US Army
Engineering &
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Huntsville, AL

DRAFT 2019 LONG-TERM MONITORING ANNUAL REPORT
FIRE TRAINING AND DEMONSTRATION PAD (SEAD 25)
SENECA ARMY DEPOT ACTIVITY

DRAFT

SEPTEMBER
2019

Seneca Army Depot Activity
Romulus, New York

USACE – New York District
US Army, Engineering & Support Center
Huntsville, AL

Draft 2019 Long-Term Monitoring Annual Report

Fire Training and Demonstration Pad (SEAD 25)
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Contract No. W912DY-09-D-0062
Task Order No. 0023
EPA SITE ID# NY0213820830
NY Site ID# 8-50-006

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2019 LONG-TERM MONITORING ANNUAL REPORT

FOR THE FIRE TRAINING AND DEMONSTRATION PAD (SEAD 25)
SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK

Prepared for:

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Contract Number W912DY-09-D-0062
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ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
AOC	Area of Concern
bgs	below ground surface
BTEX	Benzene, Toluene, Ethyl Benzene, Xylenes
CCR	Construction Completion Report
cis-DCE	cis-1,2-dichloroethene
cm	centimeter(s)
cm/sec	centimeter(s) per second
COC	contaminants of concern
cy	cubic yards
DCA	dichloroethane
DCE	dichloroethene
DO	Dissolved Oxygen
DoD	Department of Defense
ESI	Expanded Site Investigation
ft/ft	feet per foot
ID	identification
LTM	long-term monitoring
LUC(s)	land use control(s)
MEE	Methane, ethene, ethane
mg/L	milligram(s) per liter
mV	millivolts
NA	not applicable
ND	not detected
NELAC	National Environmental Laboratory Accreditation Conference
NELAP	National Environmental Laboratory Accreditation Program
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation-reduction potential
Parsons	Parsons Federal
PCE	perchloroethene [tetrachloroethene]
PCMM	Post Closure Monitoring and Maintenance
PID	Planned Industrial/Office Development
PFAS	per- and polyfluoroalkyl substances
RA	Remedial Action
RDR	Remedial Design Report
RI	Remedial Investigation
ROD	Record of Decision
SEDA	Seneca Army Depot Activity
SVOC	Semi-Volatile Organic Compound
TCE	trichloroethene
U.S.	United States
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
VC	vinyl chloride
VOC	volatile organic compound

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Chapter 1 Introduction

This report provides a review of the 2019 (Event 16) long-term groundwater monitoring (LTM) sampling event conducted in March 2019 at the Fire Training and Demonstration Pad (SEAD-25) at the Seneca Army Depot Activity (SEDA or Depot) in Seneca County, New York. This document provides recommendations for future LTM and a review of the effectiveness of the remedy implemented at SEAD-25 in 2005. This report was issued by Parsons Federal (Parsons) on behalf of the U.S. Army (Army) Engineering and Support Center, Huntsville and the Seneca Army Depot Activity.

Both SEAD 25 and SEAD 26 have recently been reopened and the groundwater sampled for per- and polyfluoroalkyl substances (PFAS); however, this report focuses on the decisions made in accordance with the *Record of Decision (ROD) for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26)* (Parsons, 2004) and the *Final Remedial Design Work Plan and Design Report (RDR) for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26)* (Parsons, 2005). A Remedial Action (RA) was completed in November 2005 for both area of concerns (AOCs) and the results of the actions were documented in the *Construction Completion Report for SEAD-25 and SEAD-26, Final (CCR)* (Parsons, 2006a). The SEAD 25 RA involved the removal of approximately 1,722 cubic yards (cy) of soil and sediment impacted by volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) at SEAD-25. With the approval of the Environmental Protection Agency (EPA) and the New York State Department of Environmental Conservation (NYSDEC), groundwater monitoring at SEAD-26 was terminated by the Army after the first year of sampling and analysis indicated that no COCs were present in the groundwater at concentrations above defined cleanup goals.

Long-term groundwater monitoring is being performed at SEAD-25 as part of the continuing post-closure monitoring and maintenance (PCMM) operations as described in the RDR. Groundwater monitoring was required at the AOC as a condition of the ROD since contaminant concentrations found in the groundwater at the AOCs prior to the RA exceeded applicable groundwater standards. Semi-annual groundwater monitoring of the ten monitoring wells (MW25-2, MW25-3, MW25-8, MW25 9, MW25-10, MW25-13, MW25-15, MW25-17, MW25-18, and MW25-19) located at SEAD-25 continued through 2013. The EPA and NYSDEC agreed, as recommended in the SEAD-25 Fourth Long-Term Monitoring and Site Review Report (Parsons, 2011c) and Draft Final Five-Year Review Report (Parsons, 2011d), to reduce the frequency of the semi-annual monitoring events to annual monitoring events. It was also agreed to reduce the number of wells to be monitored from ten to five since the down-gradient wells have shown no COCs during any of the post-RA sampling events. Beginning in 2014, the focus of the sampling effort shifted to wells MW25-2, MW25-3, MW25-9, MW25-10 and MW25-17 where historic information indicates that COCs of interest were detected.

Table 1 presents a summary of the historic LTM sampling and analysis events that were conducted at SEAD-25 since the completion of the RA activities. Sixteen (16) LTM sampling events, including the most current event completed in the first quarter of 2019 (2019Q1), were conducted at SEAD-25 since the completion of the RA at the site in late 2005. This 2019 LTM Report provides the details of activities conducted during the annual LTM event in March 2019. This Report also provides an overall summary of the data collected at SEAD-25 since LTM began in late 2005.

Chapter 2 Site Background

2.1 Site Description

The Seneca Army Depot is a 10,587-acre former military facility located in Seneca County in the towns of Romulus and Varick, New York, which was owned by the United States Government and operated by the Department of the Army between 1941 and 2000. The general location of the SEDA is shown on **Figure 1**. In 1999, SEDA's military mission was terminated and the installation was closed in 2000. Since 2000, the Army has assumed a caretaker role at the SEDA, pending the close-out of environmental investigations, studies, and remedial activities that are required at the former facility. As part of SEDA close-out activities, more than 8,250 acres of land within the former Depot was transferred to new owners for reuse.

The Seneca Army Depot is located between Seneca Lake and Cayuga Lake in Seneca County and is bordered by New York State Highway 96 on the east, New York State Highway 96A on the west, and sparsely populated farmland to the north and south. The Fire Training and Demonstration Pad (SEAD-25) is located in the east-central portion of SEDA. The site is bounded to the east by Administration Avenue, beyond which is undeveloped land covered by deciduous trees; to the south by Ordnance Drive beyond which is an open grassy field and a stand of coniferous trees; to the west by a drainage ditch running from the northeast to the southwest with grassland, brush and conifers between the site and the ditch; and, to the north by grassland and a former baseball field. A site map of the SEAD-25 area and its location within the SEDA is included as **Figure 2**. As situated, SEAD-25 sits a minimum of 1,350 feet away from the nearest SEDA boundary, which is located to the east of the AOC. SEAD-25 was in use from the late 1960s to the late 1980s. The former pad was used for fire control training. During the 1980s, the pad was used twice for fire-fighting demonstrations, including one demonstration in 1982 or 1983, and one in 1987.

2.1.1 SITE HYDROLOGIC AND GEOLOGIC CONDITIONS

The hydrogeologic setting for SEAD-25 was previously described in detail in Section 3.1.6 of the Final RI Report (Parsons Engineering Science, Inc., 1998). A brief summary of hydrologic conditions described in the RI Report and historical groundwater conditions encountered during previous sampling events is presented below. Hydrologic conditions, as observed during the 2019 LTM event, are discussed in Section 3.1 of this LTM report. Groundwater contours presented in the RI Report indicate that shallow groundwater flow below the pad is radial, with a stronger horizontal gradient to the south and west. The radial groundwater flow observed below the pad at SEAD-25 is believed to be a local phenomenon influenced by a bedrock topographic high located beneath the pad. The RI Report identified a west and southwest direction of groundwater flow in the deeper, competent shale bedrock.

The horizontal hydraulic gradients, as presented in the RI Report, ranged from 0.01 feet per foot (ft/ft) to 0.02 ft/ft in both the shallow saturated zone located in the till/weathered shale bedrock and in the deep saturated zone located in the competent shale bedrock. The hydraulic conductivities at SEAD-25 were found to range from 1.0×10^{-5} centimeters per second (cm/sec) to 3.4×10^{-3} cm/sec, with an average of 6.1×10^{-4} cm/sec in the shale/weathered bedrock. Both downward and upward vertical gradients were calculated for SEAD-25; the downward hydraulic gradients ranged from -0.04 ft/ft to -0.21 ft/ft, and upward hydraulic gradients ranged from 0.01 ft/ft to 0.07 ft/ft.

SEAD-25 is located very near a combined topographic and bedrock high within the east central portion of the former Depot. As such, all recharge to the local groundwater table comes from infiltration of storm-event precipitation percolating through the surface into the underlying aquifer at, and in very close proximity to, the

AOC. Infiltration rates are hindered because much of the storm-event precipitation is captured in neighboring drainage ditches and is conveyed to lower elevation areas within the Depot, which are down-gradient of the AOC's well recharge area.

The shallow overburden underlying SEAD-25 is thin, consisting of a till and fractured shale ranging from roughly 5 to 15 feet in thickness, which overlies competent shale bedrock. The monitoring wells sampled as part of SEAD-25 LTM effort are located in the shallow, overburden aquifer where the groundwater contamination was originally identified. As such, the combination of run-off and low infiltration or aquifer recharge periods that occur during extended dry or low water periods cause the overburden water table to thin to levels where samples cannot be collected from many of the wells and historically has not allowed a strict adherence to a semi-annual sampling schedule. This affects the collection of samples from one or more of the three source wells (MW25-2, MW25-3, and MW25-9). These wells are located closest to the former source area that was removed during the 2005 RA activities and historically have shown elevated levels of BTEX (i.e., benzene, toluene, ethyl benzene, and total xylenes) and chlorinated organic compound content.

2.2 Soil and Groundwater Impacts

As described in the RI Report (Parsons, 1998), the primary COCs historically observed at SEAD-25 included aromatic VOCs (benzene, toluene, ethyl benzene, and total xylenes [BTEX]) in soil and groundwater and lesser amounts of five chlorinated VOCs, including 1,1,1-trichloroethane, 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethene (total) (1,2-DCE), chloroform, and trichloroethene (TCE), in groundwater. Vinyl chloride (VC), a degradation product of TCE and 1,2-DCE, was identified above its cleanup goal (2.0 micrograms per liter [µg/L]) at a concentration of 2.6 µg/L in MW25-2 during event 8 LTM and thus is included in the list of COCs at the site.

