
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 15:50

Sample Name: MW16S-1013
 Lab Code: R1307945-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\msvoa10\data\110113\F3557.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

00011

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 0930
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 15:50

Sample Name: MW16S-1013
 Lab Code: R1307945-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3557.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	11/1/13 15:50	
Toluene-d8	93	87-121	11/1/13 15:50	
Dibromofluoromethane	116	89-119	11/1/13 15:50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Water
Sample Name: CW 3B-1013
Lab Code: R1307945-002

Service Request: R1307945
Date Collected: 10/22/13 1250
Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:54	
Barium, Total	6010C	37		µg/L	20	1	10/30/13	11/8/13 09:54	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 09:54	
Calcium, Total	6010C	66700		µg/L	1000	1	10/30/13	11/8/13 09:54	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:54	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:20	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/8/13 09:54	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 09:54	
Magnesium, Total	6010C	36300		µg/L	1000	1	10/30/13	11/8/13 09:54	
Manganese, Total	6010C	35		µg/L	10	1	10/30/13	11/8/13 09:54	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 09:54	
Potassium, Total	6010C	2300		µg/L	2000	1	10/30/13	11/8/13 09:54	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:54	
Sodium, Total	6010C	21600		µg/L	1000	1	10/30/13	11/8/13 09:54	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 09:54	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1250
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 16:22

Sample Name: CW 3B-1013
 Lab Code: R1307945-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3558.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	100		5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	420	E	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1250
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 16:22

Sample Name: CW 3B-1013
 Lab Code: R1307945-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3558.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85-122	11/1/13 16:22	
Toluene-d8	95	87-121	11/1/13 16:22	
Dibromofluoromethane	115	89-119	11/1/13 16:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1250
 Date Received: 10/23/13
 Date Analyzed: 11/4/13 17:30

Sample Name: CW 3B-1013
 Lab Code: R1307945-002
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110413\F3606.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	50	U	50	
71-43-2	Benzene	25	U	25	
75-27-4	Bromodichloromethane	25	U	25	
75-25-2	Bromoform	25	U	25	
74-83-9	Bromomethane	25	U	25	
78-93-3	2-Butanone (MEK)	50	U	50	
75-15-0	Carbon Disulfide	50	U	50	
56-23-5	Carbon Tetrachloride	25	U	25	
108-90-7	Chlorobenzene	25	U	25	
75-00-3	Chloroethane	25	U	25	
67-66-3	Chloroform	25	U	25	
74-87-3	Chloromethane	25	U	25	
124-48-1	Dibromochloromethane	25	U	25	
75-34-3	1,1-Dichloroethane	25	U	25	
106-93-4	1,2-Dibromoethane	25	U	25	
107-06-2	1,2-Dichloroethane	25	U	25	
75-35-4	1,1-Dichloroethene	25	U	25	
156-59-2	cis-1,2-Dichloroethene	84	D	25	
156-60-5	trans-1,2-Dichloroethene	25	U	25	
78-87-5	1,2-Dichloropropane	25	U	25	
10061-01-5	cis-1,3-Dichloropropene	25	U	25	
10061-02-6	trans-1,3-Dichloropropene	25	U	25	
100-41-4	Ethylbenzene	25	U	25	
591-78-6	2-Hexanone	50	U	50	
75-09-2	Methylene Chloride	25	U	25	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	
100-42-5	Styrene	25	U	25	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	
127-18-4	Tetrachloroethene	25	U	25	
108-88-3	Toluene	25	U	25	
71-55-6	1,1,1-Trichloroethane	25	U	25	
79-00-5	1,1,2-Trichloroethane	25	U	25	
79-01-6	Trichloroethene	380	D	25	
75-01-4	Vinyl Chloride	25	U	25	
95-47-6	o-Xylene	25	U	25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 12:50
 Date Received: 10/23/13
 Date Analyzed: 11/4/13 17:30

Sample Name: CW 3B-1013
 Lab Code: R1307945-002
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3606.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	25	U	25	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	11/4/13 17:30	
Toluene-d8	95	87-121	11/4/13 17:30	
Dibromofluoromethane	113	89-119	11/4/13 17:30	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: CW 4B-1013
 Lab Code: R1307945-003

Service Request: R1307945
 Date Collected: 10/22/13 1105
 Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:00	
Barium, Total	6010C	38		µg/L	20	1	10/30/13	11/8/13 10:00	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:00	
Calcium, Total	6010C	35900		µg/L	1000	1	10/30/13	11/8/13 10:00	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:00	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:27	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/8/13 10:00	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:00	
Magnesium, Total	6010C	16200		µg/L	1000	1	10/30/13	11/8/13 10:00	
Manganese, Total	6010C	503		µg/L	10	1	10/30/13	11/8/13 10:00	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:00	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 10:00	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:00	
Sodium, Total	6010C	16400		µg/L	1000	1	10/30/13	11/8/13 10:00	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1105
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 16:54

Sample Name: CW 4B-1013
 Lab Code: R1307945-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3559.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1105
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 16:54

Sample Name: CW 4B-1013
 Lab Code: R1307945-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3559.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	11/1/13 16:54	
Toluene-d8	95	87-121	11/1/13 16:54	
Dibromofluoromethane	115	89-119	11/1/13 16:54	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: CW 3A-1013
 Lab Code: R1307945-004

Service Request: R1307945
 Date Collected: 10/22/13 1255
 Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:06	
Barium, Total	6010C	82		µg/L	20	1	10/30/13	11/8/13 10:06	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:06	
Calcium, Total	6010C	125000		µg/L	1000	1	10/30/13	11/8/13 10:06	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:06	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:33	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/8/13 10:06	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:06	
Magnesium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/8/13 10:06	
Manganese, Total	6010C	14		µg/L	10	1	10/30/13	11/8/13 10:06	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:06	
Potassium, Total	6010C	16100		µg/L	2000	1	10/30/13	11/8/13 10:06	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:06	
Sodium, Total	6010C	33700		µg/L	1000	1	10/30/13	11/8/13 10:06	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:06	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1255
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 17:26

Sample Name: CW 3A-1013
 Lab Code: R1307945-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3560.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	18	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	100	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1255
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 17:26

Sample Name: CW 3A-1013
 Lab Code: R1307945-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3560.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	11/1/13 17:26	
Toluene-d8	95	87-121	11/1/13 17:26	
Dibromofluoromethane	114	89-119	11/1/13 17:26	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: CW 4A-1013
 Lab Code: R1307945-005

Service Request: R1307945
 Date Collected: 10/22/13 1105
 Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:12	
Barium, Total	6010C	46		µg/L	20	1	10/30/13	11/8/13 10:12	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:12	
Calcium, Total	6010C	24600		µg/L	1000	1	10/30/13	11/8/13 10:12	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:12	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:39	
Iron, Total	6010C	110		µg/L	100	1	10/30/13	11/8/13 10:12	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:12	
Magnesium, Total	6010C	15800		µg/L	1000	1	10/30/13	11/8/13 10:12	
Manganese, Total	6010C	294		µg/L	10	1	10/30/13	11/8/13 10:12	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:12	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 10:12	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:12	
Sodium, Total	6010C	15600		µg/L	1000	1	10/30/13	11/8/13 10:12	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1105
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 17:57

Sample Name: CW 4A-1013
 Lab Code: R1307945-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3561.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1105
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 17:57

Sample Name: CW 4A-1013
 Lab Code: R1307945-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3561.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	11/1/13 17:57	
Toluene-d8	93	87-121	11/1/13 17:57	
Dibromofluoromethane	116	89-119	11/1/13 17:57	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: SWS1-1013
 Lab Code: R1307945-006

Service Request: R1307945
 Date Collected: 10/22/13 0955
 Date Received: 10/23/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO3, Total	SM 2320 B	127		mg/L	2.0	1	NA	10/31/13 16:10	
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	1	NA	11/14/13 12:49	
Biochemical Oxygen Demand (BOD)	SM 5210 B	2.0	U	mg/L	2.0	1	NA	10/23/13 15:50	
Bromide	300.0	1.0	U	mg/L	1.0	10	NA	10/25/13 19:31	
Carbon, Total Organic (TOC)	SM20 5310 C	9.9		mg/L	1.0	1	NA	11/13/13 11:51	
Chemical Oxygen Demand, Total	410.4	33.6		mg/L	5.0	1	NA	11/6/13 07:15	
Chloride	300.0	11.8		mg/L	2.0	10	NA	10/25/13 19:31	
Color, True	SM 2120 B	86.0		ColorUnits	1.0	1	NA	10/23/13 21:22	
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	NA	10/25/13 19:31	*
Nitrogen, Total Kjeldahl (TKN)	351.2	0.85		mg/L	0.20	1	11/ 4/13	11/5/13 17:34	
Phenolics, Total Recoverable	420.4	0.0050	U	mg/L	0.0050	1	NA	11/7/13 09:00	
Solids, Total Dissolved	SM 2540 C	180		mg/L	10	1	NA	10/24/13 12:50	
Sulfate	300.0	2.7		mg/L	2.0	10	NA	10/25/13 19:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: SWS1-1013
 Lab Code: R1307945-006

Service Request: R1307945
 Date Collected: 10/22/13 0955
 Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:19	
Barium, Total	6010C	27		µg/L	20	1	10/30/13	11/8/13 10:19	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:19	
Calcium, Total	6010C	30300		µg/L	1000	1	10/30/13	11/8/13 10:19	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:19	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:45	
Iron, Total	6010C	1020		µg/L	100	1	10/30/13	11/8/13 10:19	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:19	
Magnesium, Total	6010C	10100		µg/L	1000	1	10/30/13	11/8/13 10:19	
Manganese, Total	6010C	28		µg/L	10	1	10/30/13	11/8/13 10:19	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:19	
Potassium, Total	6010C	2700		µg/L	2000	1	10/30/13	11/8/13 10:19	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:19	
Sodium, Total	6010C	11700		µg/L	1000	1	10/30/13	11/8/13 10:19	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:19	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 0955
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 18:29

Sample Name: SWS1-1013
 Lab Code: R1307945-006

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3562.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 0955
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 18:29

Sample Name: SWS1-1013
 Lab Code: R1307945-006

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3562.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	11/1/13 18:29	
Toluene-d8	94	87-121	11/1/13 18:29	
Dibromofluoromethane	115	89-119	11/1/13 18:29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Soil
Sample Name: SWS1SED-1013
Lab Code: R1307945-007

Service Request: R1307945
Date Collected: 10/22/13 1015
Date Received: 10/23/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	37.8	Percent	1.0	1	NA	10/29/13 16:45	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil
 Sample Name: SWS1SED-1013
 Lab Code: R1307945-007

Service Request: R1307945
 Date Collected: 10/22/13 1015
 Date Received: 10/23/13

Basis: Dry, per Method

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Carbon, Total Organic (TOC)	EPA LKahn 7-27-1988	32300	mg/Kg	6500	1	NA	10/30/13 08:50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil
 Sample Name: SWS1SED-1013
 Lab Code: R1307945-007

Service Request: R1307945
 Date Collected: 10/22/13 1015
 Date Received: 10/23/13

Basis: Dry
 Percent Solids: 37.8

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B Modified	3390		mg/Kg	530	1	11/ 7/13	11/8/13 10:00	
Ammonia as Nitrogen, undistilled	350.1M	25		mg/Kg	13	1	11/13/13	11/13/13 15:52	
Bromide	9056A	26	U	mg/Kg	26	1	11/ 4/13	11/5/13 17:27	
Chemical Oxygen Demand, Total	SM 5220 B Modified	96900		mg/Kg	1000	1	NA	11/1/13 07:45	
Chloride	9056A	224		mg/Kg	79	1	11/ 4/13	11/5/13 17:27	
Nitrate as Nitrogen	9056A	26	U	mg/Kg	26	1	11/ 4/13	11/5/13 17:27	
Nitrogen, Total Kjeldahl (TKN)	351.2 Modified	3430		mg/Kg	85	2	11/11/13	11/13/13 10:45	
Phenolics, Total Recoverable	9066 Modified	0.26	U	mg/Kg	0.26	1	11/ 5/13	11/5/13 10:45	
Sulfate	9056A	79	U	mg/Kg	79	1	11/ 4/13	11/5/13 17:27	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Soil
Sample Name: SWS1SED-1013
Lab Code: R1307945-007

Service Request: R1307945
Date Collected: 10/22/13 1015
Date Received: 10/23/13

Basis: Dry
Percent Solids: 37.8

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10.6		mg/Kg	2.5	1	11/4/13	11/8/13 05:56	
Barium, Total	6010C	113		mg/Kg	5.1	1	11/4/13	11/8/13 05:56	
Cadmium, Total	6010C	1.3	U	mg/Kg	1.3	1	11/4/13	11/8/13 05:56	
Calcium, Total	6010C	12400		mg/Kg	250	1	11/4/13	11/14/13 09:38	
Chromium, Total	6010C	13.5		mg/Kg	2.5	1	11/4/13	11/8/13 05:56	
Copper, Total	6010C	22.5		mg/Kg	5.1	1	11/4/13	11/8/13 05:56	
Iron, Total	6010C	23700		mg/Kg	250	10	11/4/13	11/8/13 03:10	
Lead, Total	6010C	15		mg/Kg	13	1	11/4/13	11/8/13 05:56	
Magnesium, Total	6010C	3640		mg/Kg	250	1	11/4/13	11/8/13 05:56	
Manganese, Total	6010C	1020		mg/Kg	2.5	1	11/4/13	11/14/13 09:38	
Nickel, Total	6010C	21		mg/Kg	10	1	11/4/13	11/8/13 05:56	
Potassium, Total	6010C	2060		mg/Kg	510	1	11/4/13	11/8/13 05:56	
Selenium, Total	6010C	2.5	U	mg/Kg	2.5	1	11/4/13	11/8/13 05:56	
Sodium, Total	6010C	300		mg/Kg	250	1	11/4/13	11/14/13 09:38	
Zinc, Total	6010C	5340		mg/Kg	51	10	11/4/13	11/8/13 03:10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Collected: 10/22/13 1015
 Date Received: 10/23/13
 Date Analyzed: 11/3/13 22:48

Sample Name: SWS1SED-1013
 Lab Code: R1307945-007

Units: µg/Kg
 Basis: Dry
 Percent Solids: 37.8

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA7\DATA\110313\K6057.D\

Analysis Lot: 366431
 Instrument Name: R-MS-07
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	13	U	13	
71-43-2	Benzene	13	U	13	
75-27-4	Bromodichloromethane	13	U	13	
75-25-2	Bromoform	13	U	13	
74-83-9	Bromomethane	13	U	13	
78-93-3	2-Butanone (MEK)	13	U	13	
75-15-0	Carbon Disulfide	13	U	13	
56-23-5	Carbon Tetrachloride	13	U	13	
108-90-7	Chlorobenzene	13	U	13	
75-00-3	Chloroethane	13	U	13	
67-66-3	Chloroform	13	U	13	
74-87-3	Chloromethane	13	U	13	
124-48-1	Dibromochloromethane	13	U	13	
75-34-3	1,1-Dichloroethane	13	U	13	
106-93-4	1,2-Dibromoethane	13	U	13	
107-06-2	1,2-Dichloroethane	13	U	13	
75-35-4	1,1-Dichloroethene	13	U	13	
156-59-2	cis-1,2-Dichloroethene	13	U	13	
156-60-5	trans-1,2-Dichloroethene	13	U	13	
78-87-5	1,2-Dichloropropane	13	U	13	
10061-01-5	cis-1,3-Dichloropropene	13	U	13	
10061-02-6	trans-1,3-Dichloropropene	13	U	13	
100-41-4	Ethylbenzene	13	U	13	
591-78-6	2-Hexanone	13	U	13	
75-09-2	Methylene Chloride	13	U	13	
108-10-1	4-Methyl-2-pentanone (MIBK)	13	U	13	
100-42-5	Styrene	13	U	13	
79-34-5	1,1,2,2-Tetrachloroethane	13	U	13	
127-18-4	Tetrachloroethene	13	U	13	
108-88-3	Toluene	13	U	13	
71-55-6	1,1,1-Trichloroethane	13	U	13	
79-00-5	1,1,2-Trichloroethane	13	U	13	
79-01-6	Trichloroethene	13	U	13	
75-01-4	Vinyl Chloride	13	U	13	
95-47-6	o-Xylene	13	U	13	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Collected: 10/22/13 1015
 Date Received: 10/23/13
 Date Analyzed: 11/3/13 22:48

Sample Name: SWS1SED-1013
 Lab Code: R1307945-007

Units: µg/Kg
 Basis: Dry
 Percent Solids: 37.8

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA7\DATA\110313\K6057.D\

Analysis Lot: 366431
 Instrument Name: R-MS-07
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	26	U	26	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	51-136	11/3/13 22:48	
Toluene-d8	102	66-138	11/3/13 22:48	
Dibromofluoromethane	88	63-138	11/3/13 22:48	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MH32-1013
 Lab Code: R1307945-008

Service Request: R1307945
 Date Collected: 10/22/13 1340
 Date Received: 10/23/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	NA	10/25/13 19:44	*
Solids, Total Dissolved	SM 2540 C	273		mg/L	14	1	NA	10/24/13 12:50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MH32-1013
 Lab Code: R1307945-008

Service Request: R1307945
 Date Collected: 10/22/13 1340
 Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:25	
Barium, Total	6010C	87		µg/L	20	1	10/30/13	11/8/13 10:25	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:25	
Calcium, Total	6010C	60800		µg/L	1000	1	10/30/13	11/8/13 10:25	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:25	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:52	
Iron, Total	6010C	14600		µg/L	100	1	10/30/13	11/8/13 10:25	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:25	
Magnesium, Total	6010C	15600		µg/L	1000	1	10/30/13	11/8/13 10:25	
Manganese, Total	6010C	2400		µg/L	10	1	10/30/13	11/8/13 10:25	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:25	
Potassium, Total	6010C	2200		µg/L	2000	1	10/30/13	11/8/13 10:25	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:25	
Sodium, Total	6010C	3900		µg/L	1000	1	10/30/13	11/8/13 10:25	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1340
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 19:01

Sample Name: MH32-1013
 Lab Code: R1307945-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3563.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	3300	E	5.0	
156-60-5	trans-1,2-Dichloroethene	92		5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	18		5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	61		5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	360	E	5.0	
75-01-4	Vinyl Chloride	190		5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1340
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 19:01

Sample Name: MH32-1013
 Lab Code: R1307945-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3563.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	12	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	11/1/13 19:01	
Toluene-d8	91	87-121	11/1/13 19:01	
Dibromofluoromethane	117	89-119	11/1/13 19:01	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1340
 Date Received: 10/23/13
 Date Analyzed: 11/4/13 18:02

Sample Name: MH32-1013
 Lab Code: R1307945-008
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3607.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 100

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	1000	U	1000	
71-43-2	Benzene	500	U	500	
75-27-4	Bromodichloromethane	500	U	500	
75-25-2	Bromoform	500	U	500	
74-83-9	Bromomethane	500	U	500	
78-93-3	2-Butanone (MEK)	1000	U	1000	
75-15-0	Carbon Disulfide	1000	U	1000	
56-23-5	Carbon Tetrachloride	500	U	500	
108-90-7	Chlorobenzene	500	U	500	
75-00-3	Chloroethane	500	U	500	
67-66-3	Chloroform	500	U	500	
74-87-3	Chloromethane	500	U	500	
124-48-1	Dibromochloromethane	500	U	500	
75-34-3	1,1-Dichloroethane	500	U	500	
106-93-4	1,2-Dibromoethane	500	U	500	
107-06-2	1,2-Dichloroethane	500	U	500	
75-35-4	1,1-Dichloroethene	500	U	500	
156-59-2	cis-1,2-Dichloroethene	6600	D	500	
156-60-5	trans-1,2-Dichloroethene	500	U	500	
78-87-5	1,2-Dichloropropane	500	U	500	
10061-01-5	cis-1,3-Dichloropropene	500	U	500	
10061-02-6	trans-1,3-Dichloropropene	500	U	500	
100-41-4	Ethylbenzene	500	U	500	
591-78-6	2-Hexanone	1000	U	1000	
75-09-2	Methylene Chloride	500	U	500	
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U	1000	
100-42-5	Styrene	500	U	500	
79-34-5	1,1,2,2-Tetrachloroethane	500	U	500	
127-18-4	Tetrachloroethene	500	U	500	
108-88-3	Toluene	500	U	500	
71-55-6	1,1,1-Trichloroethane	500	U	500	
79-00-5	1,1,2-Trichloroethane	500	U	500	
79-01-6	Trichloroethene	500	U	500	
75-01-4	Vinyl Chloride	500	U	500	
95-47-6	o-Xylene	500	U	500	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1340
 Date Received: 10/23/13
 Date Analyzed: 11/4/13 18:02

Sample Name: MH32-1013
 Lab Code: R1307945-008
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3607.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 100

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	500 U	500	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	11/4/13 18:02	
Toluene-d8	94	87-121	11/4/13 18:02	
Dibromofluoromethane	112	89-119	11/4/13 18:02	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MH33-1013
 Lab Code: R1307945-009

Service Request: R1307945
 Date Collected: 10/22/13 1410
 Date Received: 10/23/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	NA	10/25/13 19:56	*
Solids, Total Dissolved	SM 2540 C	253		mg/L	10	1	NA	10/24/13 12:50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MH33-1013
 Lab Code: R1307945-009

Service Request: R1307945
 Date Collected: 10/22/13 1410
 Date Received: 10/23/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:31	
Barium, Total	6010C	48		µg/L	20	1	10/30/13	11/8/13 10:31	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:31	
Calcium, Total	6010C	60800		µg/L	1000	1	10/30/13	11/8/13 10:31	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:31	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:58	
Iron, Total	6010C	3790		µg/L	100	1	10/30/13	11/8/13 10:31	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:31	
Magnesium, Total	6010C	15000		µg/L	1000	1	10/30/13	11/8/13 10:31	
Manganese, Total	6010C	918		µg/L	10	1	10/30/13	11/8/13 10:31	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:31	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 10:31	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:31	
Sodium, Total	6010C	3900		µg/L	1000	1	10/30/13	11/8/13 10:31	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 1410
 Date Received: 10/23/13
 Date Analyzed: 11/4/13 16:58

Sample Name: MH33-1013
 Lab Code: R1307945-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110413\F3605.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	25		5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	14		5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13 14:10
 Date Received: 10/23/13
 Date Analyzed: 11/4/13 16:58

Sample Name: MH33-1013
 Lab Code: R1307945-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3605.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85-122	11/4/13 16:58	
Toluene-d8	94	87-121	11/4/13 16:58	
Dibromofluoromethane	113	89-119	11/4/13 16:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 20:05

Sample Name: TRIP BLANK
 Lab Code: R1307945-010

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3565.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/22/13
 Date Received: 10/23/13
 Date Analyzed: 11/1/13 20:05

Sample Name: TRIP BLANK
 Lab Code: R1307945-010

Units: µg/L
 Basis: NA

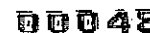
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3565.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85-122	11/1/13 20:05	
Toluene-d8	92	87-121	11/1/13 20:05	
Dibromofluoromethane	116	89-119	11/1/13 20:05	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW11S-1013
 Lab Code: R1307945-011

Service Request: R1307945
 Date Collected: 10/23/13 0905
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:50	
Barium, Total	6010C	27		µg/L	20	1	10/30/13	11/8/13 10:50	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:50	
Calcium, Total	6010C	54800		µg/L	1000	1	10/30/13	11/8/13 10:50	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:50	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 19:17	
Iron, Total	6010C	130		µg/L	100	1	10/30/13	11/8/13 10:50	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:50	
Magnesium, Total	6010C	35600		µg/L	1000	1	10/30/13	11/8/13 10:50	
Manganese, Total	6010C	1150		µg/L	10	1	10/30/13	11/8/13 10:50	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:50	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 10:50	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:50	
Sodium, Total	6010C	19700		µg/L	1000	1	10/30/13	11/8/13 10:50	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 0905
 Date Received: 10/25/13
 Date Analyzed: 11/1/13 20:36

Sample Name: MW11S-1013
 Lab Code: R1307945-011

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3566.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	250 U	250	
71-43-2	Benzene	130 U	130	
75-27-4	Bromodichloromethane	130 U	130	
75-25-2	Bromoform	130 U	130	
74-83-9	Bromomethane	130 U	130	
78-93-3	2-Butanone (MEK)	250 U	250	
75-15-0	Carbon Disulfide	250 U	250	
56-23-5	Carbon Tetrachloride	130 U	130	
108-90-7	Chlorobenzene	130 U	130	
75-00-3	Chloroethane	130 U	130	
67-66-3	Chloroform	130 U	130	
74-87-3	Chloromethane	130 U	130	
124-48-1	Dibromochloromethane	130 U	130	
75-34-3	1,1-Dichloroethane	130 U	130	
106-93-4	1,2-Dibromoethane	130 U	130	
107-06-2	1,2-Dichloroethane	130 U	130	
75-35-4	1,1-Dichloroethene	130 U	130	
156-59-2	cis-1,2-Dichloroethene	400	130	
156-60-5	trans-1,2-Dichloroethene	130 U	130	
78-87-5	1,2-Dichloropropane	130 U	130	
10061-01-5	cis-1,3-Dichloropropene	130 U	130	
10061-02-6	trans-1,3-Dichloropropene	130 U	130	
100-41-4	Ethylbenzene	130 U	130	
591-78-6	2-Hexanone	250 U	250	
75-09-2	Methylene Chloride	130 U	130	
108-10-1	4-Methyl-2-pentanone (MIBK)	250 U	250	
100-42-5	Styrene	130 U	130	
79-34-5	1,1,2,2-Tetrachloroethane	130 U	130	
127-18-4	Tetrachloroethene	130 U	130	
108-88-3	Toluene	130 U	130	
71-55-6	1,1,1-Trichloroethane	130 U	130	
79-00-5	1,1,2-Trichloroethane	130 U	130	
79-01-6	Trichloroethene	3600	130	
75-01-4	Vinyl Chloride	130 U	130	
95-47-6	o-Xylene	130 U	130	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 0905
 Date Received: 10/25/13
 Date Analyzed: 11/1/13 20:36

Sample Name: MW11S-1013
 Lab Code: R1307945-011

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3566.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	130 U	130	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	11/1/13 20:36	
Toluene-d8	95	87-121	11/1/13 20:36	
Dibromofluoromethane	119	89-119	11/1/13 20:36	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: DUP1-1013
 Lab Code: R1307945-012

Service Request: R1307945
 Date Collected: 10/23/13 0920
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:56	
Barium, Total	6010C	26		µg/L	20	1	10/30/13	11/8/13 10:56	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:56	
Calcium, Total	6010C	55400		µg/L	1000	1	10/30/13	11/8/13 10:56	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:56	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 19:23	
Iron, Total	6010C	130		µg/L	100	1	10/30/13	11/8/13 10:56	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 10:56	
Magnesium, Total	6010C	35900		µg/L	1000	1	10/30/13	11/8/13 10:56	
Manganese, Total	6010C	1170		µg/L	10	1	10/30/13	11/8/13 10:56	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 10:56	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 10:56	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 10:56	
Sodium, Total	6010C	19700		µg/L	1000	1	10/30/13	11/8/13 10:56	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 10:56	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 0920
 Date Received: 10/25/13
 Date Analyzed: 11/2/13 20:19

Sample Name: DUP1-1013
 Lab Code: R1307945-012

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110213\F3586.D\

Analysis Lot: 366394
 Instrument Name: R-MS-10
 Dilution Factor: 25

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	250	U	250	
71-43-2	Benzene	130	U	130	
75-27-4	Bromodichloromethane	130	U	130	
75-25-2	Bromoform	130	U	130	
74-83-9	Bromomethane	130	U	130	
78-93-3	2-Butanone (MEK)	250	U	250	
75-15-0	Carbon Disulfide	250	U	250	
56-23-5	Carbon Tetrachloride	130	U	130	
108-90-7	Chlorobenzene	130	U	130	
75-00-3	Chloroethane	130	U	130	
67-66-3	Chloroform	130	U	130	
74-87-3	Chloromethane	130	U	130	
124-48-1	Dibromochloromethane	130	U	130	
75-34-3	1,1-Dichloroethane	130	U	130	
106-93-4	1,2-Dibromoethane	130	U	130	
107-06-2	1,2-Dichloroethane	130	U	130	
75-35-4	1,1-Dichloroethene	130	U	130	
156-59-2	cis-1,2-Dichloroethene	340		130	
156-60-5	trans-1,2-Dichloroethene	130	U	130	
78-87-5	1,2-Dichloropropane	130	U	130	
10061-01-5	cis-1,3-Dichloropropene	130	U	130	
10061-02-6	trans-1,3-Dichloropropene	130	U	130	
100-41-4	Ethylbenzene	130	U	130	
591-78-6	2-Hexanone	250	U	250	
75-09-2	Methylene Chloride	130	U	130	
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250	
100-42-5	Styrene	130	U	130	
79-34-5	1,1,2,2-Tetrachloroethane	130	U	130	
127-18-4	Tetrachloroethene	130	U	130	
108-88-3	Toluene	130	U	130	
71-55-6	1,1,1-Trichloroethane	130	U	130	
79-00-5	1,1,2-Trichloroethane	130	U	130	
79-01-6	Trichloroethene	3300		130	
75-01-4	Vinyl Chloride	130	U	130	
95-47-6	o-Xylene	130	U	130	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 0920
 Date Received: 10/25/13
 Date Analyzed: 11/2/13 20:19

Sample Name: DUP1-1013
 Lab Code: R1307945-012

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110213\F3586.D\

Analysis Lot: 366394
 Instrument Name: R-MS-10
 Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	130 U	130	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	11/2/13 20:19	
Toluene-d8	96	87-121	11/2/13 20:19	
Dibromofluoromethane	117	89-119	11/2/13 20:19	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW18S-1013
 Lab Code: R1307945-013

Service Request: R1307945
 Date Collected: 10/23/13 1045
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:02	
Barium, Total	6010C	37		µg/L	20	1	10/30/13	11/8/13 11:02	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:02	
Calcium, Total	6010C	28000		µg/L	1000	1	10/30/13	11/8/13 11:02	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:02	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 19:29	
Iron, Total	6010C	1140		µg/L	100	1	10/30/13	11/8/13 11:02	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:02	
Magnesium, Total	6010C	13800		µg/L	1000	1	10/30/13	11/8/13 11:02	
Manganese, Total	6010C	301		µg/L	10	1	10/30/13	11/8/13 11:02	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 11:02	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 11:02	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:02	
Sodium, Total	6010C	6600		µg/L	1000	1	10/30/13	11/8/13 11:02	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 11:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1045
 Date Received: 10/25/13
 Date Analyzed: 11/4/13 18:33

Sample Name: MW18S-1013
 Lab Code: R1307945-013

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\msvoal0\data\110413\F3608.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	7.5		5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1045
 Date Received: 10/25/13
 Date Analyzed: 11/4/13 18:33

Sample Name: MW18S-1013
 Lab Code: R1307945-013

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3608.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	11/4/13 18:33	
Toluene-d8	93	87-121	11/4/13 18:33	
Dibromofluoromethane	110	89-119	11/4/13 18:33	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW17D-1013
 Lab Code: R1307945-014

Service Request: R1307945
 Date Collected: 10/23/13 1405
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:09	
Barium, Total	6010C	22		µg/L	20	1	10/30/13	11/8/13 11:09	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:09	
Calcium, Total	6010C	55300		µg/L	1000	1	10/30/13	11/8/13 11:09	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:09	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 19:36	
Iron, Total	6010C	7580		µg/L	100	1	10/30/13	11/8/13 11:09	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:09	
Magnesium, Total	6010C	22300		µg/L	1000	1	10/30/13	11/8/13 11:09	
Manganese, Total	6010C	967		µg/L	10	1	10/30/13	11/8/13 11:09	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 11:09	
Potassium, Total	6010C	2600		µg/L	2000	1	10/30/13	11/8/13 11:09	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:09	
Sodium, Total	6010C	27900		µg/L	1000	1	10/30/13	11/8/13 11:09	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 11:09	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1405
 Date Received: 10/25/13
 Date Analyzed: 11/4/13 19:05

Sample Name: MW17D-1013
 Lab Code: R1307945-014

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110413\F3609.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1405
 Date Received: 10/25/13
 Date Analyzed: 11/4/13 19:05

Sample Name: MW17D-1013
 Lab Code: R1307945-014

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3609.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	11/4/13 19:05	
Toluene-d8	87	87-121	11/4/13 19:05	
Dibromofluoromethane	111	89-119	11/4/13 19:05	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW18D-1013
 Lab Code: R1307945-015

Service Request: R1307945
 Date Collected: 10/23/13 1220
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:15	
Barium, Total	6010C	46		µg/L	20	1	10/30/13	11/8/13 11:15	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:15	
Calcium, Total	6010C	21900		µg/L	1000	1	10/30/13	11/8/13 11:15	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:15	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 19:42	
Iron, Total	6010C	3990		µg/L	100	1	10/30/13	11/8/13 11:15	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:15	
Magnesium, Total	6010C	17000		µg/L	1000	1	10/30/13	11/8/13 11:15	
Manganese, Total	6010C	412		µg/L	10	1	10/30/13	11/8/13 11:15	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 11:15	
Potassium, Total	6010C	2700		µg/L	2000	1	10/30/13	11/8/13 11:15	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:15	
Sodium, Total	6010C	21300		µg/L	1000	1	10/30/13	11/8/13 11:15	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 11:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1220
 Date Received: 10/25/13
 Date Analyzed: 11/6/13 15:37

Sample Name: MW18D-1013
 Lab Code: R1307945-015

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110613\F3693.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1220
 Date Received: 10/25/13
 Date Analyzed: 11/6/13 15:37

Sample Name: MW18D-1013
 Lab Code: R1307945-015

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110613\F3693.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	11/6/13 15:37	
Toluene-d8	91	87-121	11/6/13 15:37	
Dibromofluoromethane	116	89-119	11/6/13 15:37	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW17S-1013
 Lab Code: R1307945-016