The pre-remedial action impacts from BTEX compounds occurred at three soil sample locations (SB25-3, SB25-4, and SB25-5) clustered together in the western half of the pad. The vertical impacts extended from the land surface to a depth of 4 to 6 feet below ground surface (bgs), which corresponds approximately to the top of competent bedrock (encountered at approximately 4.5 feet bgs during the RA). The highest concentrations of BTEX were detected at soil boring SB25-5, measuring 15,810 micrograms per kilogram (µg/kg), 151,500 µg/kg, and 10,200 µg/kg at depth intervals of 0-2 feet, 2-4 feet, and 4-6 feet bgs, respectively. Lower concentrations of BTEX were detected in the surface soil at sample locations SB25-3 (5,410 µg/kg) and at SB25-4 (2,900 µg/kg), respectively.

Impacts to soil located in the adjacent drainage swales at SEAD-25 were also noted and were mainly associated with SVOCs, pesticides, and heavy metals. The most significant impacts from SVOCs and metals were found in the drainage swale northwest of the pad. In the ditch that runs along the west side of Administration Avenue where it turns west along Ordnance Drive, the most significant SVOC impact was found in a single upgradient location. No COCs were identified in SEAD-25 surface water in concentrations that indicated remediation was required, and therefore remediation of surface water was not performed.

Based on the Final RI results, the primary groundwater impact was associated with two overlapping VOC plumes located in the overburden, both of which originated in the southwestern portion of the Fire Training and Demonstration Pad near the locations of the contaminated soil. Chlorinated ethenes and BTEX constituents were not detected in any of the six bedrock wells sampled during the RI at SEAD 25. The primary plume observed during the RI measured approximately 200 feet long and was composed of aromatic hydrocarbon compounds that are typically associated with gasoline (i.e., BTEX). The maximum concentration of total BTEX detected in the groundwater during the RI was 6,220 µg/L at well MW25-2. During the Expanded Site Investigation (ESI) (Parsons, December 1995), the maximum concentration of total chlorinated organics (96 µg/L) was also detected at well MW25-2.

2.3 Summary of the Remedial Action

The excavation of the BTEX-impacted soil at the SEAD-25 pad began on November 15, 2005 and was completed on December 1, 2005, with soil removal totaling approximately 961 cy. The depth of excavation extended to the top of the competent shale bedrock, or approximately 4.5 feet bgs. Ten confirmatory soil samples (plus one duplicate sample) were collected from the sidewalls of the excavation area and analyzed for VOCs and SVOCs. The analytical results of the confirmatory soil sample analyses achieved the site-specific cleanup goals, and the Army determined that soils at SEAD-25 did not require further action. The EPA and NYSDEC concurred with this determination that the excavation of the soil at the pad removed the source of groundwater contamination.

Excavation of the SVOC-impacted soil in the swale at SEAD-25 began on November 7, 2005 and was completed on November 8, 2005. The soil excavation extended to bedrock from the toe of slope on one bank to the toe of slope on the other bank, resulting in the removal and off-site disposal of approximately 761 cy of soil from SEAD-25. After the excavation, the swale bottom consisted of exposed competent bedrock, and since no native overburden soil remained in the swale, no confirmatory samples were collected or analyzed.

A total of approximately 1,722 cy (approximately 2,600 tons) of soil were excavated from the pad and the swale at SEAD-25 and disposed off-site at Ontario County Landfill. The pad excavation was backfilled with approximately 793 cy of on-site fill material and 168 cy of fill material obtained from an off-site source and restored to the existing grade.

2.4 Natural Attenuation Process Evaluation

One of the purposes of long-term groundwater monitoring at SEAD-25 is to show that continued natural attenuation of the groundwater plume is occurring. This section gives a brief overview of the natural attenuation process and how the process can be evaluated. Numerous natural processes contribute to the reduction in dissolved phase contaminant concentrations over distance and time and are referred to as natural attenuation. These processes include sorption, dilution, dispersion, volatilization, and biodegradation. Of these, biodegradation is of primary interest because this process destroys the contaminant, and because at many sites, it is the primary attenuation mechanism. The EPA's Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water (USEPA, 1998) can be used as guidance to determine if natural attenuation is occurring at SEAD-25.

Numerous laboratory and field studies have shown that many organic compounds are readily biodegraded via naturally occurring processes. Benzene and other petroleum hydrocarbons biodegrade readily under aerobic (oxygen-rich) conditions and have also been shown at multiple sites to biodegrade under anaerobic (oxygen-poor) conditions. Chlorinated ethenes biodegrade under anaerobic conditions through a process referred to as reductive dechlorination. Some chlorinated ethenes can also be biodegraded via direct aerobic oxidation (aerobic conditions).

Geochemical data including potential electron acceptors, biodegradation byproducts, and related analytes can be used as an indirect measure to show that organic compounds are biodegrading in saturated soil and groundwater. Depressed concentrations, when compared to background levels, of electron acceptors such as nitrate, oxygen, and sulfate that are used by microorganisms to facilitate the oxidation of VOCs within groundwater are geochemical indicators that VOCs are biodegrading. Similarly, elevated concentrations of biodegradation byproducts, such as iron II (Fe 2+), in groundwater are also geochemical indicators that compounds are biodegrading. Depressed oxidation/reduction potential (ORP) may also indicate the occurrence of biodegradation.

Biodegradation of chlorinated organics requires the presence of natural or anthropogenic carbon to create the conditions (anaerobic, low redox potential) necessary to stimulate reductive dechlorination of the more

chlorinated solvents such as tetrachloroethene or perchloroethene (PCE) and TCE. Daughter products of these compounds (dichloroethene, or DCE; and VC) can be reductively dechlorinated under reducing conditions or directly oxidized under aerobic (oxidizing) conditions. Therefore, indicators of conditions appropriate for chlorinated biodegradation includes those parameters, such as methane, already identified for petroleum biodegradation and the presence of chlorinated daughter products and chloride. It should be noted, however, that the presence of road salt applied during the winter months may interfere with chloride data interpretation. The most common road salt is sodium chloride (NaCl), other commonly used road salt include calcium chloride (CaCl) and potassium chloride (KCl). Chloride ions are very soluble and mobile and can enter the groundwater by infiltration or surface water runoff.

Trends in natural attenuation parameters are more evident when higher concentrations of contaminants are present to naturally attenuate. At SEAD-25, trends in natural attenuation parameters are difficult to interpret since the contaminant concentrations are low, and have remained this way since the completion of the RA.

2.5 Well Decommissioning

The shallow saturated zone monitoring well MW25-11 and six deep saturated zone monitoring wells (MW25-4D, MW25-5D, MW25-7D, MW25-12D, MW25-14D, and MW25-16D) at SEAD-25 were removed in September 2010 as part of a SEDA-wide well decommissioning project; information pertinent to the well decommissioning project is provided in the *Final Well Decommissioning Report* (Parsons, 2013a). The location of decommissioned and existing SEAD-25 monitoring wells, including latitude/longitude and northing/easting coordinates, and well elevation information, are provided in **Table 2**.

2.6 Land Use Control Inspection

SEAD-25 was inspected during the 2018 LTM event for compliance with the Land Use Control (LUC) restrictions that are in effect for AOCs located within the Planned Industrial/Office Development (PID) and Warehouse Area at the former Depot. Land Use Controls for the PID/Warehouse Area implement and maintain requirements to:

- Prohibit the development and use of property for residential housing, elementary and secondary schools, childcare facilities, and playgrounds; and
- Prohibit access to or use of the groundwater, other than for monitoring purposes, until the applicable NYSDEC Class GA Groundwater Standards are met.

No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-25. The 12 LTM groundwater monitoring wells were identified at SEAD-25 during the site visit. As discussed previously, many of the wells on the SEAD-25 site were decommissioned in September 2010.

Chapter 3 Long-Term Monitoring Results

3.1 2019 Sampling Event

The 2019 sampling event was completed at SEAD-25 during the week of 18 March 2019. Field forms documenting the collection of groundwater samples are provided in **Appendix A**. Groundwater laboratory analytical reports for this event are provided in the electronic copy of this report as **Appendix B**. Sampling procedures, sample handling and custody, holding times, and collection of field parameters were conducted in accordance with the *Final UFP-QAPP for Seneca Army Depot Activity* Long-Term Monitoring (Parsons, 2017).

Water level measurements were collected from the 12 monitoring wells at SEAD-25; however, as discussed above, only five wells (MW25-2, MW25-3, MW25-9, MW25-10 and MW25-17) were sampled. Groundwater samples were collected using low-flow sampling techniques and were analyzed for VOCs and natural attenuation parameters. A low-flow bladder pump was used to purge wells; following purging, samples were collected from each of the five wells for analysis of VOCs, sulfate, nitrate/nitrite, chloride, sodium, iron, methane, ethane, and ethene (MEE). Samples were submitted to Katahdin Analytical Laboratory in Scarborough, Maine. Analytes and analysis methods used are summarized below:

- VOCs – EPA SW846 Method 8260C
- MEE – RSK-175
- Nitrate and Nitrite – EPA Method 353.2
- Chloride – EPA Method 300.0
- Sulfate – EPA Method 300.0
- Iron – EPA SW846 Method 6010C
- Sodium – PA SW846 Method 6010C

Katahdin Analytical Laboratory is certified by the Department of Defense (DoD) and the National Environmental Laboratory Accreditation Conference (NELAC) National Environmental Laboratory Accreditation Program (NELAP) for the above analyses/analytical methods for both potable and non-potable water.

Analytical results reported for the primary COCs (i.e., BTEX, and five chlorinated VOCs) and other detected VOCs were compared to New York State GA groundwater standards. Results of the other analyses conducted were used to assess if there is evidence that natural attenuation is occurring.

The following indicator and geochemical parameters were measured and recorded in the field:

- Sulfide
- pH
- Dissolved oxygen
- Conductivity
- Temperature
- ORP
- Turbidity

Sulfide concentration was measured in the field using a Hach® colorimeter test at well locations. Indicator parameters were collected at all five wells (**Table 5**).

3.2 Groundwater Elevations

SEAD-25 Event 16 groundwater elevation data were recorded on March 18, 2019. Groundwater elevation data (events 14-16) and the historic post-2005 soil-removal action groundwater elevation range for the site are presented in **Table 3**. **Appendix C** provides groundwater elevations recorded from 2006 to 2019 and groundwater elevation measurements performed between LTM sampling events. Groundwater elevation trends for SEAD-25 wells during the 16 LTM events performed from 2006 through 2019 are summarized on **Figure 3A** (Northern Profile) and **Figure 3B** (Southern Profile). Event 16 groundwater elevations ranged from 737.15 feet above mean sea level (amsl) in well MW25-13 to 742.86 feet amsl in well MW25-3. Groundwater elevations

observed during this event are broadly similar to those observed during the March 2018 (event 15) sampling event.