Service Request: R1307945
 Date Collected: 10/23/13 1415
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:46	
Barium, Total	6010C	46		µg/L	20	1	10/30/13	11/8/13 11:46	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:46	
Calcium, Total	6010C	88900		µg/L	1000	1	10/30/13	11/8/13 11:46	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:46	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 20:13	
Iron, Total	6010C	2770		µg/L	100	1	10/30/13	11/8/13 11:46	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 11:46	
Magnesium, Total	6010C	64600		µg/L	1000	1	10/30/13	11/8/13 11:46	
Manganese, Total	6010C	1170		µg/L	10	1	10/30/13	11/8/13 11:46	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 11:46	
Potassium, Total	6010C	3800		µg/L	2000	1	10/30/13	11/8/13 11:46	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 11:46	
Sodium, Total	6010C	64600		µg/L	1000	1	10/30/13	11/8/13 11:46	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 11:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1415
 Date Received: 10/25/13
 Date Analyzed: 11/4/13 19:37

Sample Name: MW17S-1013
 Lab Code: R1307945-016

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110413\F3610.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	2900	E	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	280	E	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	64		5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	16		5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1415
 Date Received: 10/25/13
 Date Analyzed: 11/4/13 19:37

Sample Name: MW17S-1013
 Lab Code: R1307945-016

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110413\F3610.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	11/4/13 19:37	
Toluene-d8	91	87-121	11/4/13 19:37	
Dibromofluoromethane	117	89-119	11/4/13 19:37	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1415
 Date Received: 10/25/13
 Date Analyzed: 11/6/13 16:07

Sample Name: MW17S-1013
 Lab Code: R1307945-016
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110613\F3694.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 25

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	3900	D	250	
71-43-2	Benzene	130	U	130	
75-27-4	Bromodichloromethane	130	U	130	
75-25-2	Bromoform	130	U	130	
74-83-9	Bromomethane	130	U	130	
78-93-3	2-Butanone (MEK)	290	D	250	
75-15-0	Carbon Disulfide	250	U	250	
56-23-5	Carbon Tetrachloride	130	U	130	
108-90-7	Chlorobenzene	130	U	130	
75-00-3	Chloroethane	130	U	130	
67-66-3	Chloroform	130	U	130	
74-87-3	Chloromethane	130	U	130	
124-48-1	Dibromochloromethane	130	U	130	
75-34-3	1,1-Dichloroethane	130	U	130	
106-93-4	1,2-Dibromoethane	130	U	130	
107-06-2	1,2-Dichloroethane	130	U	130	
75-35-4	1,1-Dichloroethene	130	U	130	
156-59-2	cis-1,2-Dichloroethene	130	U	130	
156-60-5	trans-1,2-Dichloroethene	130	U	130	
78-87-5	1,2-Dichloropropane	130	U	130	
10061-01-5	cis-1,3-Dichloropropene	130	U	130	
10061-02-6	trans-1,3-Dichloropropene	130	U	130	
100-41-4	Ethylbenzene	130	U	130	
591-78-6	2-Hexanone	250	U	250	
75-09-2	Methylene Chloride	130	U	130	
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250	
100-42-5	Styrene	130	U	130	
79-34-5	1,1,2,2-Tetrachloroethane	130	U	130	
127-18-4	Tetrachloroethene	130	U	130	
108-88-3	Toluene	130	U	130	
71-55-6	1,1,1-Trichloroethane	130	U	130	
79-00-5	1,1,2-Trichloroethane	130	U	130	
79-01-6	Trichloroethene	130	U	130	
75-01-4	Vinyl Chloride	130	U	130	
95-47-6	o-Xylene	130	U	130	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1415
 Date Received: 10/25/13
 Date Analyzed: 11/6/13 16:07

Sample Name: MW17S-1013
 Lab Code: R1307945-016
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110613\F3694.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	130 U	130	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85-122	11/6/13 16:07	
Toluene-d8	95	87-121	11/6/13 16:07	
Dibromofluoromethane	115	89-119	11/6/13 16:07	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: LS1-1013
 Lab Code: R1307945-017

Service Request: R1307945
 Date Collected: 10/23/13 1445
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:05	
Barium, Total	6010C	77		µg/L	20	1	10/30/13	11/8/13 12:05	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:05	
Calcium, Total	6010C	83700		µg/L	1000	1	10/30/13	11/8/13 12:05	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:05	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 20:32	
Iron, Total	6010C	2700		µg/L	100	1	10/30/13	11/8/13 12:05	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:05	
Magnesium, Total	6010C	21700		µg/L	1000	1	10/30/13	11/8/13 12:05	
Manganese, Total	6010C	1790		µg/L	10	1	10/30/13	11/8/13 12:05	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 12:05	
Potassium, Total	6010C	3100		µg/L	2000	1	10/30/13	11/8/13 12:05	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:05	
Sodium, Total	6010C	12600		µg/L	1000	1	10/30/13	11/8/13 12:05	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 12:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1445
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 18:11

Sample Name: LS1-1013
 Lab Code: R1307945-017

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\msvoa10\data\110513\F3652.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	52		5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1445
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 18:11

Sample Name: LS1-1013
 Lab Code: R1307945-017

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110513\F3652.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	11/5/13 18:11	
Toluene-d8	92	87-121	11/5/13 18:11	
Dibromofluoromethane	112	89-119	11/5/13 18:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW3D-1013
 Lab Code: R1307945-018

Service Request: R1307945
 Date Collected: 10/23/13 1010
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:11	
Barium, Total	6010C	85		µg/L	20	1	10/30/13	11/8/13 12:11	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:11	
Calcium, Total	6010C	48200		µg/L	1000	1	10/30/13	11/8/13 12:11	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:11	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 20:38	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/8/13 12:11	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:11	
Magnesium, Total	6010C	27100		µg/L	1000	1	10/30/13	11/8/13 12:11	
Manganese, Total	6010C	12		µg/L	10	1	10/30/13	11/8/13 12:11	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 12:11	
Potassium, Total	6010C	3000		µg/L	2000	1	10/30/13	11/8/13 12:11	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:11	
Sodium, Total	6010C	16700		µg/L	1000	1	10/30/13	11/8/13 12:11	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 12:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1010
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 18:41

Sample Name: MW3D-1013
 Lab Code: R1307945-018

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110513\F3653.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	12	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1010
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 18:41

Sample Name: MW3D-1013
 Lab Code: R1307945-018

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110513\F3653.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	11/5/13 18:41	
Toluene-d8	96	87-121	11/5/13 18:41	
Dibromofluoromethane	114	89-119	11/5/13 18:41	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW3S-1013
 Lab Code: R1307945-019

Service Request: R1307945
 Date Collected: 10/23/13 12:15
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:18	
Barium, Total	6010C	41		µg/L	20	1	10/30/13	11/8/13 12:18	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:18	
Calcium, Total	6010C	40400		µg/L	1000	1	10/30/13	11/8/13 12:18	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:18	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 20:44	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/8/13 12:18	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:18	
Magnesium, Total	6010C	32000		µg/L	1000	1	10/30/13	11/8/13 12:18	
Manganese, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:18	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 12:18	
Potassium, Total	6010C	2600		µg/L	2000	1	10/30/13	11/8/13 12:18	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:18	
Sodium, Total	6010C	33400		µg/L	1000	1	10/30/13	11/8/13 12:18	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 12:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 12:15
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 19:11

Sample Name: MW3S-1013
 Lab Code: R1307945-019

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110513\F3654.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: . On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 12:15
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 19:11

Sample Name: MW3S-1013
 Lab Code: R1307945-019

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110513\F3654.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	11/5/13 19:11	
Toluene-d8	94	87-121	11/5/13 19:11	
Dibromofluoromethane	117	89-119	11/5/13 19:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Water
Sample Name: MW4D-1013
Lab Code: R1307945-020

Service Request: R1307945
Date Collected: 10/23/13 1415
Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:24	
Barium, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 12:24	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:24	
Calcium, Total	6010C	18600		µg/L	1000	1	10/30/13	11/8/13 12:24	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:24	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 20:51	
Iron, Total	6010C	410		µg/L	100	1	10/30/13	11/8/13 12:24	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:24	
Magnesium, Total	6010C	19100		µg/L	1000	1	10/30/13	11/8/13 12:24	
Manganese, Total	6010C	520		µg/L	10	1	10/30/13	11/8/13 12:24	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 12:24	
Potassium, Total	6010C	3200		µg/L	2000	1	10/30/13	11/8/13 12:24	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:24	
Sodium, Total	6010C	7300		µg/L	1000	1	10/30/13	11/8/13 12:24	
Zinc, Total	6010C	56		µg/L	20	1	10/30/13	11/8/13 12:24	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1415
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 19:41

Sample Name: MW4D-1013
 Lab Code: R1307945-020

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110513\F3655.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 2.5

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	25 U	25	
71-43-2	Benzene	13 U	13	
75-27-4	Bromodichloromethane	13 U	13	
75-25-2	Bromoform	13 U	13	
74-83-9	Bromomethane	13 U	13	
78-93-3	2-Butanone (MEK)	25 U	25	
75-15-0	Carbon Disulfide	25 U	25	
56-23-5	Carbon Tetrachloride	13 U	13	
108-90-7	Chlorobenzene	13 U	13	
75-00-3	Chloroethane	13 U	13	
67-66-3	Chloroform	13 U	13	
74-87-3	Chloromethane	13 U	13	
124-48-1	Dibromochloromethane	13 U	13	
75-34-3	1,1-Dichloroethane	13 U	13	
106-93-4	1,2-Dibromoethane	13 U	13	
107-06-2	1,2-Dichloroethane	13 U	13	
75-35-4	1,1-Dichloroethene	13 U	13	
156-59-2	cis-1,2-Dichloroethene	300	13	
156-60-5	trans-1,2-Dichloroethene	13 U	13	
78-87-5	1,2-Dichloropropane	13 U	13	
10061-01-5	cis-1,3-Dichloropropene	13 U	13	
10061-02-6	trans-1,3-Dichloropropene	13 U	13	
100-41-4	Ethylbenzene	13 U	13	
591-78-6	2-Hexanone	25 U	25	
75-09-2	Methylene Chloride	13 U	13	
108-10-1	4-Methyl-2-pentanone (MIBK)	25 U	25	
100-42-5	Styrene	13 U	13	
79-34-5	1,1,2,2-Tetrachloroethane	13 U	13	
127-18-4	Tetrachloroethene	13 U	13	
108-88-3	Toluene	13 U	13	
71-55-6	1,1,1-Trichloroethane	13 U	13	
79-00-5	1,1,2-Trichloroethane	13 U	13	
79-01-6	Trichloroethene	13 U	13	
75-01-4	Vinyl Chloride	61	13	
95-47-6	o-Xylene	13 U	13	

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1415
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 19:41

Sample Name: MW4D-1013
 Lab Code: R1307945-020

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110513\F3655.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 2.5

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	13	U	13	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	11/5/13 19:41	
Toluene-d8	96	87-121	11/5/13 19:41	
Dibromofluoromethane	119	89-119	11/5/13 19:41	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW15S-1013
 Lab Code: R1307945-021

Service Request: R1307945
 Date Collected: 10/23/13 1510
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:30	
Barium, Total	6010C	22		µg/L	20	1	10/30/13	11/8/13 12:30	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:30	
Calcium, Total	6010C	2800		µg/L	1000	1	10/30/13	11/8/13 12:30	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:30	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 20:57	
Iron, Total	6010C	140		µg/L	100	1	10/30/13	11/8/13 12:30	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:30	
Magnesium, Total	6010C	2200		µg/L	1000	1	10/30/13	11/8/13 12:30	
Manganese, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:30	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 12:30	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 12:30	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:30	
Sodium, Total	6010C	1800		µg/L	1000	1	10/30/13	11/8/13 12:30	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 12:30	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1510
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 20:10

Sample Name: MW15S-1013
 Lab Code: R1307945-021

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110513\F3656.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	31		5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	16		5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13 1510
 Date Received: 10/25/13
 Date Analyzed: 11/5/13 20:10

Sample Name: MW15S-1013
 Lab Code: R1307945-021

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110513\F3656.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	11/5/13 20:10	
Toluene-d8	95	87-121	11/5/13 20:10	
Dibromofluoromethane	115	89-119	11/5/13 20:10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: EB1-1013
 Lab Code: R1307945-022

Service Request: R1307945
 Date Collected: 10/24/13 0845
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:36	
Barium, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 12:36	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:36	
Calcium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/8/13 12:36	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:36	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 21:03	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/8/13 12:36	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 12:36	
Magnesium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/8/13 12:36	
Manganese, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:36	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 12:36	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 12:36	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 12:36	
Sodium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/8/13 12:36	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 12:36	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/24/13 0845
 Date Received: 10/25/13
 Date Analyzed: 11/6/13 15:07

Sample Name: EB1-1013
 Lab Code: R1307945-022

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\msvoa10\data\110613\F3692.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	20	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/24/13 0845
 Date Received: 10/25/13
 Date Analyzed: 11/6/13 15:07

Sample Name: EB1-1013
 Lab Code: R1307945-022

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110613\F3692.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	11/6/13 15:07	
Toluene-d8	94	87-121	11/6/13 15:07	
Dibromofluoromethane	112	89-119	11/6/13 15:07	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MWSS-1013
 Lab Code: R1307945-023

Service Request: R1307945
 Date Collected: 10/24/13 1115
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:43	
Barium, Total	6010C	26		µg/L	20	1	10/30/13	11/1/13 18:43	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/1/13 18:43	
Calcium, Total	6010C	21800		µg/L	1000	1	10/30/13	11/1/13 18:43	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:43	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/1/13 18:43	
Iron, Total	6010C	1800		µg/L	100	1	10/30/13	11/1/13 18:43	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/1/13 18:43	
Magnesium, Total	6010C	9700		µg/L	1000	1	10/30/13	11/1/13 18:43	
Manganese, Total	6010C	312		µg/L	10	1	10/30/13	11/1/13 18:43	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/1/13 18:43	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/1/13 18:43	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:43	
Sodium, Total	6010C	4900		µg/L	1000	1	10/30/13	11/1/13 18:43	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/1/13 18:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/24/13 1115
 Date Received: 10/25/13
 Date Analyzed: 11/7/13 12:48

Sample Name: MW5S-1013
 Lab Code: R1307945-023

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA8\DATA\110713\C2450.D\

Analysis Lot: 367216
 Instrument Name: R-MS-08
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	98		5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	6.7		5.0	
75-01-4	Vinyl Chloride	11		5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/24/13 1115
 Date Received: 10/25/13
 Date Analyzed: 11/7/13 12:48

Sample Name: MW5S-1013
 Lab Code: R1307945-023

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA8\DATA\110713\C2450.D\

Analysis Lot: 367216
 Instrument Name: R-MS-08
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	11/7/13 12:48	
Toluene-d8	99	87-121	11/7/13 12:48	
Dibromofluoromethane	97	89-119	11/7/13 12:48	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: MW5D-1013
 Lab Code: R1307945-024

Service Request: R1307945
 Date Collected: 10/24/13 1235
 Date Received: 10/25/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:49	
Barium, Total	6010C	43		µg/L	20	1	10/30/13	11/1/13 18:49	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/1/13 18:49	
Calcium, Total	6010C	20300		µg/L	1000	1	10/30/13	11/1/13 18:49	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:49	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/1/13 18:49	
Iron, Total	6010C	880		µg/L	100	1	10/30/13	11/1/13 18:49	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/1/13 18:49	
Magnesium, Total	6010C	11000		µg/L	1000	1	10/30/13	11/1/13 18:49	
Manganese, Total	6010C	645		µg/L	10	1	10/30/13	11/1/13 18:49	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/1/13 18:49	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/1/13 18:49	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:49	
Sodium, Total	6010C	5200		µg/L	1000	1	10/30/13	11/1/13 18:49	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/1/13 18:49	



Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/24/13 1235
 Date Received: 10/25/13
 Date Analyzed: 11/7/13 13:15

Sample Name: MW5D-1013
 Lab Code: R1307945-024

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA8\DATA\110713\C2451.D\

Analysis Lot: 367216
 Instrument Name: R-MS-08
 Dilution Factor: 2

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
71-43-2	Benzene	10	U	10	
75-27-4	Bromodichloromethane	10	U	10	
75-25-2	Bromoform	10	U	10	
74-83-9	Bromomethane	10	U	10	
78-93-3	2-Butanone (MEK)	20	U	20	
75-15-0	Carbon Disulfide	20	U	20	
56-23-5	Carbon Tetrachloride	10	U	10	
108-90-7	Chlorobenzene	10	U	10	
75-00-3	Chloroethane	10	U	10	
67-66-3	Chloroform	10	U	10	
74-87-3	Chloromethane	10	U	10	
124-48-1	Dibromochloromethane	10	U	10	
75-34-3	1,1-Dichloroethane	10	U	10	
106-93-4	1,2-Dibromoethane	10	U	10	
107-06-2	1,2-Dichloroethane	10	U	10	
75-35-4	1,1-Dichloroethene	10	U	10	
156-59-2	cis-1,2-Dichloroethene	230		10	
156-60-5	trans-1,2-Dichloroethene	10	U	10	
78-87-5	1,2-Dichloropropane	10	U	10	
10061-01-5	cis-1,3-Dichloropropene	10	U	10	
10061-02-6	trans-1,3-Dichloropropene	10	U	10	
100-41-4	Ethylbenzene	10	U	10	
591-78-6	2-Hexanone	20	U	20	
75-09-2	Methylene Chloride	10	U	10	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	
100-42-5	Styrene	10	U	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	
127-18-4	Tetrachloroethene	10	U	10	
108-88-3	Toluene	10	U	10	
71-55-6	1,1,1-Trichloroethane	10	U	10	
79-00-5	1,1,2-Trichloroethane	10	U	10	
79-01-6	Trichloroethene	17		10	
75-01-4	Vinyl Chloride	24		10	
95-47-6	o-Xylene	10	U	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/24/13 1235
 Date Received: 10/25/13
 Date Analyzed: 11/7/13 13:15

Sample Name: MW5D-1013
 Lab Code: R1307945-024

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA8\DATA\110713\C2451.D\

Analysis Lot: 367216
 Instrument Name: R-MS-08
 Dilution Factor: 2

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	10	U	10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	11/7/13 13:15	
Toluene-d8	96	87-121	11/7/13 13:15	
Dibromofluoromethane	95	89-119	11/7/13 13:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0815
 Date Received: 10/26/13
 Date Analyzed: 10/30/13 16:36

Sample Name: WAL19PRE-1013
 Lab Code: R1307945-025

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\103013\L1264.D\

Analysis Lot: 365817
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-43-2	Benzene	0.50	U	0.50	
108-86-1	Bromobenzene	0.50	U	0.50	
74-97-5	Bromochloromethane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-65-0	tert-Butyl Alcohol	20	U	20	
1634-04-4	Methyl tert-Butyl Ether	0.50	U	0.50	
98-06-6	tert-Butylbenzene	0.50	U	0.50	
135-98-8	sec-Butylbenzene	0.50	U	0.50	
104-51-8	n-Butylbenzene	0.50	U	0.50	
56-23-5	Carbon Tetrachloride	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
95-49-8	2-Chlorotoluene	0.50	U	0.50	
106-43-4	4-Chlorotoluene	0.50	U	0.50	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
74-95-3	Dibromomethane	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	2.5		0.50	
594-20-7	2,2-Dichloropropane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
142-28-9	1,3-Dichloropropane	0.50	U	0.50	
563-58-6	1,1-Dichloropropene	0.50	U	0.50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0815
 Date Received: 10/26/13
 Date Analyzed: 10/30/13 16:36

Sample Name: WAL19PRE-1013
 Lab Code: R1307945-025

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQU\DATA\MSVOA6\DATA\103013\L1264.D\

Analysis Lot: 365817
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
99-87-6	p-Isopropyltoluene	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
91-20-3	Naphthalene	0.50	U	0.50	
103-65-1	n-Propylbenzene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
108-88-3	Toluene	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	2.4		0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	
75-01-4	Vinyl Chloride	0.50	U	0.50	
179601-23-1	m,p-Xylenes	1.0	U	1.0	
95-47-6	o-Xylene	0.50	U	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	70-130	10/30/13 16:36	
1,2-Dichlorobenzene-d4	100	70-130	10/30/13 16:36	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0810
 Date Received: 10/26/13
 Date Analyzed: 10/30/13 16:00

Sample Name: WAL19INTER-1013
 Lab Code: R1307945-026

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\103013\1263.D\

Analysis Lot: 365817
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
71-43-2	Benzene	0.50 U	0.50	
108-86-1	Bromobenzene	0.50 U	0.50	
74-97-5	Bromochloromethane	0.50 U	0.50	
75-27-4	Bromodichloromethane	0.50 U	0.50	
75-25-2	Bromoform	0.50 U	0.50	
74-83-9	Bromomethane	0.50 U	0.50	
75-65-0	tert-Butyl Alcohol	20 U	20	
1634-04-4	Methyl tert-Butyl Ether	0.50 U	0.50	
98-06-6	tert-Butylbenzene	0.50 U	0.50	
135-98-8	sec-Butylbenzene	0.50 U	0.50	
104-51-8	n-Butylbenzene	0.50 U	0.50	
56-23-5	Carbon Tetrachloride	0.50 U	0.50	
108-90-7	Chlorobenzene	0.50 U	0.50	
75-00-3	Chloroethane	0.50 U	0.50	
67-66-3	Chloroform	0.50 U	0.50	
74-87-3	Chloromethane	0.50 U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	0.50	
95-49-8	2-Chlorotoluene	0.50 U	0.50	
106-43-4	4-Chlorotoluene	0.50 U	0.50	
124-48-1	Dibromochloromethane	0.50 U	0.50	
106-93-4	1,2-Dibromoethane	0.50 U	0.50	
74-95-3	Dibromomethane	0.50 U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50 U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50 U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50 U	0.50	
75-71-8	Dichlorodifluoromethane	0.50 U	0.50	
75-34-3	1,1-Dichloroethane	0.50 U	0.50	
107-06-2	1,2-Dichloroethane	0.50 U	0.50	
75-35-4	1,1-Dichloroethene	0.50 U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50 U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50 U	0.50	
594-20-7	2,2-Dichloropropane	0.50 U	0.50	
78-87-5	1,2-Dichloropropane	0.50 U	0.50	
142-28-9	1,3-Dichloropropane	0.50 U	0.50	
563-58-6	1,1-Dichloropropene	0.50 U	0.50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0810
 Date Received: 10/26/13
 Date Analyzed: 10/30/13 16:00

Sample Name: WAL19INTER-1013
 Lab Code: R1307945-026

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQU\DATA\MSVOA6\DATA\103013\L1263.D\

Analysis Lot: 365817
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
99-87-6	p-Isopropyltoluene	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
91-20-3	Naphthalene	0.50	U	0.50	
103-65-1	n-Propylbenzene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
108-88-3	Toluene	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	
75-01-4	Vinyl Chloride	0.50	U	0.50	
179601-23-1	m,p-Xylenes	1.0	U	1.0	
95-47-6	o-Xylene	0.50	U	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	70-130	10/30/13 16:00	
1,2-Dichlorobenzene-d4	102	70-130	10/30/13 16:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0805
 Date Received: 10/26/13
 Date Analyzed: 10/29/13 20:02

Sample Name: WAL19POST-1013
 Lab Code: R1307945-027

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\102913\L1247.D\

Analysis Lot: 365815
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
71-43-2	Benzene	0.50 U	0.50	
108-86-1	Bromobenzene	0.50 U	0.50	
74-97-5	Bromochloromethane	0.50 U	0.50	
75-27-4	Bromodichloromethane	0.50 U	0.50	
75-25-2	Bromoform	0.50 U	0.50	
74-83-9	Bromomethane	0.50 U	0.50	
75-65-0	tert-Butyl Alcohol	20 U	20	
1634-04-4	Methyl tert-Butyl Ether	0.50 U	0.50	
98-06-6	tert-Butylbenzene	0.50 U	0.50	
135-98-8	sec-Butylbenzene	0.50 U	0.50	
104-51-8	n-Butylbenzene	0.50 U	0.50	
56-23-5	Carbon Tetrachloride	0.50 U	0.50	
108-90-7	Chlorobenzene	0.50 U	0.50	
75-00-3	Chloroethane	0.50 U	0.50	
67-66-3	Chloroform	0.50 U	0.50	
74-87-3	Chloromethane	0.50 U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	0.50	
95-49-8	2-Chlorotoluene	0.50 U	0.50	
106-43-4	4-Chlorotoluene	0.50 U	0.50	
124-48-1	Dibromochloromethane	0.50 U	0.50	
106-93-4	1,2-Dibromoethane	0.50 U	0.50	
74-95-3	Dibromomethane	0.50 U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50 U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50 U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50 U	0.50	
75-71-8	Dichlorodifluoromethane	0.50 U	0.50	
75-34-3	1,1-Dichloroethane	0.50 U	0.50	
107-06-2	1,2-Dichloroethane	0.50 U	0.50	
75-35-4	1,1-Dichloroethene	0.50 U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50 U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50 U	0.50	
594-20-7	2,2-Dichloropropane	0.50 U	0.50	
78-87-5	1,2-Dichloropropane	0.50 U	0.50	
142-28-9	1,3-Dichloropropane	0.50 U	0.50	
563-58-6	1,1-Dichloropropene	0.50 U	0.50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0805
 Date Received: 10/26/13
 Date Analyzed: 10/29/13 20:02

Sample Name: WAL19POST-1013
 Lab Code: R1307945-027

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQU\DATA\MSVOA6\DATA\102913\L1247.D\

Analysis Lot: 365815
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
99-87-6	p-Isopropyltoluene	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
91-20-3	Naphthalene	0.50	U	0.50	
103-65-1	n-Propylbenzene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
108-88-3	Toluene	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	
75-01-4	Vinyl Chloride	0.50	U	0.50	
179601-23-1	m,p-Xylenes	1.0	U	1.0	
95-47-6	o-Xylene	0.50	U	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	70-130	10/29/13 20:02	
1,2-Dichlorobenzene-d4	104	70-130	10/29/13 20:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0805
 Date Received: 10/26/13
 Date Analyzed: 10/29/13 20:35

Sample Name: TRIP BLAK
 Lab Code: R1307945-028

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQU\DATA\MSVOA6\DATA\102913\1248.D

Analysis Lot: 365815
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-43-2	Benzene	0.50	U	0.50	
108-86-1	Bromobenzene	0.50	U	0.50	
74-97-5	Bromochloromethane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-65-0	tert-Butyl Alcohol	20	U	20	
1634-04-4	Methyl tert-Butyl Ether	0.50	U	0.50	
98-06-6	tert-Butylbenzene	0.50	U	0.50	
135-98-8	sec-Butylbenzene	0.50	U	0.50	
104-51-8	n-Butylbenzene	0.50	U	0.50	
56-23-5	Carbon Tetrachloride	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
95-49-8	2-Chlorotoluene	0.50	U	0.50	
106-43-4	4-Chlorotoluene	0.50	U	0.50	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
74-95-3	Dibromomethane	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
594-20-7	2,2-Dichloropropane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
142-28-9	1,3-Dichloropropane	0.50	U	0.50	
563-58-6	1,1-Dichloropropene	0.50	U	0.50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13 0805
 Date Received: 10/26/13
 Date Analyzed: 10/29/13 20:35

Sample Name: TRIP BLAK
 Lab Code: R1307945-028

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\102913\L1248.D\

Analysis Lot: 365815
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
99-87-6	p-Isopropyltoluene	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
91-20-3	Naphthalene	0.50	U	0.50	
103-65-1	n-Propylbenzene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
108-88-3	Toluene	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	
75-01-4	Vinyl Chloride	0.50	U	0.50	
179601-23-1	m,p-Xylenes	1.0	U	1.0	
95-47-6	o-Xylene	0.50	U	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	70-130	10/29/13 20:35	
1,2-Dichlorobenzene-d4	97	70-130	10/29/13 20:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1307945-MB1

Service Request: R1307945
 Date Collected: NA
 Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	350.1	0.050	U	mg/L	0.050	1	NA	11/14/13 12:47	
Biochemical Oxygen Demand (BOD)	SM 5210 B	2.0	U	mg/L	2.0	1	NA	10/23/13 07:27	
Bromide	300.0	0.10	U	mg/L	0.10	1	NA	10/25/13 16:30	
Carbon, Total Organic (TOC)	SM20 5310 C	1.0	U	mg/L	1.0	1	NA	11/13/13 05:36	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	1	NA	11/6/13 07:15	
Chloride	300.0	0.20	U	mg/L	0.20	1	NA	10/25/13 16:30	
Nitrate as Nitrogen	300.0	0.10	U	mg/L	0.10	1	NA	10/25/13 16:30	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20	U	mg/L	0.20	1	11/4/13	11/5/13 17:30	
Phenolics, Total Recoverable	420.4	0.0050	U	mg/L	0.0050	1	NA	11/7/13 09:00	
Solids, Total Dissolved	SM 2540 C	10	U	mg/L	10	1	NA	10/24/13 12:50	
Sulfate	300.0	0.20	U	mg/L	0.20	1	NA	10/25/13 16:30	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1307945-MB2

Service Request: R1307945
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	1.0	U	Percent	1.0	1	NA	10/29/13 16:45	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil
 Sample Name: Method Blank
 Lab Code: R1307945-MB2

Service Request: R1307945
 Date Collected: NA
 Date Received: NA

Basis: Dry, per Method

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Carbon, Total Organic (TOC)	EPA LKahn 7-27-1988	300 U	mg/Kg	300	1	NA	10/30/13 08:50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil
 Sample Name: Method Blank
 Lab Code: R1307945-MB2

Service Request: R1307945
 Date Collected: NA
 Date Received: NA

Basis: Dry

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B Modified	200	U	mg/Kg	200	1	11/7/13	11/8/13 10:00	
Ammonia as Nitrogen, undistilled	350.1M	5.0	U	mg/Kg	5.0	1	11/13/13	11/13/13 15:40	
Bromide	9056A	10	U	mg/Kg	10	1	11/4/13	11/5/13 17:06	
Chemical Oxygen Demand, Total	SM 5220 B Modified	73	U	mg/Kg	73	1	NA	11/1/13 07:45	
Chloride	9056A	30	U	mg/Kg	30	1	11/4/13	11/5/13 17:06	
Nitrate as Nitrogen	9056A	10	U	mg/Kg	10	1	11/4/13	11/5/13 17:06	
Nitrogen, Total Kjeldahl (TKN)	351.2 Modified	20	U	mg/Kg	20	1	11/11/13	11/13/13 10:35	
Phenolics, Total Recoverable	9066 Modified	0.10	U	mg/Kg	0.10	1	11/5/13	11/5/13 10:45	
Sulfate	9056A	30	U	mg/Kg	30	1	11/4/13	11/5/13 17:06	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1307945-MB1

Service Request: R1307945
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:25	
Barium, Total	6010C	20	U	µg/L	20	1	10/30/13	11/1/13 18:25	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/1/13 18:25	
Calcium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/1/13 18:25	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:25	
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/1/13 18:25	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/1/13 18:25	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/1/13 18:25	
Magnesium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/1/13 18:25	
Manganese, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:25	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/1/13 18:25	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/1/13 18:25	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/1/13 18:25	
Sodium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/1/13 18:25	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/1/13 18:25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1307945-MB2

Service Request: R1307945
Date Collected: NA
Date Received: NA

Basis: Dry

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Copper, Total	6010C	2.0	U	mg/Kg	2.0	1	11/4/13	11/8/13 02:52	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1307945-MB2

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:35	
Barium, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 09:35	
Cadmium, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 09:35	
Calcium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/8/13 09:35	
Chromium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:35	
Iron, Total	6010C	100	U	µg/L	100	1	10/30/13	11/8/13 09:35	
Lead, Total	6010C	5.0	U	µg/L	5.0	1	10/30/13	11/8/13 09:35	
Magnesium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/8/13 09:35	
Manganese, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:35	
Nickel, Total	6010C	40	U	µg/L	40	1	10/30/13	11/8/13 09:35	
Potassium, Total	6010C	2000	U	µg/L	2000	1	10/30/13	11/8/13 09:35	
Selenium, Total	6010C	10	U	µg/L	10	1	10/30/13	11/8/13 09:35	
Sodium, Total	6010C	1000	U	µg/L	1000	1	10/30/13	11/8/13 09:35	
Zinc, Total	6010C	20	U	µg/L	20	1	10/30/13	11/8/13 09:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil
 Sample Name: Method Blank
 Lab Code: R1307945-MB3

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Basis: Dry

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	1.0	U	mg/Kg	1.0	1	11/4/13	11/8/13 02:52	
Barium, Total	6010C	2.0	U	mg/Kg	2.0	1	11/4/13	11/8/13 02:52	
Cadmium, Total	6010C	0.50	U	mg/Kg	0.50	1	11/4/13	11/8/13 02:52	
Calcium, Total	6010C	100	U	mg/Kg	100	1	11/4/13	11/14/13 09:26	
Chromium, Total	6010C	1.0	U	mg/Kg	1.0	1	11/4/13	11/8/13 02:52	
Iron, Total	6010C	10	U	mg/Kg	10	1	11/4/13	11/8/13 02:52	
Lead, Total	6010C	5.0	U	mg/Kg	5.0	1	11/4/13	11/8/13 02:52	
Magnesium, Total	6010C	100	U	mg/Kg	100	1	11/4/13	11/8/13 02:52	
Manganese, Total	6010C	1.0	U	mg/Kg	1.0	1	11/4/13	11/14/13 09:26	
Nickel, Total	6010C	4.0	U	mg/Kg	4.0	1	11/4/13	11/8/13 02:52	
Potassium, Total	6010C	200	U	mg/Kg	200	1	11/4/13	11/8/13 02:52	
Selenium, Total	6010C	1.0	U	mg/Kg	1.0	1	11/4/13	11/8/13 02:52	
Sodium, Total	6010C	100	U	mg/Kg	100	1	11/4/13	11/8/13 02:52	
Zinc, Total	6010C	2.0	U	mg/Kg	2.0	1	11/4/13	11/8/13 02:52	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1307945-MB3

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Copper, Total	6010C	20	U	µg/L	20	1	10/30/13	11/11/13 18:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/1/13 12:45

Sample Name: Method Blank
 Lab Code: RQ1313745-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110113\F3552.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/1/13 12:45

Sample Name: Method Blank
 Lab Code: RQ1313745-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110113\F3552.D\