Groundwater contours were generated based on the groundwater elevation data collected on 18 March 2019 and are consistent with historic groundwater contour interpretation supporting the presence of a radial groundwater flow pattern beneath the pad (**Figure 4**). Contour interpretation indicates that shallow groundwater flow is radial, with a predominant flow direction to the south/southwest. The highest elevations located in the area of the former Fire Training and Demonstration Pad where soil removal was conducted in 2005.

3.3 Analytical Data Summary

3.3.1 2019 LTM RESULTS

During the 2019 sampling event, six groundwater samples (including one duplicate sample from MW25-2) were collected for the analysis of VOCs. A summary of the primary COCs detected for event 16 are presented in **Table 4**, along with the applicable NYSDEC Class GA groundwater standards. The laboratory analysis reports are provided in the electronic copy of the report as **Appendix B**. A summary of the analytical results for each LTM event is provided in **Appendix D**. The data validation sheets are provided in **Appendix E**; there were no non-compliance issues reported.

During the 2019 sampling event, only one BTEX VOC was detected (**Table 4**). Benzene was detected only at MW25-2 in both the parent and duplicate at an average concentration of 4.05 µg/L which was above the applicable groundwater cleanup standard (1 µg/L). No other BTEX VOCs were detected in any of the other sampled wells.

Chlorinated VOCs were detected in one well (MW25-2) (**Table 4**). All of the detections were estimated (J-flagged) and none of the detected compounds exceeded applicable NYSDEC Class GA groundwater standards.

A summary of the range of concentrations for the primary COCs found during the SEAD-25 LTM monitoring event is presented below in **Exhibit 3.1.** With the exception of benzene in monitoring well MW25-2, results from the 2018 sampling event indicate that none of the other primary COCs exceeded applicable groundwater cleanup standards.

Exhibit 3.1 SEAD-25 2019 LTM Concentration Ranges Compared to NYSDEC Class GA Groundwater Standards		
COCS	SEAD-25 2019 LTM CONCENTRATION MAXIMUM (µG/L)	NYSDEC GA GROUNDWATER STANDARD (µG/L)
Benzene *	5.3 J	1
Toluene *	ND	5
Ethylbenzene *	ND	5
Xylene (total) * Ortho Xylene Meta/Para Xylene	ND NA NA	5 5 5
1,1,1-Trichloroethane *	ND	5
1,1-Dichloroethane (DCA)*	0.74 J	5
1,2-DCE (total) * Cis-1,2- DCE Trans-DCE	0.70 J 0.70 J ND	5 5 5
Chloroform *	ND	7
Trichloroethene *	0.37 J	5
Vinyl chloride	0.4 J	2

Notes:

* = Primary COCs, signified with *, and other detected VOCs used to calculate total chlorinated organics with concentrations in excess of GA groundwater standards during annual events, are reported.

NA = Not Analyzed; ND = non-detect; J = estimated value

3.3.2 SEAD-25 LTM ANALYTICAL SUMMARY

A summary of the historic groundwater sampling results for total BTEX and total chlorinated organics at SEAD-25 for the period from November 1995 (pre-RA) to March 2018 is presented on **Figure 5**. Total BTEX values were calculated using the following VOCs:

- benzene
- toluene
- ethyl benzene
- ortho xylene & meta/para xylene (if xylene total was not reported)
- xylene total (if meta/para and ortho xylenes were not reported)

Total chlorinated organics were calculated using the following VOCs:

- 1,1,1-trichloroethane (1,1,1-TCA)
- 1,1-dichloroethane (1,1-DCA)
- 1,2-dichloroethene total (if reported in lieu of cis- and trans-)
- cis-1,2-dichloroethene (if 1,2-dichloroethene total was not reported) (cis-DCE)
- trichloroethene (TCE)
- chloroform
- vinyl chloride (VC)
- trans-1,2-dichloroethene

3.3.2.1 BTEX ANALYTICAL SUMMARY

Analytical results from LTM since 1995 indicate that BTEX compounds were only observed in the three source wells at SEAD-25 (i.e., MW25-2, MW25-3, and MW25-9). These data indicate that the pre-RA (1993-1996) groundwater concentrations of BTEX compounds decreased once the RA was completed in 2006. Since the RA was completed, BTEX contaminants identified at SEAD-25 predominantly were detected in source wells MW25-2 and MW25-9, and less frequently in source well MW25-3.

Total BTEX concentrations in well MW25-2 ranged from 115.6 J µg/L (event 7) to a minimum concentration of 0.64 J µg/L (event 12) (**Figures 5 and 6A**). Historically, benzene and ethyl benzene are the contaminants most frequently detected in MW25-2 and are the contaminants most frequently found at levels above their respective GA standards in this well. In events 12 and 13 and the most recent event (16) benzene was detected in well MW25-2 only; in the two previous events (14 and 15) benzene has been restricted to wells MW25-2 and MW25-3.

At MW25-3, after the completion of the RA, total BTEX concentrations have not exceeded 5.5 µg/L (event 11) and have been non-detect in eight of sixteen LTM events, and BTEX has not been detected above the limit since 2015 (**Figures 5 and 6B**). The only BTEX compound to have exceeded its GA standard (1 µg/L) in this well is benzene - once in event 5 (1.7 µg/L), once in event 11 (1.8 µg/L), and once in event 15 (1.0 J µg/L).

Total BTEX concentrations in groundwater collected from MW25-9 ranged from 124 µg/L (event 1) to non-detect (events 6, 12, 13, and 16) (**Figures 5 and 6C**). Detections of BTEX compounds exceeded their respective GA standards in well MW25-9 five times (twice for benzene and once each for ethyl benzene, toluene, and total xylene). Four of these exceedances were observed during the first post-RA sampling event. Except for event 1, the only BTEX exceedance in well MW25-9 was benzene in event 4 (2.3 µg/L). No other BTEX components have exceeded their respective screening criteria in well MW25-9 except those detected during event 1.

3.3.2.2 CHLORINATED COCS ANALYTICAL SUMMARY

Analytical results from LTM since 1995 indicate that chlorinated organics were only observed in the three source wells at SEAD-25 (i.e., MW25-2, MW25-3, and MW25-9), with the exception of well MW25-10 with a concentration of 0.53 J µg/L (1,1,1-TCA) in event 2 and well MW25-19 where a concentration of 0.2 J µg/L (cis-DCE) was observed during event 3. The concentration of chlorinated COCs found in the groundwater at SEAD-25 decreased once the RA was completed and remained at non-detect to low aggregate parts per billion (µg/L) concentrations in all wells until events 7 and 8 (**Figure 5**).

During events 7 and 8, chlorinated VOCs in MW25-2 were detected at concentrations higher than previous events (**Figure 7A**). Concentrations were found to decrease during event 9, but increased in events 10 and 11; however, the concentrations of individual chlorinated VOCs have remained below their applicable GA standards since event 9. The elevated concentrations in events 7, 8 and 11 correspond with periods of low groundwater elevation and are assumed to be elevated as a result of the limited saturated thickness of the groundwater table at these times (**Figure 3B**). It is likely that there is residual mass of BTEX that remains in the shallow soil near well MW25-2 (perhaps near the bedrock surface trapped in till matrix). The mechanism is desorbtion: When the groundwater is higher and comes in contact with the BTEX in the soil, the contaminants desorb from the soil into the groundwater, resulting in a spiked increase in concentration.

Concentrations of chlorinated COCs in well MW25-2 ranged from 24.8 J µg/L (event 7) to non-detect (events 1, 2, 4, 12, and 13) (**Figures 5 and 7A**). In well MW25-2, individual chlorinated VOCs have not exceeded their applicable GA Standards since event 8.

Chlorinated COC concentrations in MW25-3 have been non-detect since the first RI (November 1995) (**Figures 5 and 7B**).

At well MW25-9, the total chlorinated COC concentration collected during event 1 was 5.44 µg/L; subsequent sampling events yielded non-detect values with the exception of event 12 (1.6 µg/L, TCE only) (**Figures 5** and **7C**). No individual chlorinated COCs have exceeded their applicable GA Standards in well MW25-9.

3.4 Data Trends and Natural Attenuation Evaluation

3.4.1 VOC DATA TRENDS

There are two main lines of evidence to determine whether natural attenuation is occurring:

1. Reduction in contaminant concentrations; and

2. Indirect geochemical indicators to assess the groundwater's assimilative capacity.

The primary line of evidence, reduction in VOC concentrations, is the only direct measure of the attenuation of a plume. Since the completion of the remedial action at SEAD-25, benzene, ethyl benzene, toluene, and xylenes are the predominant aromatic VOCs detected in the groundwater. The detections of these VOCs are found exclusively at the three source wells (MW25-2, MW25-3, and MW25-9) with the majority of the benzene and ethyl benzene exceedances found in MW25-2. Over time, the BTEX concentrations have declined in these three wells with toluene and xylene concentrations generally non-detect in MW25-3 and MW25-9 since event 1 (**Appendix D**).

Total BTEX concentrations in the three source wells (MW25-2, MW25-3, and MW25-9) have decreased from pre-RA levels (**Figure 5** and **Figures 6A, 6B,** and **6C**). At well MW25-2, BTEX concentrations fluctuate and have a moderate correlation with the saturated thickness at the time of sampling (**Figure 6A**). Elevated BTEX concentrations at MW25-2 are typically associated with lower groundwater levels. With two exceptions (events 5 and 11), BTEX concentrations at well MW25-3 are elevated due to a time of depressed saturated thickness (**Figure 6B**). With the exception of events 1 and 4, BTEX concentrations are consistently below screening criteria in well MW25-9 (**Figure 6C**). Except for a limited exceedance of benzene (1.7, 1.8, 1.0J µg/L) in well MW25-3 in events 5, 11 and 15, the BTEX concentrations of concern are restricted to well MW25-2.

Similarly, the concentrations of chlorinated COCs have decreased over time in the three source wells (**Figure 5** and **Figures 7A, 7B,** and **7C**). The concentrations of chlorinated COCs in well MW25-2 are variable; however, only 1,2-DCE, cis-DCE, and VC have exceeded their individual cleanup standards during events 7 or 8. In wells MW25-3 and MW25-9, no chlorinated VOCs have exceeded their individual GA standards during LTM. Only MW25-2 exhibits concentrations of chlorinated VOCs that have exceeded their respective GA standards. The most recent exceedance of a chlorinated VOC in well MW25-2 was in event 8 in which all of the results were estimated (J flagged).

Aromatic VOC concentrations in the three source wells (MW25-2, MW25-3, and MW25-9) generally indicate that the associated plume is attenuating (**Figures 8A, 8B, and 8C**). In the last four events the sole BTEX component to exceed its GA standard in well MW25-2 is benzene (**Figure 8A**). Further, MW25-2 is the only well at the site where BTEX COCs were detected in all of the consecutive LTM events, suggesting that the overall groundwater impact has lessened and that BTEX COCs are not migrating. The only BTEX compound detected during the 2019 event was benzene in well MW25-2 and could not be interpreted as a regression in the historical trend observed at this well but the absence of detection at all other wells indicate that a sitewide regression is taking place.