Analysis Lot: 366246
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85-122	11/1/13 12:45	
Toluene-d8	94	87-121	11/1/13 12:45	
Dibromofluoromethane	113	89-119	11/1/13 12:45	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/2/13 14:04

Sample Name: Method Blank
 Lab Code: RQ1314566-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110213\F3574.D\

Analysis Lot: 366394
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/2/13 14:04

Sample Name: Method Blank
 Lab Code: RQ1314566-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoo10\data\110213\F3574.D\

Analysis Lot: 366394
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	11/2/13 14:04	
Toluene-d8	94	87-121	11/2/13 14:04	
Dibromofluoromethane	114	89-119	11/2/13 14:04	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/3/13 15:57

Sample Name: Method Blank
 Lab Code: RQ1313772-04

Units: µg/Kg
 Basis: Dry

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA7\DATA\110313\K6046.D\

Analysis Lot: 366431
 Instrument Name: R-MS-07
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	5.0	U	5.0	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
75-15-0	Carbon Disulfide	5.0	U	5.0	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/3/13 15:57

Sample Name: Method Blank
 Lab Code: RQ1313772-04

Units: µg/Kg
 Basis: Dry

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA7\DATA\110313\K6046.D\

Analysis Lot: 366431
 Instrument Name: R-MS-07
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	10	U	10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	51-136	11/3/13 15:57	
Toluene-d8	94	66-138	11/3/13 15:57	
Dibromofluoromethane	98	63-138	11/3/13 15:57	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/4/13 11:36

Sample Name: Method Blank
 Lab Code: RQ1314491-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3596.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/4/13 11:36

Sample Name: Method Blank
 Lab Code: RQ1314491-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110413\F3596.D\

Analysis Lot: 366536
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	11/4/13 11:36	
Toluene-d8	94	87-121	11/4/13 11:36	
Dibromofluoromethane	114	89-119	11/4/13 11:36	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Water

Service Request: R1307945
Date Collected: NA
Date Received: NA
Date Analyzed: 11/5/13 12:56

Sample Name: Method Blank
Lab Code: RQ1313957-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\110513\F3643.D\

Analysis Lot: 366740
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/5/13 12:56

Sample Name: Method Blank
 Lab Code: RQ1313957-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110513\F3643.D\

Analysis Lot: 366740
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	11/5/13 12:56	
Toluene-d8	95	87-121	11/5/13 12:56	
Dibromofluoromethane	113	89-119	11/5/13 12:56	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/6/13 14:37

Sample Name: Method Blank
 Lab Code: RQ1314353-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\110613\F3691.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/6/13 14:37

Sample Name: Method Blank
 Lab Code: RQ1314353-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\110613\F3691.D\

Analysis Lot: 367033
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85-122	11/6/13 14:37	
Toluene-d8	97	87-121	11/6/13 14:37	
Dibromofluoromethane	115	89-119	11/6/13 14:37	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/7/13 09:33

Sample Name: Method Blank
 Lab Code: RQ1314063-03

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA8\DATA\110713\C2444.D\

Analysis Lot: 367216
 Instrument Name: R-MS-08
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/7/13 09:33

Sample Name: Method Blank
 Lab Code: RQ1314063-03

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA8\DATA\110713\C2444.D\

Analysis Lot: 367216
 Instrument Name: R-MS-08
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	11/7/13 09:33	
Toluene-d8	97	87-121	11/7/13 09:33	
Dibromofluoromethane	97	89-119	11/7/13 09:33	

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/29/13 18:57

Sample Name: Method Blank
 Lab Code: RQ1314397-10

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQU\DATA\MSVOA6\DATA\102913\L1245.D\

Analysis Lot: 365815
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-43-2	Benzene	0.50	U	0.50	
108-86-1	Bromobenzene	0.50	U	0.50	
74-97-5	Bromochloromethane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-65-0	tert-Butyl Alcohol	20	U	20	
1634-04-4	Methyl tert-Butyl Ether	0.50	U	0.50	
98-06-6	tert-Butylbenzene	0.50	U	0.50	
135-98-8	sec-Butylbenzene	0.50	U	0.50	
104-51-8	n-Butylbenzene	0.50	U	0.50	
56-23-5	Carbon Tetrachloride	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
95-49-8	2-Chlorotoluene	0.50	U	0.50	
106-43-4	4-Chlorotoluene	0.50	U	0.50	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
74-95-3	Dibromomethane	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
594-20-7	2,2-Dichloropropane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
142-28-9	1,3-Dichloropropane	0.50	U	0.50	
563-58-6	1,1-Dichloropropene	0.50	U	0.50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/29/13 18:57

Sample Name: Method Blank
 Lab Code: RQ1314397-10

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\102913\L1245.D\

Analysis Lot: 365815
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
99-87-6	p-Isopropyltoluene	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
91-20-3	Naphthalene	0.50	U	0.50	
103-65-1	n-Propylbenzene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
108-88-3	Toluene	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	
75-01-4	Vinyl Chloride	0.50	U	0.50	
179601-23-1	m,p-Xylenes	1.0	U	1.0	
95-47-6	o-Xylene	0.50	U	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	70-130	10/29/13 18:57	
1,2-Dichlorobenzene-d4	98	70-130	10/29/13 18:57	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/30/13 11:29

Sample Name: Method Blank
 Lab Code: RQ1313827-08

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\103013\L1256.D\

Analysis Lot: 365817
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-43-2	Benzene	0.50	U	0.50	
108-86-1	Bromobenzene	0.50	U	0.50	
74-97-5	Bromochloromethane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-65-0	tert-Butyl Alcohol	20	U	20	
1634-04-4	Methyl tert-Butyl Ether	0.50	U	0.50	
98-06-6	tert-Butylbenzene	0.50	U	0.50	
135-98-8	sec-Butylbenzene	0.50	U	0.50	
104-51-8	n-Butylbenzene	0.50	U	0.50	
56-23-5	Carbon Tetrachloride	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
95-49-8	2-Chlorotoluene	0.50	U	0.50	
106-43-4	4-Chlorotoluene	0.50	U	0.50	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
74-95-3	Dibromomethane	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
594-20-7	2,2-Dichloropropane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
142-28-9	1,3-Dichloropropane	0.50	U	0.50	
563-58-6	1,1-Dichloropropene	0.50	U	0.50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/30/13 11:29

Sample Name: Method Blank
 Lab Code: RQ1313827-08

Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2
 Data File Name: I:\ACQUADATA\MSVOA6\DATA\103013\L1256.DA

Analysis Lot: 365817
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
99-87-6	p-Isopropyltoluene	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
91-20-3	Naphthalene	0.50	U	0.50	
103-65-1	n-Propylbenzene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
108-88-3	Toluene	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	
75-01-4	Vinyl Chloride	0.50	U	0.50	
179601-23-1	m,p-Xylenes	1.0	U	1.0	
95-47-6	o-Xylene	0.50	U	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	70-130	10/30/13 11:29	
1,2-Dichlorobenzene-d4	95	70-130	10/30/13 11:29	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Collected: 10/22/13
 Date Received: 10/23/13
 Date Analyzed: 11/ 5/13 -
 11/ 8/13

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: SWS1SED-1013
 Lab Code: R1307945-007

Units: mg/Kg
 Basis: Dry

Analyte Name	Method	MRL	Sample Result	SWS1SED-1013DUP Duplicate Sample		RPD	RPD Limit
				R1307945-007DUP Result	Average		
Alkalinity, Total as CaCO3	SM 2320 B Modified	530	3390	3470	3430	2	20
Phenolics, Total Recoverable	9066 Modified	0.26	0.26 U	0.26 U	NC	NC	30

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Collected: 10/22/13
 Date Received: 10/23/13
 Date Analyzed: 11/ 5/13 -
 11/ 8/13

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: SWS1SED-1013
 Lab Code: R1307945-007

Units: mg/Kg
 Basis: Dry

SWS1SED-1013MS
 Matrix Spike
 R1307945-007MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B Modified	3390	5790	2650	91	60 - 126
Phenolics, Total Recoverable	9066 Modified	ND	1.87	2.06	91	72 - 113

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13
 Date Received: 10/25/13
 Date Analyzed: 11/ 8/13 -
 11/11/13

Replicate Sample Summary
 Inorganic Parameters

Sample Name: MW18D-1013
 Lab Code: R1307945-015

Units: µg/L
 Basis: NA

Analyte Name	Method	MRL	Sample Result	MW18D-1013DUP Duplicate Sample		RPD	RPD Limit
				R1307945-015DUP	Average		
Arsenic, Total	6010C	10	10 U	10 U	NC	NC	20
Barium, Total	6010C	20	46	46	46.0	<1	20
Cadmium, Total	6010C	5.0	5.0 U	5.0 U	NC	NC	20
Calcium, Total	6010C	1000	21900	22000	21900	<1	20
Chromium, Total	6010C	10	10 U	10 U	NC	NC	20
Copper, Total	6010C	20	20 U	20 U	NC	NC	20
Iron, Total	6010C	100	3990	4320	4150	8	20
Lead, Total	6010C	5.0	5.0 U	5.0 U	NC	NC	20
Magnesium, Total	6010C	1000	17000	17300	17100	2	20
Manganese, Total	6010C	10	412	420	416	2	20
Nickel, Total	6010C	40	40 U	40 U	NC	NC	20
Potassium, Total	6010C	2000	2700	2600	2640	2	20
Selenium, Total	6010C	10	10 U	10 U	NC	NC	20
Sodium, Total	6010C	1000	21300	21200	21200	<1	20
Zinc, Total	6010C	20	20 U	20 U	NC	NC	20

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Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13
 Date Received: 10/25/13
 Date Analyzed: 11/ 8/13 - 11/11/13

Matrix Spike Summary
 Inorganic Parameters

Sample Name: MW18D-1013
 Lab Code: R1307945-015
 Analytical Method: 6010C
 Prep Method: EPA 3010A

Units: µg/L
 Basis: NA

MW18D-1013MS
 Matrix Spike
 R1307945-015MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	ND	37	40	93	75 - 125
Barium, Total	46	2020	2000	99	75 - 125
Cadmium, Total	ND	48.4	50.0	97	75 - 125
Calcium, Total	21900	24000	2000	107 #	75 - 125
Chromium, Total	ND	200	200	100	75 - 125
Copper, Total	ND	257	250	103	75 - 125
Iron, Total	3990	5070	1000	108	75 - 125
Lead, Total	ND	504	500	101	75 - 125
Magnesium, Total	17000	18700	2000	87 #	75 - 125
Manganese, Total	412	890	500	96	75 - 125
Nickel, Total	ND	509	500	102	75 - 125
Potassium, Total	2700	21900	20000	96	75 - 125
Selenium, Total	ND	1060	1010	105	75 - 125
Sodium, Total	21300	39500	20000	91	75 - 125
Zinc, Total	ND	481	500	96	75 - 125

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Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13
 Date Received: 10/25/13
 Date Analyzed: 11/ 5/13

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: MW18D-1013
 Lab Code: R1307945-015

Units: µg/L
 Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	MW18D-1013MS Matrix Spike RQ1313957-05			MW18D-1013DMS Duplicate Matrix Spike RQ1313957-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acetone	ND	36.7	50.0	73	44.6	50.0	89	47 - 154	19	30
Benzene	ND	47.0	50.0	94	48.5	50.0	97	84 - 120	3	30
Bromodichloromethane	ND	52.4	50.0	105	54.2	50.0	108	76 - 127	3	30
Bromoform	ND	49.4	50.0	99	52.7	50.0	105	58 - 133	6	30
Bromomethane	ND	29.7	50.0	59	36.0	50.0	72	33 - 154	19	30
2-Butanone (MEK)	ND	47.4	50.0	95	48.6	50.0	97	55 - 133	2	30
Carbon Disulfide	ND	47.0	50.0	94	48.4	50.0	97	37 - 152	3	30
Carbon Tetrachloride	ND	55.2	50.0	110	56.6	50.0	113	71 - 135	2	30
Chlorobenzene	ND	48.0	50.0	96	49.4	50.0	99	80 - 125	3	30
Chloroethane	ND	46.8	50.0	94	48.4	50.0	97	72 - 140	3	30
Chloroform	ND	52.4	50.0	105	54.3	50.0	109	76 - 128	4	30
Chloromethane	ND	44.5	50.0	89	45.6	50.0	91	56 - 147	2	30
Dibromochloromethane	ND	52.7	50.0	105	54.1	50.0	108	71 - 128	3	30
1,1-Dichloroethane	ND	49.4	50.0	99	48.8	50.0	98	74 - 132	1	30
1,2-Dibromoethane	ND	52.3	50.0	105	53.0	50.0	106	80 - 117	1	30
1,2-Dichloroethane	ND	47.5	50.0	95	49.7	50.0	99	72 - 132	4	30
1,1-Dichloroethene	ND	53.8	50.0	108	57.4	50.0	115	72 - 125	7	30
cis-1,2-Dichloroethene	ND	51.8	50.0	104	53.9	50.0	108	72 - 133	4	30
trans-1,2-Dichloroethene	ND	52.3	50.0	105	52.9	50.0	106	77 - 125	1	30
1,2-Dichloropropane	ND	45.6	50.0	91	45.8	50.0	92	85 - 121	<1	30
cis-1,3-Dichloropropene	ND	44.5	50.0	89	46.6	50.0	93	71 - 120	5	30
trans-1,3-Dichloropropene	ND	43.8	50.0	88	46.8	50.0	94	66 - 118	7	30
Ethylbenzene	ND	45.8	50.0	92	47.0	50.0	94	80 - 126	3	30
2-Hexanone	ND	44.0	50.0	88	46.8	50.0	94	60 - 134	6	30
Methylene Chloride	ND	51.7	50.0	103	53.9	50.0	108	75 - 121	4	30
4-Methyl-2-pentanone (MIBK)	ND	49.0	50.0	98	51.8	50.0	104	60 - 138	6	30
Styrene	ND	31.0	50.0	62	31.2	50.0	62	49 - 144	<1	30
1,1,2,2-Tetrachloroethane	ND	47.7	50.0	95	50.3	50.0	101	72 - 122	5	30

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Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/23/13
 Date Received: 10/25/13
 Date Analyzed: 11/ 5/13

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW18D-1013
 Lab Code: R1307945-015
 Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analyte Name	Sample Result	MW18D-1013MS Matrix Spike RQ1313957-05			MW18D-1013DMS Duplicate Matrix Spike RQ1313957-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Tetrachloroethene	ND	47.4	50.0	95	50.0	50.0	100	78 - 130	5	30
Toluene	ND	45.2	50.0	90	46.9	50.0	94	74 - 130	4	30
1,1,1-Trichloroethane	ND	51.8	50.0	104	53.1	50.0	106	74 - 127	2	30
1,1,2-Trichloroethane	ND	48.2	50.0	96	49.6	50.0	99	82 - 115	3	30
Trichloroethene	ND	54.8	50.0	110	56.7	50.0	113	68 - 135	3	30
Vinyl Chloride	ND	48.7	50.0	97	49.9	50.0	100	72 - 148	2	30
o-Xylene	ND	41.0	50.0	82	41.5	50.0	83	76 - 126	1	30
m,p-Xylenes	ND	85.4	100	85	87.8	100	88	70 - 135	3	30

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13
 Date Received: 10/26/13
 Date Analyzed: 10/30/13

Matrix Spike Summary
 Purgeable Organic Compounds by GC/MS

Sample Name: WAL19PRE-1013
 Lab Code: R1307945-025
 Analytical Method: 524.2

Units: µg/L
 Basis: NA

Analyte Name	Sample Result	WAL19PRE-1013MS Matrix Spike RQ1313827-09			WAL19PRE-1013DMS Duplicate Matrix Spike RQ1313827-10			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzene	ND	4.83	5.00	97	4.75	5.00	95	70 - 130	2	20
Bromobenzene	ND	4.89	5.00	98	4.79	5.00	96	70 - 130	2	20
Bromochloromethane	ND	4.72	5.00	94	4.79	5.00	96	70 - 130	1	20
Bromodichloromethane	ND	4.52	5.00	90	4.52	5.00	90	70 - 130	<1	20
Bromoform	ND	3.83	5.00	77	4.04	5.00	81	70 - 130	5	20
Bromomethane	ND	4.95	5.00	99	4.70	5.00	94	70 - 130	5	20
tert-Butyl Alcohol	ND	75.5	100	75	100	100	100	70 - 130	28 *	20
Methyl tert-Butyl Ether	ND	4.55	5.00	91	4.80	5.00	96	70 - 130	5	20
tert-Butylbenzene	ND	5.01	5.00	100	4.79	5.00	96	70 - 130	4	20
sec-Butylbenzene	ND	5.04	5.00	101	4.96	5.00	99	70 - 130	2	20
n-Butylbenzene	ND	4.91	5.00	98	5.01	5.00	100	70 - 130	2	20
Carbon Tetrachloride	ND	4.22	5.00	84	4.32	5.00	86	70 - 130	2	20
Chlorobenzene	ND	4.97	5.00	99	4.74	5.00	95	70 - 130	5	20
Chloroethane	ND	4.55	5.00	91	4.56	5.00	91	70 - 130	<1	20
Chloroform	ND	4.83	5.00	97	4.87	5.00	97	70 - 130	<1	20
Chloromethane	ND	4.25	5.00	85	4.32	5.00	86	70 - 130	2	20
1,2-Dibromo-3-chloropropane	ND	4.07	5.00	81	4.39	5.00	88	70 - 130	8	20
2-Chlorotoluene	ND	4.98	5.00	100	4.77	5.00	95	70 - 130	4	20
4-Chlorotoluene	ND	5.19	5.00	104	4.88	5.00	98	70 - 130	6	20
Dibromochloromethane	ND	4.05	5.00	81	4.28	5.00	86	70 - 130	6	20
1,2-Dibromoethane	ND	4.85	5.00	97	4.95	5.00	99	70 - 130	2	20
Dibromomethane	ND	4.38	5.00	88	4.96	5.00	99	70 - 130	12	20
1,2-Dichlorobenzene	ND	4.71	5.00	94	4.87	5.00	97	70 - 130	3	20
1,4-Dichlorobenzene	ND	4.74	5.00	95	4.88	5.00	98	70 - 130	3	20
1,3-Dichlorobenzene	ND	4.80	5.00	96	4.88	5.00	98	70 - 130	2	20
Dichlorodifluoromethane	ND	3.57	5.00	71	3.71	5.00	74	70 - 130	4	20
1,1-Dichloroethane	ND	4.77	5.00	95	4.78	5.00	96	70 - 130	<1	20
1,2-Dichloroethane	ND	4.66	5.00	93	5.09	5.00	102	70 - 130	9	20

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13
 Date Received: 10/26/13
 Date Analyzed: 10/30/13

Matrix Spike Summary
 Purgeable Organic Compounds by GC/MS

Sample Name: WAL19PRE-1013
 Lab Code: R1307945-025

Units: µg/L
 Basis: NA

Analytical Method: 524.2

Analyte Name	Sample Result	WAL19PRE-1013MS Matrix Spike RQ1313827-09			WAL19PRE-1013DMS Duplicate Matrix Spike RQ1313827-10			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1-Dichloroethene	ND	5.32	5.00	106	5.51	5.00	110	70 - 130	4	20
trans-1,2-Dichloroethene	ND	4.71	5.00	94	4.81	5.00	96	70 - 130	2	20
cis-1,2-Dichloroethene	2.5	7.19	5.00	94	7.17	5.00	94	70 - 130	<1	20
2,2-Dichloropropane	ND	4.49	5.00	90	4.59	5.00	92	70 - 130	2	20
1,2-Dichloropropane	ND	4.76	5.00	95	4.87	5.00	97	70 - 130	2	20
1,3-Dichloropropane	ND	4.82	5.00	96	4.88	5.00	98	70 - 130	1	20
1,1-Dichloropropene	ND	5.32	5.00	106	5.41	5.00	108	70 - 130	2	20
trans-1,3-Dichloropropene	ND	4.39	5.00	88	4.61	5.00	92	70 - 130	5	20
cis-1,3-Dichloropropene	ND	4.48	5.00	90	4.43	5.00	89	70 - 130	1	20
Ethylbenzene	ND	4.77	5.00	95	4.80	5.00	96	70 - 130	<1	20
Hexachlorobutadiene	ND	4.56	5.00	91	4.58	5.00	92	70 - 130	<1	20
Isopropylbenzene	ND	5.14	5.00	103	4.86	5.00	97	70 - 130	6	20
p-Isopropyltoluene	ND	5.01	5.00	100	4.98	5.00	100	70 - 130	<1	20
Methylene Chloride	ND	4.36	5.00	87	4.68	5.00	94	70 - 130	7	20
Naphthalene	ND	3.43	5.00	69 *	5.29	5.00	106	70 - 130	43 *	20
n-Propylbenzene	ND	5.00	5.00	100	4.97	5.00	99	70 - 130	<1	20
Styrene	ND	4.94	5.00	99	4.80	5.00	96	70 - 130	3	20
1,1,1,2-Tetrachloroethane	ND	4.53	5.00	91	4.40	5.00	88	70 - 130	3	20
1,1,2,2-Tetrachloroethane	ND	4.65	5.00	93	5.21	5.00	104	70 - 130	11	20
Tetrachloroethene	ND	4.69	5.00	94	4.77	5.00	95	70 - 130	2	20
Toluene	ND	4.83	5.00	97	4.75	5.00	95	70 - 130	2	20
1,2,4-Trichlorobenzene	ND	4.51	5.00	90	5.18	5.00	104	70 - 130	14	20
1,2,3-Trichlorobenzene	ND	4.11	5.00	82	5.10	5.00	102	70 - 130	21 *	20
1,1,1-Trichloroethane	ND	4.60	5.00	92	4.63	5.00	93	70 - 130	<1	20
1,1,2-Trichloroethane	ND	4.53	5.00	91	4.88	5.00	98	70 - 130	7	20
Trichloroethene	2.4	7.14	5.00	95	7.15	5.00	95	70 - 130	<1	20
Trichlorofluoromethane	ND	4.69	5.00	94	4.67	5.00	93	70 - 130	<1	20
1,2,3-Trichloropropane	ND	4.66	5.00	93	4.99	5.00	100	70 - 130	7	20

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Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Collected: 10/25/13
 Date Received: 10/26/13
 Date Analyzed: 10/30/13

Matrix Spike Summary
Purgeable Organic Compounds by GC/MS

Sample Name: WAL19PRE-1013
 Lab Code: R1307945-025

Units: µg/L
 Basis: NA

Analytical Method: 524.2

Analyte Name	Sample Result	WAL19PRE-1013MS Matrix Spike RQ1313827-09			WAL19PRE-1013DMS Duplicate Matrix Spike RQ1313827-10			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,3,5-Trimethylbenzene	ND	5.00	5.00	100	4.85	5.00	97	70 - 130	3	20
1,2,4-Trimethylbenzene	ND	4.90	5.00	98	4.85	5.00	97	70 - 130	1	20
Vinyl Chloride	ND	4.63	5.00	93	4.70	5.00	94	70 - 130	2	20
m,p-Xylenes	ND	9.77	10.0	98	9.46	10.0	95	70 - 130	3	20
o-Xylene	ND	4.97	5.00	99	4.61	5.00	92	70 - 130	8	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Analyzed: 11/ 1/13 -
 11/13/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/Kg
 Basis: Dry

Lab Control Sample
 R1307945-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B Modified	1820	2000	91	60 - 126
Ammonia as Nitrogen, undistilled	350.1M	50.4	50.0	101	90 - 110
Bromide	9056A	95.5	100	96	80 - 120
Chemical Oxygen Demand, Total	SM 5220 B Modified	730	800	91	49 - 153
Chloride	9056A	200	200	100	80 - 120
Nitrate as Nitrogen	9056A	98.3	100	98	80 - 120
Nitrogen, Total Kjeldahl (TKN)	351.2 Modified	237	250	95	30 - 158
Phenolics, Total Recoverable	9066 Modified	0.708	0.80	88	72 - 113
Sulfate	9056A	197	200	99	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Analyzed: 10/30/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/Kg
 Basis: Dry, per Method

Lab Control Sample
 R1307945-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	EPA LKahn 7-27-1988	2010	2000	100	84 - 113

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 10/23/13 -
 11/14/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/L
 Basis: NA

Analyte Name	Method	Lab Control Sample R1307945-LCS2			% Rec	Limits
		Result	Spike Amount	% Rec		
Ammonia as Nitrogen, undistilled	350.1	0.501	0.500	100	90 - 110	
Biochemical Oxygen Demand (BOD)	SM 5210 B	168	198	85	85 - 115	
Bromide	300.0	0.972	1.00	97	90 - 110	
Carbon, Total Organic (TOC)	SM20 5310 C	9.72	10.0	97	86 - 119	
Chemical Oxygen Demand, Total	410.4	50.5	50.0	101	90 - 110	
Chloride	300.0	1.96	2.00	98	90 - 110	
Nitrate as Nitrogen	300.0	0.968	1.00	97	90 - 110	
Nitrogen, Total Kjeldahl (TKN)	351.2	2.45	2.50	98	90 - 110	
Phenolics, Total Recoverable	420.4	0.0390	0.0400	98	90 - 110	
Solids, Total Dissolved	SM 2540 C	884	915	97	90 - 110	
Sulfate	300.0	1.95	2.00	97	90 - 110	

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Soil

Service Request: R1307945
Date Analyzed: 11/ 8/13 -
 11/14/13

**Lab Control Sample Summary
 Inorganic Parameters**

Units: mg/Kg
Basis: Dry

**Lab Control Sample
 R1307945-LCS1**

Analyte Name	Method	Result	Spike		% Rec Limits
			Amount	% Rec	
Arsenic, Total	6010C	83.5	94.5	88	82.3 - 117
Barium, Total	6010C	161	167	96	83.8 - 115
Cadmium, Total	6010C	57.2	60.5	94	83.1 - 116
Calcium, Total	6010C	5930	6140	97	83.2 - 116
Chromium, Total	6010C	68.3	70.4	97	81.8 - 118
Copper, Total	6010C	76.2	79.6	96	83.8 - 116
Iron, Total	6010C	12800	12500	103	50.6 - 149
Lead, Total	6010C	87.0	91.8	95	82.2 - 117
Magnesium, Total	6010C	2500	2580	97	76.0 - 123
Manganese, Total	6010C	286	283	101	82.3 - 117
Nickel, Total	6010C	55.9	57.6	97	82.8 - 117
Potassium, Total	6010C	2260	2490	91	69.9 - 129
Selenium, Total	6010C	74.2	86.4	86	80.1 - 120
Sodium, Total	6010C	212	220	99	67.0 - 133
Zinc, Total	6010C	135	140	96	82.1 - 117

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/ 1/13

Lab Control Sample Summary
 Inorganic Parameters

Units: µg/L
 Basis: NA

Lab Control Sample
 R1307945-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	36.2	40	91	80 - 120
Barium, Total	6010C	2050	2000	103	80 - 120
Cadmium, Total	6010C	48.8	50.0	98	80 - 120
Calcium, Total	6010C	2030	2000	101	80 - 120
Chromium, Total	6010C	207	200	104	80 - 120
Copper, Total	6010C	256	250	102	80 - 120
Iron, Total	6010C	987	1000	99	80 - 120
Lead, Total	6010C	499	500	100	80 - 120
Magnesium, Total	6010C	1960	2000	98	80 - 120
Manganese, Total	6010C	496	500	99	80 - 120
Nickel, Total	6010C	516	500	103	80 - 120
Potassium, Total	6010C	18800	20000	94	80 - 120
Selenium, Total	6010C	995	1010	98	80 - 120
Sodium, Total	6010C	19400	20000	97	80 - 120
Zinc, Total	6010C	515	500	103	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/ 8/13 -
 11/11/13

Lab Control Sample Summary
 Inorganic Parameters

Units: µg/L
 Basis: NA

Lab Control Sample
 R1307945-LCS3

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	37.2	40	93	80 - 120
Barium, Total	6010C	2040	2000	102	80 - 120
Cadmium, Total	6010C	49.7	50.0	99	80 - 120
Calcium, Total	6010C	2060	2000	103	80 - 120
Chromium, Total	6010C	204	200	102	80 - 120
Copper, Total	6010C	284	250	113	80 - 120
Iron, Total	6010C	984	1000	98	80 - 120
Lead, Total	6010C	514	500	103	80 - 120
Magnesium, Total	6010C	2040	2000	102	80 - 120
Manganese, Total	6010C	494	500	99	80 - 120
Nickel, Total	6010C	532	500	106	80 - 120
Potassium, Total	6010C	19300	20000	96	80 - 120
Selenium, Total	6010C	1000	1010	99	80 - 120
Sodium, Total	6010C	19500	20000	97	80 - 120
Zinc, Total	6010C	535	500	107	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 10/29/13

Lab Control Sample Summary
 Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

Units: µg/L
 Basis: NA

Analysis Lot: 365815

Analyte Name	Lab Control Sample RQ1314397-08			Duplicate Lab Control Sample RQ1314397-09			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzene	5.09	5.00	102	5.05	5.00	101	70 - 130	<1	20
Bromobenzene	4.82	5.00	96	4.88	5.00	98	70 - 130	1	20
Bromochloromethane	4.83	5.00	97	4.65	5.00	93	70 - 130	4	20
Bromodichloromethane	4.65	5.00	93	4.79	5.00	96	70 - 130	3	20
Bromoform	4.04	5.00	81	4.49	5.00	90	70 - 130	11	20
Bromomethane	5.07	5.00	101	5.08	5.00	102	70 - 130	<1	20
tert-Butyl Alcohol	81.3	100	81	85.2	100	85	70 - 130	5	20
Methyl tert-Butyl Ether	4.94	5.00	99	5.07	5.00	101	70 - 130	3	20
tert-Butylbenzene	4.81	5.00	96	5.13	5.00	103	70 - 130	6	20
sec-Butylbenzene	4.88	5.00	98	5.15	5.00	103	70 - 130	5	20
n-Butylbenzene	4.91	5.00	98	5.02	5.00	100	70 - 130	2	20
Carbon Tetrachloride	4.64	5.00	93	4.66	5.00	93	70 - 130	<1	20
Chlorobenzene	4.87	5.00	97	4.97	5.00	99	70 - 130	2	20
Chloroethane	4.61	5.00	92	4.86	5.00	97	70 - 130	5	20
Chloroform	5.10	5.00	102	4.90	5.00	98	70 - 130	4	20
Chloromethane	4.56	5.00	91	4.60	5.00	92	70 - 130	<1	20
1,2-Dibromo-3-chloropropane	4.11	5.00	82	4.13	5.00	83	70 - 130	<1	20
2-Chlorotoluene	4.72	5.00	94	5.23	5.00	105	70 - 130	10	20
4-Chlorotoluene	5.01	5.00	100	5.10	5.00	102	70 - 130	2	20
Dibromochloromethane	4.42	5.00	88	4.62	5.00	92	70 - 130	4	20
1,2-Dibromoethane	4.81	5.00	96	4.89	5.00	98	70 - 130	2	20
Dibromomethane	4.83	5.00	97	5.09	5.00	102	70 - 130	5	20
1,2-Dichlorobenzene	4.68	5.00	94	4.91	5.00	98	70 - 130	5	20
1,4-Dichlorobenzene	4.73	5.00	95	4.97	5.00	99	70 - 130	5	20
1,3-Dichlorobenzene	4.78	5.00	96	4.98	5.00	100	70 - 130	4	20
Dichlorodifluoromethane	4.04	5.00	81	4.16	5.00	83	70 - 130	3	20
1,1-Dichloroethane	4.80	5.00	96	4.91	5.00	98	70 - 130	2	20
1,2-Dichloroethane	4.78	5.00	96	4.95	5.00	99	70 - 130	3	20
1,1-Dichloroethene	5.39	5.00	108	5.51	5.00	110	70 - 130	2	20
trans-1,2-Dichloroethene	4.66	5.00	93	4.74	5.00	95	70 - 130	2	20
cis-1,2-Dichloroethene	4.74	5.00	95	5.05	5.00	101	70 - 130	6	20
2,2-Dichloropropane	4.74	5.00	95	4.96	5.00	99	70 - 130	5	20
1,2-Dichloropropane	4.97	5.00	99	4.94	5.00	99	70 - 130	<1	20

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 10/29/13

Lab Control Sample Summary
 Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

Units: µg/L
 Basis: NA

Analysis Lot: 365815

Analyte Name	Lab Control Sample RQ1314397-08			Duplicate Lab Control Sample RQ1314397-09			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,3-Dichloropropane	4.84	5.00	97	4.89	5.00	98	70 - 130	1	20
1,1-Dichloropropene	5.45	5.00	109	5.46	5.00	109	70 - 130	<1	20
trans-1,3-Dichloropropene	4.53	5.00	91	4.63	5.00	93	70 - 130	2	20
cis-1,3-Dichloropropene	4.58	5.00	92	4.66	5.00	93	70 - 130	2	20
Ethylbenzene	4.73	5.00	95	5.00	5.00	100	70 - 130	6	20
Hexachlorobutadiene	4.54	5.00	91	4.80	5.00	96	70 - 130	6	20
Isopropylbenzene	4.96	5.00	99	5.22	5.00	104	70 - 130	5	20
p-Isopropyltoluene	4.89	5.00	98	5.28	5.00	106	70 - 130	8	20
Methylene Chloride	4.73	5.00	95	4.85	5.00	97	70 - 130	3	20
Naphthalene	3.40	5.00	68 *	3.90	5.00	78	70 - 130	14	20
n-Propylbenzene	5.06	5.00	101	5.19	5.00	104	70 - 130	3	20
Styrene	4.81	5.00	96	4.98	5.00	100	70 - 130	3	20
1,1,1,2-Tetrachloroethane	4.62	5.00	92	4.91	5.00	98	70 - 130	6	20
1,1,2,2-Tetrachloroethane	4.70	5.00	94	4.85	5.00	97	70 - 130	3	20
Tetrachloroethene	4.77	5.00	95	5.05	5.00	101	70 - 130	6	20
Toluene	4.93	5.00	99	5.04	5.00	101	70 - 130	2	20
1,2,4-Trichlorobenzene	4.35	5.00	87	4.71	5.00	94	70 - 130	8	20
1,2,3-Trichlorobenzene	3.73	5.00	75	4.16	5.00	83	70 - 130	11	20
1,1,1-Trichloroethane	4.98	5.00	100	4.79	5.00	96	70 - 130	4	20
1,1,2-Trichloroethane	4.63	5.00	93	4.91	5.00	98	70 - 130	6	20
Trichloroethene	4.74	5.00	95	4.64	5.00	93	70 - 130	2	20
Trichlorofluoromethane	4.58	5.00	92	4.84	5.00	97	70 - 130	6	20
1,2,3-Trichloropropane	4.76	5.00	95	5.18	5.00	104	70 - 130	8	20
1,3,5-Trimethylbenzene	5.01	5.00	100	5.21	5.00	104	70 - 130	4	20
1,2,4-Trimethylbenzene	4.94	5.00	99	5.14	5.00	103	70 - 130	4	20
Vinyl Chloride	4.97	5.00	99	4.82	5.00	96	70 - 130	3	20
m,p-Xylenes	9.71	10.0	97	10.1	10.0	101	70 - 130	4	20
o-Xylene	4.79	5.00	96	4.95	5.00	99	70 - 130	3	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 10/30/13