3.4.2 GEOCHEMICAL AND FIELD INDICATOR PARAMETER TRENDS

Geochemical parameters (iron II, sodium, chloride, nitrate/nitrite, sulfate, and methane/ethane/ethene laboratory analysis, and field-measured DO, ORP and sulfide analysis) provide an indirect indication of the natural

attenuation of the plume (Table 5). A review of historical field indicator data shows that no clear trends of degradation are observed across SEAD-25; however, some parameters measured in the source wells suggest limited evidence for anaerobic biodegradation.

Methane was detected in all of the five wells sampled during the 2019 sampling event at concentrations of 58.5 J µg/L (MW25-2), 11 µg/L (MW25-3), 30 µg/L (MW25-9), 3 J µg/L (MW25-10), and 2.3 J µg/L (MW25-17) (Table 5). The concentrations detected during the last two sampling events (Rounds 15 and 16) sampling event are higher than recent sampling events; however, historical concentrations of methane in wells MW25-2 and MW25-3 do not show a clear correlation between sampling events (Table 5). Historical levels of methane measured in the source wells have never exhibited concentrations better than the suggested benchmark of 0.5 mg/L or greater indicating that the wells are not methanogenic and this process is not improving the overall effectiveness of anaerobic reductive dechlorination or biodegradation.

Concentrations of nitrate in the source wells are approximately equal to or better than the suggested benchmark[1] (< 1 mg/L) for effective reductive dechlorination (Table 5). As discussed below, this value cannot be compared with background or upgradient concentrations to determine if an improving trend is found in the source area.

Parameters such as DO and ORP vary at each well location over time (Table 5). In the past, geochemical parameters have been conducive to reductive dechlorination (DO < 1 mg/L and ORP < 50)[2]; however, a comparison in the data trend cannot be made as there is no upgradient well. At monitoring well MW25-2, the predominant source well, during events 2 through 11 and events 13, 14, and 16, DO and ORP were measured at levels better than the suggested benchmark values for a likely reductive pathway (i.e., < 0.5 mg/L for DO and < 50 mV for ORP)[2]. During sampling event 16, DO was measured at levels greater than the suggested benchmark value in two of the five wells sampled, including wells MW25-10 (5.83 mg/L) and MW25-17 (8.78 mg/L) (Table 5). All of the wells sampled had ORP values less than the benchmark of 50mV (Table 5). In general, DO concentrations and ORP values at the two main sources wells (MW25-2 and MW25-3) have been conducive to reductive processes.

An assessment of other parameters (e.g., iron II, sodium, chloride) requires comparison to background concentrations or upgradient wells. Because of the radial groundwater flow pattern that exists at the site and the fact that the most contaminated wells are located near the central portion of the flow, determination of background conditions at SEAD-25 currently is not feasible. Overall, the review of the indicator parameters at well MW25-2 suggest that the VOCs are attenuating; indicator parameter results at the remaining monitoring wells are inconclusive due to the historic lack of VOC contamination at these wells and the sporadic sampling frequency due to lack of water measured in the wells. Overall, the geochemical parameters for event 16 are similar to historical levels although no clear trends are evident. Although this makes interpreting data collected from this event difficult, geochemical conditions (DO, ORP) at the source wells generally indicate an environment conducive to natural attenuation.

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[1] EPA (1998). Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater. September 1998.

Chapter 4 Remedy Evaluation

4.1 Conclusions

As discussed in Section 2.3, approximately 961 cy of VOC-impacted soil was removed from the location of the Fire Training and Demonstration Pad at SEAD-25 (**Figure** 2). The soil was removed to eliminate the source of VOCs which could have contributed to further groundwater degradation in the area. Since 2006, long-term groundwater monitoring continues to be conducted at SEAD-25 to show that the soil removal remedy is effectively eliminating further VOC releases from the vicinity of the former pad and that natural attenuation of the VOC plumes at SEAD-25 continues to improve the groundwater quality.

Groundwater concentrations of BTEX and chlorinated organics have decreased by more than 99% since the soil removal due to the natural attenuation process and the removal of the source material during RA activities in 2005 (**Figures 6 and 7**). Soil removal therefore is determined to be an effective remedy at SEAD-25.

The remedy for SEAD-25 required the implementation and maintenance of LUCs. The LUC requirements are detailed in the Final Record of Decision for SEAD-25 and SEAD-26 (Parsons 2004), Addendum 1 in the Land Use Control Remedial Design for SEAD 27, 66, 64A, Final (2006) and are additionally covered under the area-wide LUCs Planned Industrial/Office or Warehousing Area ("PID Area") (Parsons, 2004; 2006b). The selected LUCs for SEAD-25 are as follows:

- Prevent residential housing, elementary and secondary schools, childcare facilities and playground activities; and
- Prevent access to and use of groundwater at SEAD-25, for purposes other than required monitoring, until NYSDEC Class GA Groundwater Standards are met.
- The areas of SEAD-25 were inspected to determine if the LUCs are being maintained. While performing the groundwater sampling, it was confirmed that at SEAD-25 no facilities, as described above, were constructed and no access to or use of groundwater, other than the collection of required LTM samples of groundwater, was evident.

Chapter 5 Long-Term Monitoring Conclusions and Recommendations

5.1 Conclusions

- The concentrations of BTEX in the groundwater at SEAD-25 have decreased by up to two orders of magnitude since 1994;
- With the exception of MW25-2, COCs were not detected above cleanup goals in four of the five wells sampled during the 2019 LTM event;
- VOC concentrations at SEAD-25 have attenuated to levels close to or below the applicable groundwater standards;
- The general trends of the field indicator parameters for most of the LTM wells provide inconclusive evidence due to the historic lack of VOC contamination at these wells and the lack of an upgradient or background well for comparison; however, typically low DO and negative ORP values at MW25-2 suggests an environment conducive to anaerobic degradation;
- COCs are limited in concentration and are not migrating outside the vicinity of MW25-2. In general, any remaining contamination is restricted to the area in the vicinity of MW25-2;
- Based on evaluation of available LTM data, the soil excavation remedy at SEAD-25 has been effective;
- The land and groundwater use restrictions imposed at SEAD-25 are maintained as part of both the approved ROD for SEAD-25 and the larger Planned Industrial/Office or Warehousing Area ("PID Area") (Parsons, 2004; 2006b). There are no signs of unauthorized use or access; and,
- Based on the information and discussion provided above, it appears that BTEX concentrations observed at MW25-2 fluctuate in correlation with changes in saturated thickness of the groundwater table, indicating that the BTEX concentrations are largely influenced by dilution of a small, localized source.

5.2 Recommendations

Based on data collected over 12 years, BTEX COCs were reduced by two orders of magnitude, are now restricted to one well and are not migrating. Additionally, there is a current area-wide LUC prohibiting the use of groundwater within the PID Area (which includes SEAD-25). The Army recommends concluding LTM for VOCs at SEAD-25 because there is no planned future use of the groundwater. The presence of emerging contaminants (PFAS) were recently confirmed at the site and, as such, the monitoring well network will remain in place to support the PFAS investigation. Annual LUC inspections will continue to ensure that the groundwater is not accessed.

Chapter 6 References

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TABLES

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Table 1
Summary of SEAD-25 Long-Term Monitoring Events
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

M Event Number	Sampling Event Designation[1]	Sampling Begin Date	Sampling End Date	Report Date	Report Type	Notes
Event 1	2006Q1	01/24/06	01/31/06	05/31/06	Technical Memo	One sample collected 04/12/06
Event 2	2006Q3	08/07/06	08/14/06	12/07/06 & 02/02/07	Technical Memo and Annual Report	Recommendation to terminate sampling at SEAD-26
Event 3	2007Q2	06/07/07	07/07/07	09/10/07	Technical Memo	
Event 4	2008Q1	03/03/08	03/04/08	04/18/08 & 06/18/08	Technical Memo and Annual Report	
Event 5	2009Q2	04/28/09	04/29/09	06/17/09	Technical Memo	
Event 6	2010Q1	01/11/10	01/14/10	01/21/11	Annual Report	Includes Event 5
Event 7	2010Q3	08/03/10	08/06/10	01/21/11	Technical Memo	
Event 8	2011Q1	02/07/11	02/10/11	05/26/11	Annual Report	Includes Event 7. Recommended to reduce semi-annual sampling to annual sampling and reduce number of wells to be sampled from 10 to 5 wells.
Event 9	2012Q1	02/28/12	03/02/12	04/10/13	Annual Report	
vent 10	2013Q2	05/06/13	05/09/13	04/11/14	Annual Report	
vent 11	2014Q2	06/17/14	06/18/14	02/25/15	Annual Report	Number of wells sampled reduced from 10 to 5 wells.
vent 12	2015Q1	03/16/15	03/18/15	08/19/15	Annual Report	
vent 13	2016Q1	03/16/16	03/17/16	06/30/16	Annual Report	
vent 14	2017Q1	03/13/17	03/15/17	06/30/17	Annual Report	
vent 15	2018Q1	03/12/18	03/13/18	02/19/19	Annual Report	
vent 16	2019Q1	03/18/19	03/20/19	06/27/19	Annual Report	

es:
Event designation defined by year (XXXX) and quarter (QX) when samples were collected

Table 2
Monitoring Well Locations
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activitiy

Location ID	Northing [1]	Easting [1]	Loc_Elev [2]	Latitude [3]	Longitude [3]
MW25-1	998030.6639	751123.9323	740.3	42.73891679	-76.84050203
MW25-10	997966.2625	750999.2626	741.81	42.73873904	-76.84096538
MW25-11*	997865.7588	750955.8786	738.75	42.7384629	-76.84112574
MW25-12D*	997867.0397	750966.7103	738.89	42.7384665	-76.84108543
MW25-13	997864.8083	750869.3787	737.94	42.73845956	-76.84144772
MW25-14D*	997867.0994	750875.7165	738.23	42.7384659	-76.84142415
MW25-15	997972.6083	750764.5382	739.6	42.73875448	-76.84183921
MW25-16D*	997975.0098	750771.8704	739.75	42.73876113	-76.84181194
MW25-17	998188.4165	750964.1907	742.24	42.73934832	-76.84109846
MW25-18	998116.3641	751083.1527	743.05	42.73915161	-76.84065481
MW25-19	998136.6741	750763.1757	740.05	42.73920465	-76.84184615
MW25-2	998024.3007	750974.6108	743.76	42.73889808	-76.84105781
MW25-3	998079.4313	750926.4855	743.26	42.73904895	-76.84123758
MW25-4D*	998023.3883	750983.1189	743.81	42.73889565	-76.84102613
MW25-5D*	998081.3786	750938.3683	743.41	42.7390544	-76.84119337
MW25-6	998276.9972	751007.5574	742.24	42.73959174	-76.84093804
MW25-7D*	998279.0181	751016.2292	742.25	42.73959736	-76.84090578
MW25-8	998077.3072	750855.5452	741.36	42.73904253	-76.84150163
MW25-9	998004.1484	750898.1419	741.26	42.73884214	-76.84134223

Notes:

(1) Northing/Easting coordinates are based on New York State Plane NAD 83 coordinate system.

(2) Elevation measurements are based on New York State Plane NAD 83 coordinate system.

(3) Latitude and Longitude are in Universal Transverse Mercator (UTM) system and were obtained by converting the State Plane coordinates using U.S. Army Corps of Engineers Corpscon 6 software.

* = Indicates well was decommissioned in September 2010.
Bold location IDs denote the wells sampled in this event.

Table 3
SEAD-25 Groundwater Elevation Data
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft) [3]	Well Depth (ft)	Event 14 - March 13, 2017				Event 15 - March 12, 2018				Event 16 - March 12, 2019				LTM Rounds 1 through 16 Groundwater Elevation (ft) Max/Min Comparison and Range		
			Measured Well Depth (ft) [4]	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Measured Well Depth (ft) [4]	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Measured Well Depth (ft) [4]	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Maximum	Minimum	Range
MW25-1	743.00	7.77	7.75	1.74	6.01	736.99	7.80	2.17	5.63	737.37	7.80	2.12	5.68	737.32	738.17	736.43	1.74
MW25-2	746.36	11.31	11.15	6.61	4.54	741.82	11.24	7.00	4.24	742.12	11.25	7.05	4.20	742.16	742.52	739.45	3.07
MW25-3	746.34	9.58	9.81	5.47	4.34	742.00	9.78	5.97	3.81	742.53	9.80	6.32	3.48	742.86	743.25	738.55	4.70
MW25-6	744.44	14.27	14.21	9.90	4.31	740.13	14.15	10.90	3.25	741.19	14.20	10.89	3.31	741.13	741.54	736.51	5.03
MW25-8	742.46	5.47	5.45	3.11	2.34	740.12	5.41	3.62	1.79	740.67	5.42	3.67	1.75	740.71	740.96	737.30	3.66
MW25-9	742.36	5.42	5.41	3.37	2.04	740.32	5.40	3.79	1.61	740.75	5.40	3.89	1.51	740.85	741.03	737.41	3.62
MW25-10	743.01	6.20	6.40	3.41	2.99	740.02	6.37	3.97	2.40	740.61	6.38	4.00	2.38	740.63	741.63	736.88	4.75
MW25-13	739.64	5.70	5.50	2.06	3.44	736.20	5.46	2.82	2.64	737.00	5.48	2.99	2.49	737.15	739.83	734.46	5.37
MW25-15	741.00	7.20	7.22	4.07	3.15	737.85	7.20	4.65	2.55	738.45	7.19	4.13	3.06	737.94	739.03	734.03	5.00
MW25-17	743.94	11.60	11.30	8.28	3.02	740.92	11.24	9.10	2.14	741.80	11.26	9.11	2.15	741.79	742.22	737.16	5.06
MW25-18	744.35	11.00	11.18	6.24	4.94	739.41	11.15	7.01	4.14	740.21	11.15	7.01	4.14	740.21	741.03	737.45	3.58
MW25-19	741.95	12.10	7.12	3.28	3.84	738.11	12.00	8.83	3.17	738.78	13.00	10.02	2.98	738.97	739.05	733.49	5.56

Notes:

1. Groundwater levels were recorded in March 2017, March 2018, and March 2019.
2. Bedrock wells and well MW25-11 were decommissioned in September 2010 as part of the SEDA-wide Well Decommissioning Project.
3. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels after 8/27/2008 were adjusted to reflect the change in well total depth.
4. If well depths were not recorded during an event then the previously recorded well depth was used.

Table 4
SEAD-25 Primary COC Concentrations in Groundwater (Event 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

	Area	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	Loc ID	MW25-10	MW25-17	MW25-2	MW25-2	MW25-3	MW25-9
	Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
	Sample ID	25LM20141	25LM20136	25LM20137	25LM20138	25LM20139	25LM20140
	Sample Date	3/19/2019	3/19/2019	3/20/2019	3/20/2019	3/20/2019	3/19/2019
	QC Type	SA	SA	SA	DU	SA	SA
	Study ID	LTM	LTM	LTM	LTM	LTM	LTM
	Sample Round	16	16	16	16	16	16
	Filtered	Total	Total	Total	Total	Total	Total

Parameter	Unit	Max Detected Value	Source Criteria	Criteria Level	Num of Detects Above	Num of Detects	Num of Analyses	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
1,1,1-Trichloroethane	UG/L	ND	GA	5	0	0	6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	UG/L	0.74 J	GA	5	0	1	6	0.5 U	0.5 U	0.74 J	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	UG/L	0.7 J	GA	5	0	2	6	1 U	1 U	0.7 J	0.44 J	1 U	1 U
Chloroform	UG/L	ND	GA	7	0	0	6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	UG/L	0.7 J	GA	5	0	2	6	0.5 U	0.5 U	0.7 J	0.44 J	0.5 U	0.5 U
Trans-1,2-Dichloroethene	UG/L	ND	GA	5	0	0	6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	UG/L	0.37 J	GA	5	0	1	6	0.5 U	0.5 U	0.37 J	0.5 U	0.5 U	0.5 U
Vinyl chloride	UG/L	0.4 J	GA	2	0	1	6	1 U	1 U	0.4 J	1 U	1 U	1 U
TOTAL Chlorinated Organics								**ND**	**ND**	**2.91 J**	**0.88 J**	**ND**	**ND**
Benzene	UG/L	5.3 J	GA	1	1	2	6	0.5 U	0.5 U	**5.3 J**	**2.8 J**	0.5 U	0.5 U
Toluene	UG/L	ND	GA	5	0	0	6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethyl benzene	UG/L	ND	GA	5	0	0	6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	UG/L	ND	GA	5	0	0	6	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
TOTAL BTEX								**ND**	**ND**	**5.3 J**	**2.8 J**	**ND**	**ND**

Notes:
1. Only primary COCs with site-specific cleanup goals are included.
2. Cleanup goal values are NYSDEC Class GA Groundwater Standards (6 CRR-NY 703.5, 15 March 2019).
3. Shading indicates concentration above cleanup goal.

J = the reported value is an estimated concentration
U = the compound was not detected
ND = Non-Detect

SA = Sample
DU = Duplicate

Table 5
Summary of SEAD-25 Geochemical Parameters
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Well ID	Date	Event	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)	pH (Std units)	Conductivity (S/m)	Iron (ug/L)	Sodium (ug/L)	Chloride (mg/L)	Nitrate (mg/L-N)	Nitrite (mg/L-N)	Sulfate (mg/L)	Ethane (ug/L)	Ethene (ug/L)	Methane (ug/L)	Sulfide (mg/L)
MW25-2	4/12/06 [1]	1	6.29	-11	10.5	16.1	7.17	0.551	2,510 J	4,730	6.5	0.05 U	0.05 U	39.6	2 U	2 U	80 J	0.01
	8/9/06 [1]	2	0.3	-82	26.55	2.3	6.93	0.562	667	5,600 J	2.2 J	0.05 U	0.05 U	32.1	10 U	10 U	35.5	0.15
	6/6/07	3	0.07	-92	12.4	11	7.11	0.454	2,600 J	6,000 J	4	0.5 J	0.5	22	0.24	4.2	170	--
	3/4/08	4	1.35	-60	3.2	2.78	7.15	0.64	711	3,460	0.2 U	0.305 J	0.305	31.1	1 U	1 U	3.2 J	0.01 U
	4/29/09 [1]	5	0.11	-115	8.1	0.9	6.84	0.702	15,050	7,100	2.2	0.05 U	0.01 U	79.2	1 U	1 U	66	0.04
	1/12/10 [1]	6	0.41	-151	6.3	1.06	7.25	0.573	2,655	7,800	2.8	0.199 J	0.007 UJ	64.6 J	0.16 U	0.17 U	21	0.16
	8/3/10 [1,4]	7	0.02	-230	21.2	3.4	6.79	1.09	1,660	10,300	2.9	0.013 UJ	--	42.8	0.16 U	0.17 U	125	--
	2/8/11 [1,6]	8	0.24	-148	5.08	0.6	6.98	0.806	13,100	10,200	5.8	0.0152 U	0.00321 U	45 J	0.58 U	0.69 U	45.5	--
	3/1/12	9	0.24	-106	5.3	5.38	6.79	0.681	3,780 J	9,320 J	0.9 J	0.0152 U	0.022 J	52 J	0.58 U	0.69 U	31 J	0.2
	5/8/2013 [1,6]	10	0.11	-350	8.4	3.11	7.20	0.907	8,750 J	13,000 J	1.75 J	0.0185 U	0.01 U	155 J	4 U	3 U	23.5	0.15
	6/18/14	11	0.68	-63	11.6	1.21	6.83	1.05	9,900	9,100	1.9	0.059	0.01 U	10	0.55 U	0.5 U	0.32 J	--
	3/18/15	12	8.84	44	3.3	1.48	7.57	0.411	340	2,500	0.74	1.3	0.01 U	24	0.55 U	0.5 U	4.2	0.00
	3/17/16 [1]	13	0.61	-17	5.1	3.67	7.74	0.669	345	3,550	0.735	0.36	0.01 J	36	0.55 U	0.5 U	4.35	0.03
	3/15/17	14	0.13	-115	5.5	2.47	6.59	0.977	3,940	6,160	1.8 J	0.015 U	0.005 J	140	0.0022 U	0.002 U	17	0.06
	3/12/18	15	1.35	-90	4.8	1.74	8.47	0.592	2,650	5,270	1.3 J	0.086 J	0.016 J	52	0.01 U	0.01 U	25	0.04
	3/18/19	16	0.27	-52.6	7.24	8.69	6.89	0.63	1,755 J	6,985	1.35 J	0.025 U	0.025 U	41.5	0.005 U	0.005 U	58.5 J	0.02
MW25-3	1/31/06 [1]	1	1.19	79	4.3	2.2	7.1	0.49	81 J	12,150	2.2	0.05 U	0.05 U	39.85	2 U	2 U	2 U	0.04
	8/11/06	2	3.6	77.9	21.54	1.2	7.02	0.686	3,820	11,300 J	1.5 J	0.05 U	0.05 U	44.9	2 U	2 U	2 U	0.03
	3/4/08	4	0.87	124	3.5	2	7.15	0.675	107	5,540	2.66	0.098 J	0.01 UJ	100	1 U	1 U	0.34 J	0.01
	4/29/09	5	0.19	-102	7.9	0.35	7.03	0.627	1,570	9,000	3.3	0.05 U	0.01 U	122	1 U	1 U	13	0.42
	1/12/10	6	1.78	-63	4.9	3	6.51	0.741	702	7,370	2.8	0.05 UJ	0.007 UJ	182 J	0.16 U	0.17 U	0.14 U	0.04
	8/4/10 [4,5]	7	0	-124	20.6	2.37	6.84	1.26	--	--	--	--	--	--	0.16 U	0.17 U	12	--
	2/8/11 [6]	8	0.37	-85	4.5	3.31	6.99	0.851	463	7,990	3.2	0.057	0.00321 U	110 J	0.58 U	0.69 U	1.5 J	--
	2/29/12	9	0.1	-141	4.6	1.99	6.94	0.766	494 J	5,970	1.45 J	0.0152 U	0.0225 J	50 J	0.58 U	0.69 U	18 J	0.46
	5/9/13	10	0.25	-79	7.8	1.5	6.99	0.808	2,200	8,900	1 U	0.019 J	0.01 U	100	0.55 U	0.5 U	0.29 U	0.03
	6/18/14 [2,5]	11	--	--	--	--	--	--	--	--	--	--	--	--	0.55 U	0.5 U	11	--
	3/18/15 [1]	12	4.06	189	3.1	1.79	7.29	0.686	50 U	5,900	1.1	0.69	0.01 U	69	0.55 U	0.5 U	1.85	0.00
	3/17/16	13	0.95	-15	4.4	2.49	7.81	0.689	320	4,900	0.8	0.028 J	0.01 U	27	0.55 U	0.5 U	6.3	0.10
	3/14/17	14	0.34	-143	5.2	1.06	7.28	0.616	138	5,080	0.94 J	0.1055 J	0.0032 U	22 J	0.0022 U	0.002 U	4.95 J	0.00
	3/12/18	15	0.37	-7	4.56	0.26	7.51	0.628	27 J	9,500	0.86 J	0.05 U	0.01 J	25	0.01 U	0.01 U	23	0.03
	3/18/19	16	0.89	-24.6	4.98	1.95	6.67	0.461	633	5,410	0.62 J	0.025 U	0.025 J	17	0.005 U	0.005 U	11	0.01
MW25-9	1/31/06	1	5.33	91	4.8	2.49	7.15	0.535	57 J	14,500	1.1	0.05 U	0.05 U	21.8	2 U	2 U	29	0.02
	8/9/06	2	5.22	62.5	23.11	3.38	7.15	0.718	12 U	16,400 J	0.99 J	0.1	0.05 U	25.3	2 U	2 U	2 U	0.45
	3/4/08	4	2.02	99	3.3	1.3	7.33	0.59	100 U	8,380	0.2 U	0.05 UJ	0.01 UJ	24.8	1 U	1 U	2.4 J	0.01 U
	4/29/09 [2,3]	5	--	--	--	--	--	--	9,440	26,000	2.7	0.05 U	0.01 U	39.7	1 U	1 U	3.5	0.12
	1/12/10 [3]	6	--	-72	3.62	2.8	6.73	0.427	916	16,500	0.5 U	0.05 UJ	0.007 UJ	35.3 J	0.16 U	0.17 U	0.14 U	0.01
	2/9/11 [2,3]	8	--	--	--	--	--	--	3,580	29,600	1.6 J	0.0152 U	0.00321 U	32 J	0.58 U	0.69 U	5.4 J	--
	2/29/12	9	1.77	-129	4.1	2.74	7.41	0.555	2,080 J	45,300	0.55 J	0.018 J	0.022 J	26 J	0.58 U	0.69 U	4 J	--
	5/7/13	10	0.16	-90	9.1	2.57	7.50	0.502	3,000	34,000	1 U	0.033 J	0.01 U	28	0.81 U	0.73 U	0.45 U	0.03
	6/18/14 [7]	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/17/15	12	10.97	192	2.2	4.81	7.73	0.423	92 J	14,000	2.3	0.85	0.013 J	25	0.55 U	0.5 U	0.8	0.02
	3/17/16	13	0.83	199	4.9	2.07	8.06	0.47	20 J	15,000	0.44 J	0.081	0.01 U	21	0.55 U	0.5 U	0.69	0.04
	3/14/17 [3]	14	5.17	-84	2.6	--	7.48	0.537	124	11,800	0.97 J	0.015 U	0.0032 U	29	0.0022 U	0.002 U	1.9 U	0
	3/12/18	15	2.07	8	3.9	0.47	8.62	0.389	37 J	4,470	0.73 J	0.05 U	0.008 J	26	0.01 U	0.01 U	33	0.03
	3/18/19	16	0.66	-66.1	5.42	2.1	7.29	0.451	623	10,200	0.8 J	0.025 U	0.025 U	14	0.005 U	0.005 U	30	0.01

Table 5
Summary of SEAD-25 Geochemical Parameters
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Well ID	Date	Event	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)	pH (Std units)	Conductivity (S/m)	Iron (ug/L)	Sodium (ug/L)	Chloride (mg/L)	Nitrate (mg/L-N)	Nitrite (mg/L-N)	Sulfate (mg/L)	Ethane (ug/L)	Ethene (ug/L)	Methane (ug/L)	Sulfide (mg/L)
MW25-10	1/31/06	1	4.22	107	5	1.09	6.97	0.464	63 J	8,870	0.73	0.05 U	0.05 U	18.1	2 U	2 U	2 U	0.1
	8/9/06	2	4.23	138.8	21.56	195	6.56	0.701	358	6,530 J	0.71 J	0.05 U	0.05 U	18.4	2 U	2 U	2 U	0.28
	3/4/08	4	3.65	130	3.6	2.36	7.31	0.473	100 U	6,090	0.2 U	0.102 J	0.01 UJ	12.9	1 U	1 U	2 U	0.02
	1/13/10 [3]	6	–	230	5.6	3.3	7.19	0.396	508	6,420	2.1	0.05 UJ	0.007 UJ	27.1 J	0.21 U	0.22 U	0.14 U	0.09
	2/9/11 [2,5]	8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2/28/12	9	–	–	–	–	–	–	231 J	5,040	0.45 J	0.02 J	0.015 J	14 J	0.58 U	0.69 U	1.2 J	–
	5/7/2013 [6]	10	–	–	–	–	–	–	200 J	4,800 J	1 U	0.026 J	0.01 U	14 J	0.81 U	0.73 U	0.45 U	0.01
	6/18/14 [7]	11	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3/17/15	12	12.6	165	2.7	3.66	7.64	0.365	200	9,100	2.1	0.066	0.01 U	4.2	0.55 U	0.5 U	0.54 J	0.01
	3/17/16	13	8.36	175	5.7	1.13	7.99	0.389	25 J	5,000	0.73	0.082	0.01 U	8.5	0.55 U	0.5 U	0.29 U	0.01
	3/14/17	14	0.75	202	4.9	3.21	7.21	0.385	59.9 J	4,790	–	–	–	–	0.0022 U	0.002 U	1.9 U	–
	3/12/18	15	5.48	197	4.4	0.25	8.41	0.305	31 J	3,170	0.97 J	0.028 J	0.011 J	7.5	0.01 U	0.01 U	10 U	0.02
	3/18/19	16	5.83	18.2	6.65	3.5	7.22	0.278	218	3,220	2	2.2 J	0.025 U	2.9	0.005 U	0.005 U	3 J	0.02
MW25-17	1/31/06	1	8.46	68	6.3	3.4	7.69	0.462	46	4,240	0.7	0.05 U	0.05 U	17.2	2 U	2 U	2 U	0.01
	8/11/06	2	5.31	157	18.27	1.7	6.72	0.593	9 U	5,170 J	1.4 J	0.11	0.05 U	16.3	2 U	2 U	2 U	0.01 U
	6/7/07 [1]	3	0.31	134	13.2	12	7.2	0.418	440 J	8,500 J	3.6	3.44 J	0.73 J	18.5	0.23	1.3	6.55	0.06
	3/4/08 [1]	4	8.24	155	6	2.03	7.3	0.532	100 U	4,550	0.2 U	0.899 J	0.01 UJ	19.35	1 U	1 U	2 U	0.01
	4/28/09	5	7.45	192	7.2	1.2	7.31	0.379	160	4,700	0.2 U	0.05 U	0.01 U	17.3	1 U	1 U	2 U	0.01 U
	1/14/10	6	6.79	211	8.1	1.4	7.29	0.418	87 J	4,450	2.5	0.245 J	0.007 UJ	16.7 J	0.21 U	0.22 U	0.14 U	0.01 U
	8/5/10 [4]	7	4.1	61	17.6	2.45	7.25	0.584	56 J	5,650	5.3	0.484 J	–	21.7	0.16 U	0.17 U	0.14 U	0.01 U
	2/10/11	8	5.36	193	6.4	0	7.38	0.547	16 J	4,470	2.3	0.27	0.00321 U	16 J	0.58 U	0.69 U	0.98 J	0.01 U
	2/28/12	9	6.91	196	6.5	3.47	7.48	0.423	22 J	4,370	0.47 J	0.12	0.015 J	11 J	0.58 U	0.69 U	0.93 J	–
	5/8/13	10	6.52	73	7.4	2.48	7.76	0.558	50 U	5,500 J	1 U	0.19	0.01 U	18 J	0.81 U	0.73 U	0.45 U	0.01
	6/18/14 [1]	11	4.70	248	10.0	0.86	7.16	0.682	50 U	6,200	0.59	0.17	0.01 U	14	0.55 U	0.5 U	0.32 J	0.00
	3/17/15	12	5.59	224	5.0	1.65	7.51	0.520	50 U	5,200	1.2	0.24	0.01 U	16	0.55 U	0.5 U	0.96	0.01
	3/16/16	13	6.24	170	5.6	0.75	8.37	0.482	17 U	3,500	0.33 J	0.18	0.01 U	7.2	0.55 U	0.5 U	0.29 J	0.01
	3/13/17	14	7.09	218	6.2	1.72	7.3	0.368	30 J	5,830	2.2	0.16	0.00321 U	11	0.0022 U	0.002 U	1.9 U	0.01
	3/12/18	15	4.83	210	5.82	0.83	7.77	0.509	10 J	3,160	0.6 J	0.22	0.018 J	11	0.01 U	0.01 U	2.8 J	0.05
	3/18/19	16	8.78	47	6.53	4.65	7.47	0.349	28 J	3,850	0.43 J	0.091	0.025 U	6.1	0.005 U	0.005 U	2.3 J	0.01

Notes:

- = geo parameter was not measured or sampled

1. Duplicate samples were averaged for available parameters.
2. Insufficient water volume to fill flow cell prior to sample collection.
3. Well was pumped dry and sampled the following day after recharge.
4. Lab analyzed for combined Nitrate/Nitrite Nitrogen.
5. Insufficient water to fill all the sample bottles; VOCs were collected and if additional water remained MEE was collected.
6. Well ran dry during sampling, allowed well to recharge overnight, and remaining samples were collected the next day.
7. Well was not sampled due to insuffcient water volume.