Lab Control Sample Summary
 Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

Units: µg/L
 Basis: NA

Analysis Lot: 365817

Lab Control Sample
 RQ1313827-07

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Benzene	4.86	5.00	97	70 - 130
Bromobenzene	4.73	5.00	95	70 - 130
Bromochloromethane	4.67	5.00	93	70 - 130
Bromodichloromethane	4.65	5.00	93	70 - 130
Bromoform	4.16	5.00	83	70 - 130
Bromomethane	4.76	5.00	95	70 - 130
tert-Butyl Alcohol	93.2	100	93	70 - 130
Methyl tert-Butyl Ether	4.70	5.00	94	70 - 130
tert-Butylbenzene	4.77	5.00	95	70 - 130
sec-Butylbenzene	4.82	5.00	96	70 - 130
n-Butylbenzene	4.93	5.00	99	70 - 130
Carbon Tetrachloride	4.38	5.00	88	70 - 130
Chlorobenzene	4.85	5.00	97	70 - 130
Chloroethane	4.66	5.00	93	70 - 130
Chloroform	4.87	5.00	97	70 - 130
Chloromethane	4.34	5.00	87	70 - 130
1,2-Dibromo-3-chloropropane	4.48	5.00	90	70 - 130
2-Chlorotoluene	4.81	5.00	96	70 - 130
4-Chlorotoluene	5.07	5.00	101	70 - 130
Dibromochloromethane	4.51	5.00	90	70 - 130
1,2-Dibromoethane	4.87	5.00	97	70 - 130
Dibromomethane	4.85	5.00	97	70 - 130
1,2-Dichlorobenzene	4.75	5.00	95	70 - 130
1,4-Dichlorobenzene	4.77	5.00	95	70 - 130
1,3-Dichlorobenzene	4.71	5.00	94	70 - 130
Dichlorodifluoromethane	3.84	5.00	77	70 - 130
1,1-Dichloroethane	4.83	5.00	97	70 - 130
1,2-Dichloroethane	4.79	5.00	96	70 - 130
1,1-Dichloroethene	5.17	5.00	103	70 - 130
trans-1,2-Dichloroethene	4.54	5.00	91	70 - 130
cis-1,2-Dichloroethene	4.79	5.00	96	70 - 130
2,2-Dichloropropane	4.44	5.00	89	70 - 130
1,2-Dichloropropane	4.90	5.00	98	70 - 130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 10/30/13

Lab Control Sample Summary
 Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

Units: µg/L
 Basis: NA

Analysis Lot: 365817

Lab Control Sample
 RQ1313827-07

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,3-Dichloropropane	4.85	5.00	97	70 - 130
1,1-Dichloropropene	5.28	5.00	106	70 - 130
trans-1,3-Dichloropropene	4.45	5.00	89	70 - 130
cis-1,3-Dichloropropene	4.63	5.00	93	70 - 130
Ethylbenzene	4.75	5.00	95	70 - 130
Hexachlorobutadiene	4.92	5.00	98	70 - 130
Isopropylbenzene	4.84	5.00	97	70 - 130
p-Isopropyltoluene	4.92	5.00	98	70 - 130
Methylene Chloride	4.70	5.00	94	70 - 130
Naphthalene	4.42	5.00	88	70 - 130
n-Propylbenzene	4.88	5.00	98	70 - 130
Styrene	4.77	5.00	95	70 - 130
1,1,1,2-Tetrachloroethane	4.73	5.00	95	70 - 130
1,1,2,2-Tetrachloroethane	4.68	5.00	94	70 - 130
Tetrachloroethene	4.49	5.00	90	70 - 130
Toluene	4.79	5.00	96	70 - 130
1,2,4-Trichlorobenzene	4.75	5.00	95	70 - 130
1,2,3-Trichlorobenzene	4.40	5.00	88	70 - 130
1,1,1-Trichloroethane	4.82	5.00	96	70 - 130
1,1,2-Trichloroethane	4.51	5.00	90	70 - 130
Trichloroethene	4.60	5.00	92	70 - 130
Trichlorofluoromethane	4.57	5.00	91	70 - 130
1,2,3-Trichloropropane	4.65	5.00	93	70 - 130
1,3,5-Trimethylbenzene	4.92	5.00	98	70 - 130
1,2,4-Trimethylbenzene	4.86	5.00	97	70 - 130
Vinyl Chloride	4.56	5.00	91	70 - 130
m,p-Xylenes	9.70	10.0	97	70 - 130
o-Xylene	4.78	5.00	96	70 - 130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/ 1/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 366246

Lab Control Sample
 RQ1313745-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	16.7	20.0	83	61 - 138
Benzene	18.7	20.0	93	76 - 118
Bromodichloromethane	21.0	20.0	105	79 - 123
Bromoform	22.6	20.0	113	72 - 128
Bromomethane	12.9	20.0	64	46 - 157
2-Butanone (MEK)	17.8	20.0	89	60 - 133
Carbon Disulfide	21.9	20.0	110	61 - 144
Carbon Tetrachloride	20.7	20.0	103	64 - 129
Chlorobenzene	19.5	20.0	98	80 - 121
Chloroethane	19.7	20.0	99	69 - 128
Chloroform	20.1	20.0	101	75 - 123
Chloromethane	18.6	20.0	93	55 - 139
Dibromochloromethane	21.9	20.0	109	78 - 127
1,1-Dichloroethane	18.5	20.0	93	76 - 128
1,2-Dibromoethane	21.5	20.0	107	81 - 118
1,2-Dichloroethane	19.2	20.0	96	72 - 130
1,1-Dichloroethene	23.0	20.0	115	74 - 135
cis-1,2-Dichloroethene	19.9	20.0	100	77 - 123
trans-1,2-Dichloroethene	19.6	20.0	98	72 - 120
1,2-Dichloropropane	18.0	20.0	90	80 - 119
cis-1,3-Dichloropropane	18.4	20.0	92	77 - 125
trans-1,3-Dichloropropane	18.2	20.0	91	69 - 127
Ethylbenzene	18.9	20.0	94	75 - 123
2-Hexanone	17.6	20.0	88	61 - 131
Methylene Chloride	20.2	20.0	101	73 - 122
4-Methyl-2-pentanone (MIBK)	18.8	20.0	94	61 - 132
Styrene	18.0	20.0	90	80 - 121
1,1,2,2-Tetrachloroethane	21.7	20.0	108	72 - 124
Tetrachloroethene	19.0	20.0	95	71 - 127
Toluene	18.4	20.0	92	77 - 120
1,1,1-Trichloroethane	18.9	20.0	94	67 - 121
1,1,2-Trichloroethane	19.6	20.0	98	81 - 117
Trichloroethene	20.8	20.0	104	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/ 1/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 366246

Lab Control Sample
 RQ1313745-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	20.1	20.0	100	68 - 139
o-Xylene	18.0	20.0	90	77 - 131
m,p-Xylenes	37.5	40.0	94	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/2/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 366394

Lab Control Sample
 RQ1314566-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	15.4	20.0	77	61 - 138
Benzene	17.8	20.0	89	76 - 118
Bromodichloromethane	20.5	20.0	103	79 - 123
Bromoform	23.0	20.0	115	72 - 128
Bromomethane	12.5	20.0	62	46 - 157
2-Butanone (MEK)	18.3	20.0	91	60 - 133
Carbon Disulfide	18.6	20.0	93	61 - 144
Carbon Tetrachloride	21.0	20.0	105	64 - 129
Chlorobenzene	18.9	20.0	95	80 - 121
Chloroethane	17.5	20.0	88	69 - 128
Chloroform	19.7	20.0	99	75 - 123
Chloromethane	17.4	20.0	87	55 - 139
Dibromochloromethane	22.7	20.0	113	78 - 127
1,1-Dichloroethane	17.5	20.0	88	76 - 128
1,2-Dibromoethane	20.9	20.0	105	81 - 118
1,2-Dichloroethane	18.8	20.0	94	72 - 130
1,1-Dichloroethene	22.4	20.0	112	74 - 135
cis-1,2-Dichloroethene	19.4	20.0	97	77 - 123
trans-1,2-Dichloroethene	18.7	20.0	93	72 - 120
1,2-Dichloropropane	17.5	20.0	87	80 - 119
cis-1,3-Dichloropropene	17.7	20.0	88	77 - 125
trans-1,3-Dichloropropene	18.0	20.0	90	69 - 127
Ethylbenzene	18.2	20.0	91	75 - 123
2-Hexanone	17.1	20.0	85	61 - 131
Methylene Chloride	19.3	20.0	97	73 - 122
4-Methyl-2-pentanone (MIBK)	19.1	20.0	95	61 - 132
Styrene	17.4	20.0	87	80 - 121
1,1,2,2-Tetrachloroethane	19.5	20.0	98	72 - 124
Tetrachloroethene	18.8	20.0	94	71 - 127
Toluene	17.3	20.0	86	77 - 120
1,1,1-Trichloroethane	18.9	20.0	95	67 - 121
1,1,2-Trichloroethane	18.8	20.0	94	81 - 117
Trichloroethene	20.0	20.0	100	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/2/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 366394

Lab Control Sample
 RQ1314566-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	18.0	20.0	90	68 - 139
o-Xylene	17.5	20.0	87	77 - 131
m,p-Xylenes	36.4	40.0	91	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Analyzed: 11/3/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/Kg
 Basis: Dry

Analysis Lot: 366431

Lab Control Sample
 RQ1313772-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	20.9	20.0	104	50 - 151
Benzene	22.2	20.0	111	75 - 124
Bromodichloromethane	21.4	20.0	107	77 - 127
Bromoform	18.7	20.0	94	61 - 144
Bromomethane	22.2	20.0	111	52 - 140
2-Butanone (MEK)	17.7	20.0	88	63 - 135
Carbon Disulfide	27.3	20.0	137 *	66 - 135
Carbon Tetrachloride	24.8	20.0	124	58 - 125
Chlorobenzene	20.4	20.0	102	77 - 124
Chloroethane	21.1	20.0	106	56 - 138
Chloroform	24.1	20.0	121	75 - 126
Chloromethane	21.8	20.0	109	52 - 145
Dibromochloromethane	20.6	20.0	103	69 - 133
1,1-Dichloroethane	22.4	20.0	112	75 - 126
1,2-Dibromoethane	19.8	20.0	99	73 - 125
1,2-Dichloroethane	21.5	20.0	108	69 - 121
1,1-Dichloroethene	26.2	20.0	131	69 - 135
cis-1,2-Dichloroethene	23.2	20.0	116	75 - 127
trans-1,2-Dichloroethene	24.0	20.0	120	69 - 125
1,2-Dichloropropane	21.0	20.0	105	79 - 124
cis-1,3-Dichloropropene	20.9	20.0	105	73 - 120
trans-1,3-Dichloropropene	19.4	20.0	97	68 - 120
Ethylbenzene	22.0	20.0	110	70 - 130
2-Hexanone	17.5	20.0	88	59 - 144
Methylene Chloride	22.1	20.0	111	75 - 122
4-Methyl-2-pentanone (MIBK)	17.7	20.0	88	65 - 138
Styrene	20.5	20.0	103	71 - 127
1,1,2,2-Tetrachloroethane	18.4	20.0	92	71 - 134
Tetrachloroethene	23.8	20.0	119	67 - 133
Toluene	21.1	20.0	105	72 - 127
1,1,1-Trichloroethane	25.8	20.0	129 *	65 - 127
1,1,2-Trichloroethane	18.9	20.0	95	76 - 123
Trichloroethene	24.3	20.0	121	72 - 128

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Soil

Service Request: R1307945
 Date Analyzed: 11/3/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/Kg
 Basis: Dry

Analysis Lot: 366431

Lab Control Sample
 RQ1313772-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	25.8	20.0	129	58 - 152
o-Xylene	21.7	20.0	108	71 - 127
m,p-Xylenes	43.0	40.0	107	70 - 131

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/4/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 366536

Lab Control Sample
 RQ1314491-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	20.1	20.0	100	61 - 138
Benzene	18.8	20.0	94	76 - 118
Bromodichloromethane	22.3	20.0	111	79 - 123
Bromoform	25.7	20.0	128	72 - 128
Bromomethane	18.5	20.0	92	46 - 157
2-Butanone (MEK)	21.0	20.0	105	60 - 133
Carbon Disulfide	22.7	20.0	113	61 - 144
Carbon Tetrachloride	22.3	20.0	111	64 - 129
Chlorobenzene	19.9	20.0	100	80 - 121
Chloroethane	18.6	20.0	93	69 - 128
Chloroform	20.9	20.0	105	75 - 123
Chloromethane	17.9	20.0	89	55 - 139
Dibromochloromethane	24.0	20.0	120	78 - 127
1,1-Dichloroethane	18.6	20.0	93	76 - 128
1,2-Dibromoethane	22.1	20.0	111	81 - 118
1,2-Dichloroethane	19.9	20.0	100	72 - 130
1,1-Dichloroethene	21.7	20.0	108	74 - 135
cis-1,2-Dichloroethene	20.3	20.0	101	77 - 123
trans-1,2-Dichloroethene	20.5	20.0	102	72 - 120
1,2-Dichloropropane	18.2	20.0	91	80 - 119
cis-1,3-Dichloropropene	18.6	20.0	93	77 - 125
trans-1,3-Dichloropropene	19.0	20.0	95	69 - 127
Ethylbenzene	18.7	20.0	94	75 - 123
2-Hexanone	20.4	20.0	102	61 - 131
Methylene Chloride	21.2	20.0	106	73 - 122
4-Methyl-2-pentanone (MIBK)	21.2	20.0	106	61 - 132
Styrene	18.5	20.0	93	80 - 121
1,1,2,2-Tetrachloroethane	20.7	20.0	103	72 - 124
Tetrachloroethene	19.3	20.0	97	71 - 127
Toluene	18.3	20.0	92	77 - 120
1,1,1-Trichloroethane	19.8	20.0	99	67 - 121
1,1,2-Trichloroethane	20.8	20.0	104	81 - 117
Trichloroethene	21.3	20.0	106	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Water

Service Request: R1307945
Date Analyzed: 11/4/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 366536

Lab Control Sample
 RQ1314491-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	19.4	20.0	97	68 - 139
o-Xylene	17.8	20.0	89	77 - 131
m,p-Xylenes	37.7	40.0	94	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
Project: Wellsville-Andover LF/Annual Sampling
Sample Matrix: Water

Service Request: R1307945
Date Analyzed: 11/ 5/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 366740

Analyte Name	Lab Control Sample RQ1313957-07			Duplicate Lab Control Sample RQ1313957-08			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acetone	15.5	20.0	77	21.5	20.0	108	61 - 138	33 *	30
Benzene	18.3	20.0	91	18.8	20.0	94	76 - 118	3	30
Bromodichloromethane	19.7	20.0	98	22.5	20.0	112	79 - 123	13	30
Bromoform	21.8	20.0	109	24.1	20.0	120	72 - 128	10	30
Bromomethane	18.8	20.0	94	19.0	20.0	95	46 - 157	<1	30
2-Butanone (MEK)	17.0	20.0	85	21.8	20.0	109	60 - 133	25	30
Carbon Disulfide	21.0	20.0	105	24.8	20.0	124	61 - 144	16	30
Carbon Tetrachloride	22.3	20.0	111	22.4	20.0	112	64 - 129	<1	30
Chlorobenzene	19.2	20.0	96	20.4	20.0	102	80 - 121	6	30
Chloroethane	18.5	20.0	92	19.0	20.0	95	69 - 128	3	30
Chloroform	20.0	20.0	100	21.2	20.0	106	75 - 123	6	30
Chloromethane	17.2	20.0	86	18.1	20.0	90	55 - 139	5	30
Dibromochloromethane	21.9	20.0	110	23.9	20.0	120	78 - 127	9	30
1,1-Dichloroethane	18.2	20.0	91	19.3	20.0	97	76 - 128	6	30
1,2-Dibromoethane	20.2	20.0	101	23.4	20.0	117	81 - 118	15	30
1,2-Dichloroethane	17.5	20.0	87	20.2	20.0	101	72 - 130	14	30
1,1-Dichloroethene	21.6	20.0	108	23.0	20.0	115	74 - 135	6	30
cis-1,2-Dichloroethene	19.2	20.0	96	21.1	20.0	105	77 - 123	9	30
trans-1,2-Dichloroethene	19.5	20.0	98	20.6	20.0	103	72 - 120	5	30
1,2-Dichloropropane	17.3	20.0	86	19.4	20.0	97	80 - 119	12	30
cis-1,3-Dichloropropene	16.9	20.0	84	19.4	20.0	97	77 - 125	14	30
trans-1,3-Dichloropropene	17.5	20.0	87	19.2	20.0	96	69 - 127	9	30
Ethylbenzene	18.9	20.0	94	19.6	20.0	98	75 - 123	4	30
2-Hexanone	16.0	20.0	80	19.2	20.0	96	61 - 131	18	30
Methylene Chloride	20.1	20.0	100	21.5	20.0	108	73 - 122	7	30
4-Methyl-2-pentanone (MIBK)	16.9	20.0	85	21.3	20.0	107	61 - 132	23	30
Styrene	17.9	20.0	89	18.9	20.0	94	80 - 121	5	30
1,1,2,2-Tetrachloroethane	18.7	20.0	93	21.6	20.0	108	72 - 124	15	30
Tetrachloroethene	19.6	20.0	98	20.2	20.0	101	71 - 127	3	30
Toluene	18.2	20.0	91	18.8	20.0	94	77 - 120	3	30
1,1,1-Trichloroethane	19.4	20.0	97	20.0	20.0	100	67 - 121	3	30
1,1,2-Trichloroethane	18.7	20.0	94	21.2	20.0	106	81 - 117	13	30
Trichloroethene	20.0	20.0	100	22.3	20.0	112	75 - 122	11	30