FIGURES

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Seneca Army Depot Activity

0 3.75 7.5 15 Miles

N W E S

Seneca Army Depot Activity

SEAD-25

0 2,000 4,000 8,000 Feet

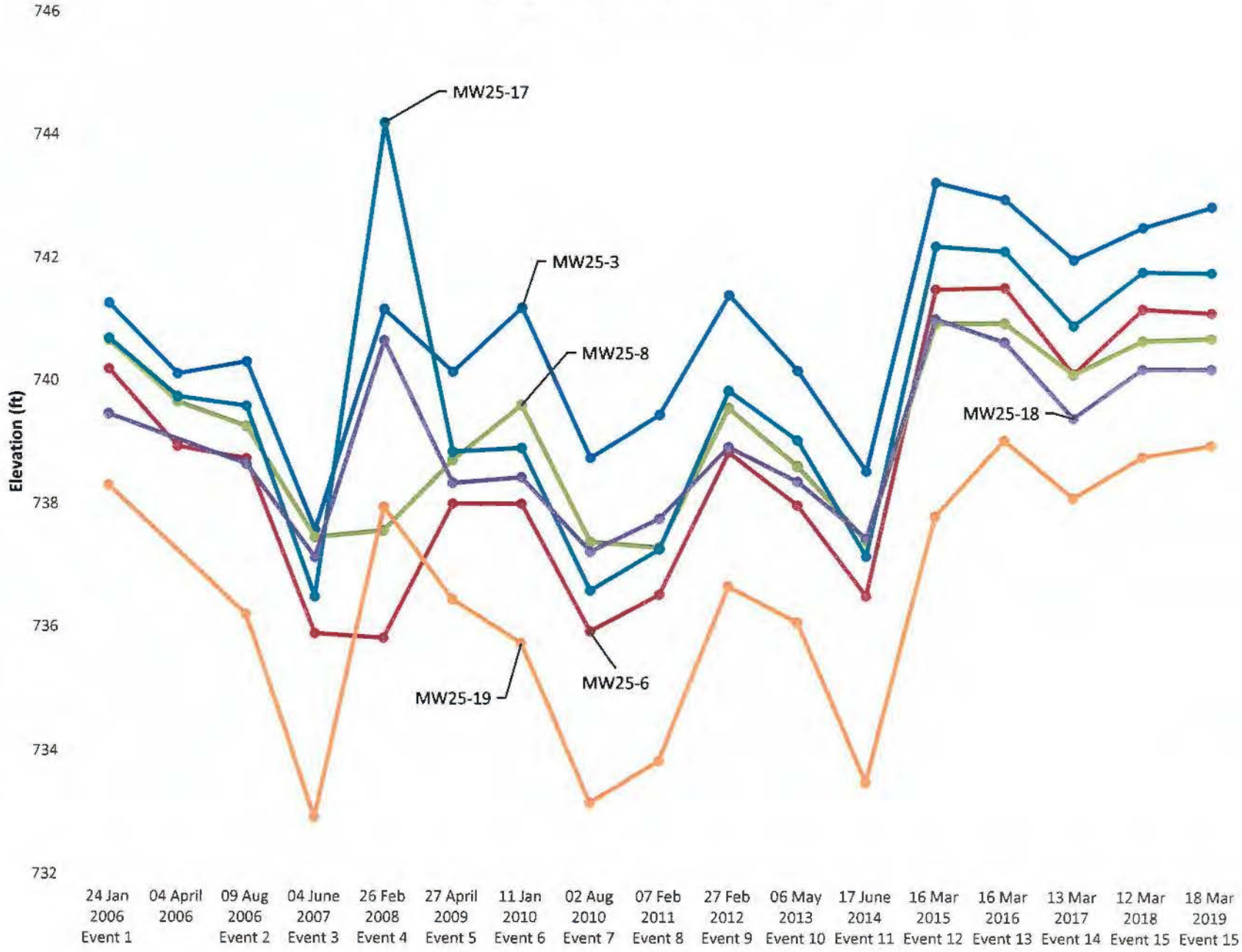
SENECA ARMY DEPOT ACTIVITY
Romulus, New York

FIGURE 1
SEDA and SEAD 25 Site Location

1 in = 4,000 ft | May 2019

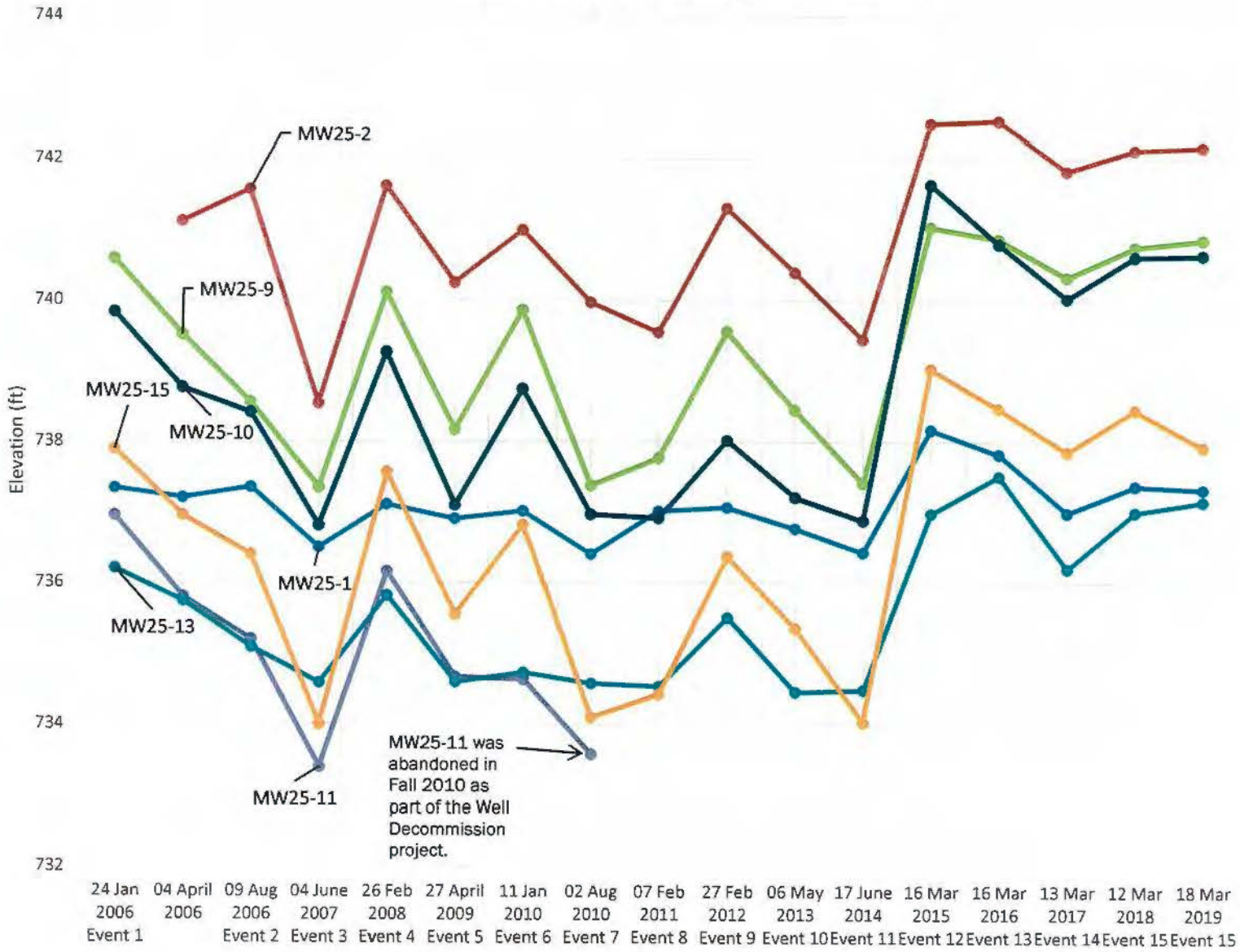
P:\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\SEAD25\LTM Report\Yr10\Figure 1 - SEAD25 SiteLocation.mxd lxh 11/13/2017

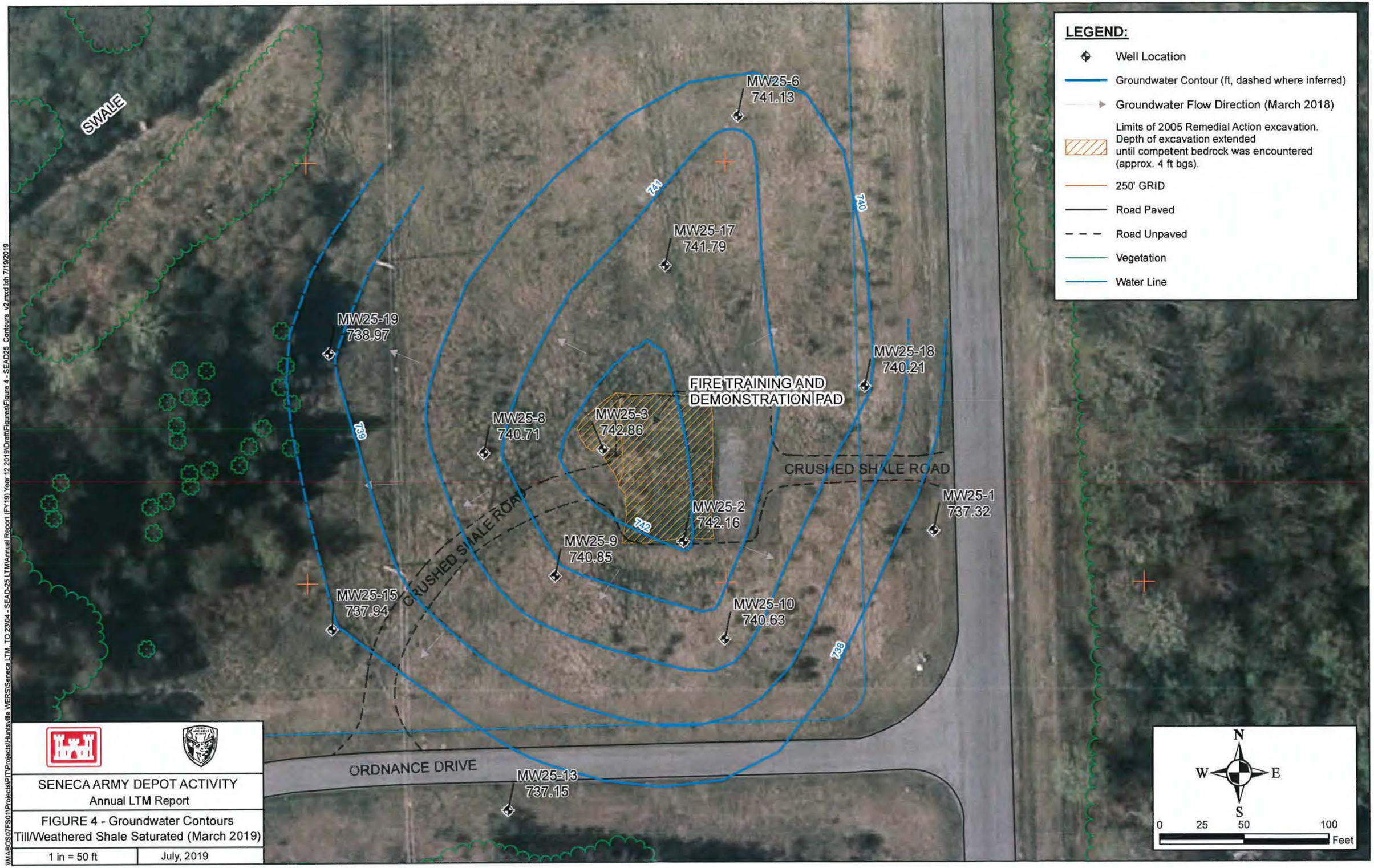
Figure 3A
SEAD-25 Groundwater Elevations - Northern Profile
Annual Long-Term Monitoring Report for SEAD-25



\\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\04 - SEAD-25 LTM\Annual Report (FY19) Year 12 2019\Draft\Figures\Figure 3A-4B - GW Elev Trends_2019.xlsx\3A_Northern Profile

Figure 3B
SEAD-25 Groundwater Elevations - Southern Profile
Annual Long-Term Monitoring Report for SEAD-25





SENECA ARMY DEPOT ACTIVITY
Annual LTM Report

FIGURE 4 - Groundwater Contours
Till/Weathered Shale Saturated (March 2019)

1 in = 50 ft	July, 2019

\\MABOS07FS01\Projects\PT\Projects\Huntsville WERS\Seneca LTM, TO 23\04 - SEAD-25 LTM\Annual Report (FY19) Year 12 2019\Draft\Figures\Figure 4 - SEAD25_Contours_v2.mxd bth 7/19/2019

N
W E
S
0 25 50 100
Feet

MW25-19

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	NA	NA
MAR. 18	NA	NA
MAR. 17	NA	NA
MAR. 16	NA	NA
MAR. 15	NA	NA
JUN. 14	NA	NA
MAY 13	ND	ND
FEB. 12	ND	ND
FEB. 11	ND	ND
AUG. 10	ND	ND
JAN. 10	ND	ND
APR. 09	ND	ND
MAR. 08	ND	ND
JUN. 07	ND	0.2 J
AUG. 06	NS	NS
JAN. 06	NS	NS
APR. 96	ND	ND
NOV. 95	ND	ND

MW25-3

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	ND	ND
MAR. 18	0.51 J	ND
MAR. 17	0.48 J	ND
MAR. 16	ND	ND
MAR. 15	ND	ND
JUN. 14	5.5	ND
MAY 13	0.82 J	ND
FEB. 12	0.68J	ND
FEB. 11	ND	ND
AUG. 10	ND	ND
JAN. 10	ND	ND
APR. 09	1.7	ND
MAR. 08	ND	ND
JUN. 07	NS	NS
AUG. 06	ND	ND
JAN. 06	ND	ND
APR. 96	ND	ND
NOV. 95	15 J	ND
JAN. 93	138 J	5 J

MW25-17

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	ND	ND
MAR. 18	ND	ND
MAR. 17	ND	ND
MAR. 16	ND	ND
MAR. 15	ND	ND
JUN. 14	ND	ND
MAY 13	ND	ND
FEB. 12	ND	ND
FEB. 11	ND	ND
AUG. 10	ND	ND
JAN. 10	ND	ND
APR. 09	ND	ND
MAR. 08	ND	ND
JUN. 07	ND	ND
AUG. 06	ND	ND
JAN. 06	ND	ND
MAR. 96	ND	ND
NOV. 95	ND	ND

MW25-18

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	NA	NA
MAR. 18	NA	NA
MAR. 17	NA	NA
MAR. 16	NA	NA
MAR. 15	NA	NA
JUN. 14	NA	NA
MAY 13	ND	ND
FEB. 12	ND	ND
FEB. 11	ND	ND
AUG. 10	ND	ND
JAN. 10	ND	ND
APR. 09	ND	ND
MAR. 08	ND	ND
JUN. 07	ND	ND
AUG. 06	ND	ND
JAN. 06	ND	ND
MAR. 96	ND	ND
NOV. 95	ND	ND

MW25-8

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	NA	NA
MAR. 18	NA	NA
MAR. 17	NA	NA
MAR. 16	NA	NA
MAR. 15	NA	NA
JUN. 14	NA	NA
MAY 13	ND	ND
FEB. 12	ND	ND
FEB. 11	NS	NS
AUG. 10	NS	NS
JAN. 10	ND	ND
APR. 09	ND	ND
MAR. 08	ND	ND
JUN. 07	NS	NS
AUG. 06	ND	ND
JAN. 06	ND	ND
APR. 96	ND	ND
NOV. 95	ND	ND

MW25-15

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	NA	NA
MAR. 18	NA	NA
MAR. 17	NA	NA
MAR. 16	NA	NA
MAR. 15	NA	NA
JUN. 14	NA	NA
MAY 13	ND	ND
FEB. 12	ND	ND
FEB. 11	ND	ND
AUG. 10	NS	NS
JAN. 10	ND	ND
APR. 09	ND	ND
MAR. 08	ND	ND
JUN. 07	NS	NS
AUG. 06	ND	ND
JAN. 06	ND	ND
APR. 96	0.6	ND
NOV. 95	ND	ND

MW25-9

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	ND	ND
MAR. 18	1	ND
MAR. 17	0.31 J	ND
MAR. 16	ND	ND
MAR. 15	ND	1.6
JUN. 14	NS	NS
MAY 13	0.34 J	ND
FEB. 12	0.4J	ND
FEB. 11	0.74 J	ND
AUG. 10	NS	NS
JAN. 10	ND	ND
APR. 09	0.46 J	ND
MAR. 08	4.62 J	ND
JUN. 07	NS	NS
AUG. 06	0.58 J	ND
JAN. 06	124	5.44
APR. 96	40 J	2 J
NOV. 95	165	10 J

MW25-10

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	ND	ND
MAR. 18	ND	ND
MAR. 17	ND	ND
MAR. 16	ND	ND
MAR. 15	ND	ND
JUN. 14	NS	NS
MAY 13	ND	ND
FEB. 12	ND	ND
FEB. 11	ND	ND
AUG. 10	NS	NS
JAN. 10	ND	ND
APR. 09	NS	NS
MAR. 08	ND	ND
JUN. 07	NS	NS
AUG. 06	ND	0.53 J
JAN. 06	ND	ND
MAR. 96	ND	ND
NOV. 95	ND	ND

MW25-13

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	NA	NA
MAR. 18	NA	NA
MAR. 17	NA	NA
MAR. 16	NA	NA
MAR. 15	NA	NA
JUN. 14	NA	NA
MAY 13	NS	NS
FEB. 12	ND	ND
FEB. 11	NS	NS
AUG. 10	NS	NS
JAN. 10	NS	NS
APR. 09	NS	NS
MAR. 08	ND	ND
JUN. 07	NS	NS
AUG. 06	ND	ND
JAN. 06	ND	ND
MAR. 96	ND	ND
NOV. 95	ND	ND

MW25-2

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 19	4.1	1.90 J
MAR. 18	1.8	0.76 J
MAR. 17	1.4	1.5 J
MAR. 16	1.05	ND
MAR. 15	0.64 J	ND
JUN. 14	42.2	7.48
MAY 13	31.9	6.52
MAR. 12	1.46 J	1.21 J
FEB. 11	37.5 J	16.9 J
AUG. 10	115.6 J	24.8 J
JAN. 10	4 J	2.4 J
APR. 09	30.8	4.9 J
MAR. 08	1.89 J	ND
JUN. 07	28.9 J	2.01 J
AUG. 06	2.77 J	ND
APR. 06	35	ND
APR. 96	6220	89 J
NOV. 95	3040	68 J
FEB. 94	3950	96 J

MW25-19
MW25-8
MW25-3
MW25-17
MW25-18
MW25-15
MW25-9
MW25-2
MW25-10
MW25-13

FIRE TRAINING AND DEMONSTRATION PAD
CRUSHED SHALE ROAD
SHALE ROAD
ADMINISTRATION

LEGEND:

- Well Location
- Limits of 2005 Remedial Action excavation. Depth of excavation extended until competent bedrock was encountered (approx. 4 ft bgs).
- 250' GRID
- Road Paved
- Road Unpaved
- Vegetation
- Water Line

Total BTEX and Chlorinated VOC Concentrations

DATE	BTEX	TOT. CHLOR. ORGS.
MAR. 17	1.4	1.5
MAR. 16	1.05	ND
MAR. 15	0.64 J	ND

Total BTEX includes: Benzene, Toluene, Ethyl Benzene, Total Xylenes (or M/P + O Xylene)

Total Chlorinated Organics includes: 1,1,1-TCA, 1,1-DCA, 1,2-DCE Total (or 1,2-DCA), cis-1,2-DCE, Chloroform, TCE, VC

Pre-Remediations Rounds: Apr 96, Nov 95, Feb 94, & Jan 93. All other rounds are Post-Remediation and part of the LTM program.

Units: ug/L

J: Estimated Value

ND: Non-Detect

NS: Not Sampled

NA: Well no longer sampled as part of the LTM program

Notes:

1) The Total BTEX or Total Chlorinated Organics concentration is the sum of detected values only.

2) At well locations where a duplicate sample was collected, the average result of the sample and the duplicate is presented.

3) Beginning with the June 2014 sampling event, the number of wells sampled as part of the LTM was reduced from 10 wells to 5 wells consisting of MW25-2, MW25-3, MW25-9, MW25-10 and MW25-17.

SENECA ARMY DEPOT ACTIVITY
Annual LTM Report

FIGURE 5 - Total Chlorinated and BTEX VOCs in Groundwater

1 in = 75 ft | May, 2019

P:\PIT\Projects\Huntsville WERS\Seneca LTM_TO 23\04 - SEAD-25 LTM\Annual Report (FY19) Year 12 2019\Draft\Figures\Figure 5 - SEAD25_VOCs.mxd bth 5/14/2019

Figure 6A
Concentrations of BTEX over Time at MW25-2
SEAD-25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