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/ 5/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 366740

Analyte Name	Lab Control Sample RQ1313957-07			Duplicate Lab Control Sample RQ1313957-08			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Vinyl Chloride	18.3	20.0	91	18.9	20.0	95	68 - 139	4	30
o-Xylene	17.5	20.0	88	18.5	20.0	92	77 - 131	5	30
m,p-Xylenes	37.2	40.0	93	38.9	40.0	97	77 - 124	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

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: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/6/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 367033

Analyte Name	Lab Control Sample RQ1314353-02			Duplicate Lab Control Sample RQ1314353-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acetone	17.6	20.0	88	20.8	20.0	104	61 - 138	17	30
Benzene	17.7	20.0	89	20.5	20.0	102	76 - 118	14	30
Bromodichloromethane	19.7	20.0	98	22.4	20.0	112	79 - 123	13	30
Bromoform	19.5	20.0	98	22.4	20.0	112	72 - 128	14	30
Bromomethane	17.4	20.0	87	21.3	20.0	106	46 - 157	20	30
2-Butanone (MEK)	18.2	20.0	91	22.4	20.0	112	60 - 133	21	30
Carbon Disulfide	18.5	20.0	92	25.4	20.0	127	61 - 144	31 *	30
Carbon Tetrachloride	19.8	20.0	99	23.0	20.0	115	64 - 129	15	30
Chlorobenzene	18.1	20.0	91	20.7	20.0	104	80 - 121	13	30
Chloroethane	18.6	20.0	93	21.7	20.0	108	69 - 128	15	30
Chloroform	19.5	20.0	98	23.3	20.0	116	75 - 123	17	30
Chloromethane	19.5	20.0	97	21.7	20.0	109	55 - 139	11	30
Dibromochloromethane	20.2	20.0	101	23.9	20.0	119	78 - 127	17	30
1,1-Dichloroethane	18.2	20.0	91	21.2	20.0	106	76 - 128	15	30
1,2-Dibromoethane	18.7	20.0	94	22.3	20.0	111	81 - 118	17	30
1,2-Dichloroethane	17.7	20.0	88	20.9	20.0	104	72 - 130	16	30
1,1-Dichloroethene	21.0	20.0	105	24.6	20.0	123	74 - 135	16	30
cis-1,2-Dichloroethene	19.5	20.0	97	22.1	20.0	110	77 - 123	13	30
trans-1,2-Dichloroethene	19.8	20.0	99	22.5	20.0	112	72 - 120	13	30
1,2-Dichloropropane	17.3	20.0	87	20.2	20.0	101	80 - 119	15	30
cis-1,3-Dichloropropene	16.7	20.0	84	19.5	20.0	97	77 - 125	15	30
trans-1,3-Dichloropropene	16.7	20.0	84	19.2	20.0	96	69 - 127	14	30
Ethylbenzene	16.4	20.0	82	19.7	20.0	99	75 - 123	19	30
2-Hexanone	16.5	20.0	82	19.6	20.0	98	61 - 131	17	30
Methylene Chloride	20.2	20.0	101	23.7	20.0	118	73 - 122	16	30
4-Methyl-2-pentanone (MIBK)	17.2	20.0	86	21.4	20.0	107	61 - 132	22	30
Styrene	16.9	20.0	85	19.0	20.0	95	80 - 121	11	30
1,1,2,2-Tetrachloroethane	17.8	20.0	89	20.7	20.0	104	72 - 124	15	30
Tetrachloroethene	17.4	20.0	87	21.0	20.0	105	71 - 127	19	30
Toluene	17.1	20.0	85	19.9	20.0	99	77 - 120	15	30
1,1,1-Trichloroethane	17.9	20.0	90	21.7	20.0	108	67 - 121	19	30
1,1,2-Trichloroethane	17.7	20.0	89	20.8	20.0	104	81 - 117	16	30
Trichloroethene	19.2	20.0	96	23.2	20.0	116	75 - 122	18	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/6/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 367033

Analyte Name	Lab Control Sample RQ1314353-02			Duplicate Lab Control Sample RQ1314353-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Vinyl Chloride	19.5	20.0	98	22.1	20.0	111	68 - 139	12	30
o-Xylene	16.1	20.0	80	19.2	20.0	96	77 - 131	18	30
m,p-Xylenes	34.3	40.0	86	39.9	40.0	100	77 - 124	15	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/7/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 367216

Lab Control Sample
 RQ1314063-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	20.3	20.0	102	61 - 138
Benzene	19.6	20.0	98	76 - 118
Bromodichloromethane	17.7	20.0	89	79 - 123
Bromoform	16.9	20.0	84	72 - 128
Bromomethane	16.3	20.0	82	46 - 157
2-Butanone (MEK)	20.9	20.0	104	60 - 133
Carbon Disulfide	20.9	20.0	104	61 - 144
Carbon Tetrachloride	15.9	20.0	79	64 - 129
Chlorobenzene	19.4	20.0	97	80 - 121
Chloroethane	17.9	20.0	90	69 - 128
Chloroform	17.8	20.0	89	75 - 123
Chloromethane	18.2	20.0	91	55 - 139
Dibromochloromethane	18.3	20.0	92	78 - 127
1,1-Dichloroethane	18.2	20.0	91	76 - 128
1,2-Dibromoethane	21.6	20.0	108	81 - 118
1,2-Dichloroethane	17.6	20.0	88	72 - 130
1,1-Dichloroethene	22.0	20.0	110	74 - 135
cis-1,2-Dichloroethene	19.8	20.0	99	77 - 123
trans-1,2-Dichloroethene	19.6	20.0	98	72 - 120
1,2-Dichloropropane	19.2	20.0	96	80 - 119
cis-1,3-Dichloropropene	18.4	20.0	92	77 - 125
trans-1,3-Dichloropropene	17.5	20.0	87	69 - 127
Ethylbenzene	18.4	20.0	92	75 - 123
2-Hexanone	18.5	20.0	92	61 - 131
Methylene Chloride	19.5	20.0	98	73 - 122
4-Methyl-2-pentanone (MIBK)	18.9	20.0	95	61 - 132
Styrene	19.9	20.0	100	80 - 121
1,1,2,2-Tetrachloroethane	20.6	20.0	103	72 - 124
Tetrachloroethene	18.7	20.0	94	71 - 127
Toluene	18.5	20.0	93	77 - 120
1,1,1-Trichloroethane	16.7	20.0	83	67 - 121
1,1,2-Trichloroethane	20.6	20.0	103	81 - 117
Trichloroethene	18.5	20.0	92	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: On-Site Technical Services, Inc.
 Project: Wellsville-Andover LF/Annual Sampling
 Sample Matrix: Water

Service Request: R1307945
 Date Analyzed: 11/7/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 367216

Lab Control Sample
 RQ1314063-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	18.6	20.0	93	68 - 139
o-Xylene	19.6	20.0	98	77 - 131
m,p-Xylenes	38.4	40.0	96	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

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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CHAIN of CUSTODY
Project: **WAL - Annual Sampling**
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Method of Shipment

Special Detection Limit/Reporting

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	GC:MS VOA's 8260 (HCl)	GC:MS VOA's 524.2 (C6H806)	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)	TDS, NO3 (NP) (Manhole)	Phenols + TOC (H2SO4)
			Soil	Water	Air	Other	Yes	No												
MW16S-1013		4	X			X		10-22-13	0930	X	X									
CW3B-1013		4	X			X		10-22-13	1256	X	X									
CW4B-1013		4	X			X		10-22-13	1105	X	X									
CW3A-1013		4	X			X		10-22-13	1256	X	X									
CW4A-1013		4	X			X		10-22-13	1105	X	X									
SWS1-1013		10	X			X		10-22-13	0955	X	X	X	X	X	X	X			X	
SWS1SED-1013		3	X				X	10-22-13	1015	X	X	X	X	X	X	X			X	
MH32-1013		5	X			X		10-22-13	1346	X	X							X		
MH33-1013		5	X			X		10-22-13	1410	X	X							X		

REMARKS

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

Relinq. by sampler (Sign & Print Name) <i>[Signature]</i> / <i>Tommas Reed</i>	Date 10-22-13	Time 1800	Received by (Sign & Print Name) <i>[Signature]</i> / <i>Craig Packard</i>	Date 10/23/13	Time 0955
Relinquished by	Date	Time	Received by		
Relinquished by	Date	Time	Received by		
Relinquished by	Date	Time	Received by laboratory	Date	Time

Lab Work No.

191

R1307945 **5**
On-Site Technical Services, Inc.
Wellsville-Andover LF



Cooler Receipt and Preservation Check Form

Project/Client _____ Folder Number _____

Cooler received on 10/23 by: CP COURIER: ALS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? ALS/ROC, CLIENT
7. Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
8. Temperature of cooler(s) upon receipt: 1.6

Is the temperature within 0° - 6° C?: Y N Y N Y N Y N Y N
If No, Explain Below Date/Time Temperatures Taken: 10/23 1002

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R002 by CP on 10/23 at 1012
5035 samples placed in storage location _____ by _____ on _____ at _____

PG:Secondary,Review: _____

Cooler Breakdown: Date: 10/24 Time: 0900 by: JFS

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	YES NO		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
		YES	NO							
≥12	NaOH									No = Samples were preserved at lab as listed
≤2	HNO ₃	✓		BDB26131C	10/14					
≤2	H ₂ SO ₄	✓		WC126060F	10/14					
<4	NaHSO ₄									
Residual Chlorine (-)	For TCN Phenol and 522	✓		If present, contact PM to add ascorbic acid Or sodium sulfite (522)						PM OK to Adjust:
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet				
	Zn Aceta	-	-							
	HCl	*	*	4112070	10/14					

Bottle lot numbers: 081213-2AB1, 070113-12, 090913-2AA0, 090213-1BMC

Other Comments: * 1 vial, 8260 SWS1-10/13 0955
* 3 vials Trip blank, 11/01/12 @ 6:50 LyG.E. Note: Last Year!

PC Secondary Review: [Signature] 10/23/11

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



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 - Annual Sampling**
Telephone No. 585-593-1824
Email: jonb@on-sitehs.com

Page 1 of 1
Method of Shipment
Special Detection Limit/Reporting

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	GC:MS VOA's 8260 (HCl)	GC:MS 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)	TDS, NO3 (NP) (Manhole)
			Soil	Water	Air	Other	Yes	No											
MW 115-1013		4	X			X		10-23-13	0905	X	X								
D0P1-1013		4	X			X		10-23-13	0920	X	X								
MW185-1013		4	X			X		10-23-13	1045	X	X								
MW 170-1013		4	X			X		10-23-13	1405	X	X								
MW 180-1013		4	X			X		10-23-13	1220	X	X								
MW 175-1013		4	X			X		10-23-13	1415	X	X								
CS1-1013		4	X			X		10-23-13	1445	X	X								
MW30-1013		4	X			X		10-23-13	1010	X	X								
MW 35-1013		4	X			X		10-23-13	1215	X	X								
MW 40-1013		4	X			X		10-23-13	1415	X	X								
MW 155-1013		4	X			X		10-23-13	0845	X	X								
E01-1013		4	X			X		10-24-13	0845	X	X								
MW 55-1013		4	X			X		10-24-13	1115	X	X								
MW 50-1013		4	X			X		10-24-13	1235	X	X								

M3/M5D
S
X
R
A
M
E
R

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

Relinq. by sampler (Sign & Print Name) <i>[Signature]</i> / Travis Reed	Date Time 10-24-13 1600	Received by (Sign & Print Name) <i>[Signature]</i> Gregory O. Esmerlan	Lab Work No.
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by laboratory Date Time	

R1307945
On-Site Technical Services, Inc.
Wellsville-Andover LF
5



Cooler Receipt and Preservation Check Form

Project/Client ON-Site Folder Number R13-7445

Cooler received on 10-25-13 by: ME COURIER: ALS UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES* NO N/A
- Were Ice or Ice packs present? YES NO
- Where did the bottles originate? ALS/ROO, CLIENT
- Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
- Temperature of cooler(s) upon receipt: 0.7

Is the temperature within 0° - 6° C?: YN Y N Y N Y N Y N
If No, Explain Below Date/Time Temperatures Taken: 10-25-13 @ 9:32

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R002 by ME on 10-25-13 at 09:35
5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: _____

Cooler Breakdown: Date: 10/25/13 Time: 1535 by: SW

- 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
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
		YES	NO							
≥12	NaOH									No = Samples were preserved at lab as listed
≤2	HNO ₃	<u>✓</u>		<u>80876131C</u>	<u>10/14</u>					
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)						PM OK to Adjust:
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet				
	Zn Aceta	-	-							
	HCl	*	*	<u>4112070</u>	<u>10/14</u>					

Bottle lot numbers: 090913-2AA0, 082613-2AAW
Other Comments:

* Trip Blank has all 3 vials with significant headspace. Trip blank was filled by G.E. on 4-11-12. HCl for T.B. expired 3/13.

PC Secondary Review: ME 10/25/13

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



ALS-Environmental
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585.288.5380

Client: **On-Site**
72 Railroad Ave.
Wellsville, NY 14895

Project Manager: **Jon Brandes**

CHAIN of CUSTODY

Project: **WAL - Annual Sampling**

Telephone No. 585-593-1824 Email: jonb@on-sitehs.com

Method of Shipment

Special Detection Limit/Reporting

Sample I.D.

Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	GC:MS VOA's 8260 (HCI)	GC:MS 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)	TDS, NO3 (NP) (Manhole)
		Soil	Water	Air	Other	Yes	No											
WAL19 Pre-1013	3	X				X		10-25-13	0815	X								
WAL19 Inter-1013	3	X				X		10-25-13	0810	X								
WAL19 Post-1013	3	X				X		10-25-13	0805	X								

REMARKS

R1307945
On-Site Technical Services, Inc.
Wellsville, Andover, VT
5

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

Relinq. by sampler (Sign & Print Name)	Date	Time	Received by (Sign & Print Name)
<i>[Signature]</i> / Travis Reed	10-25-13	0900	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory
			<i>[Signature]</i>
			Date
			10/26/13
			Time
			0925

Lab Work No.

105



Cooler Receipt and Preservation Check Form

Project/Client On-site (WAE) Folder Number R13-7945

Cooler received on 10/24/13 by: A COURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? ~~YES~~ NO
- Did all bottles arrive in good condition (unbroken)? ~~YES~~ NO
- Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? ~~YES~~ ~~NO~~ N/A *1 vial Trip Blank*
- Were Ice or Ice packs present? ~~YES~~ NO
- Where did the bottles originate? ~~ALS/ROC~~ CLIENT
- Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set ~~(N/A)~~
- Temperature of cooler(s) upon receipt: 0.3°

Is the temperature within 0° - 6° C?: Y N Y N Y N Y N Y N

If No, Explain Below Date/Time Temperatures Taken: 10/24/13 1009

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R-002 by A on 10/24/13 at 1010
5035 samples placed in storage location _____ by _____ on _____ at _____

PG:Secondary Review: _____

Cooler Breakdown: Date: 10/21/13 Time: 0950 by: A

- 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
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: Trip Blank not on C.C.R.

pH	Reagent			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
		YES	NO							
≥12	NaOH									No = Samples were preserved at lab as listed
≤2	HNO ₃									
≤2	H ₂ SO ₄									
<4	NaHSO ₄									PM OK to Adjust: _____
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)						
	Na ₂ S ₂ O ₃	-	-							
	Zn Aceta	-	-							
	HCl	*	*	<u>WC 12665184</u>	<u>10/14</u>					

Bottle lot numbers: 3-212-001

Other Comments:

PC Secondary Review: IMP 10/28/13

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter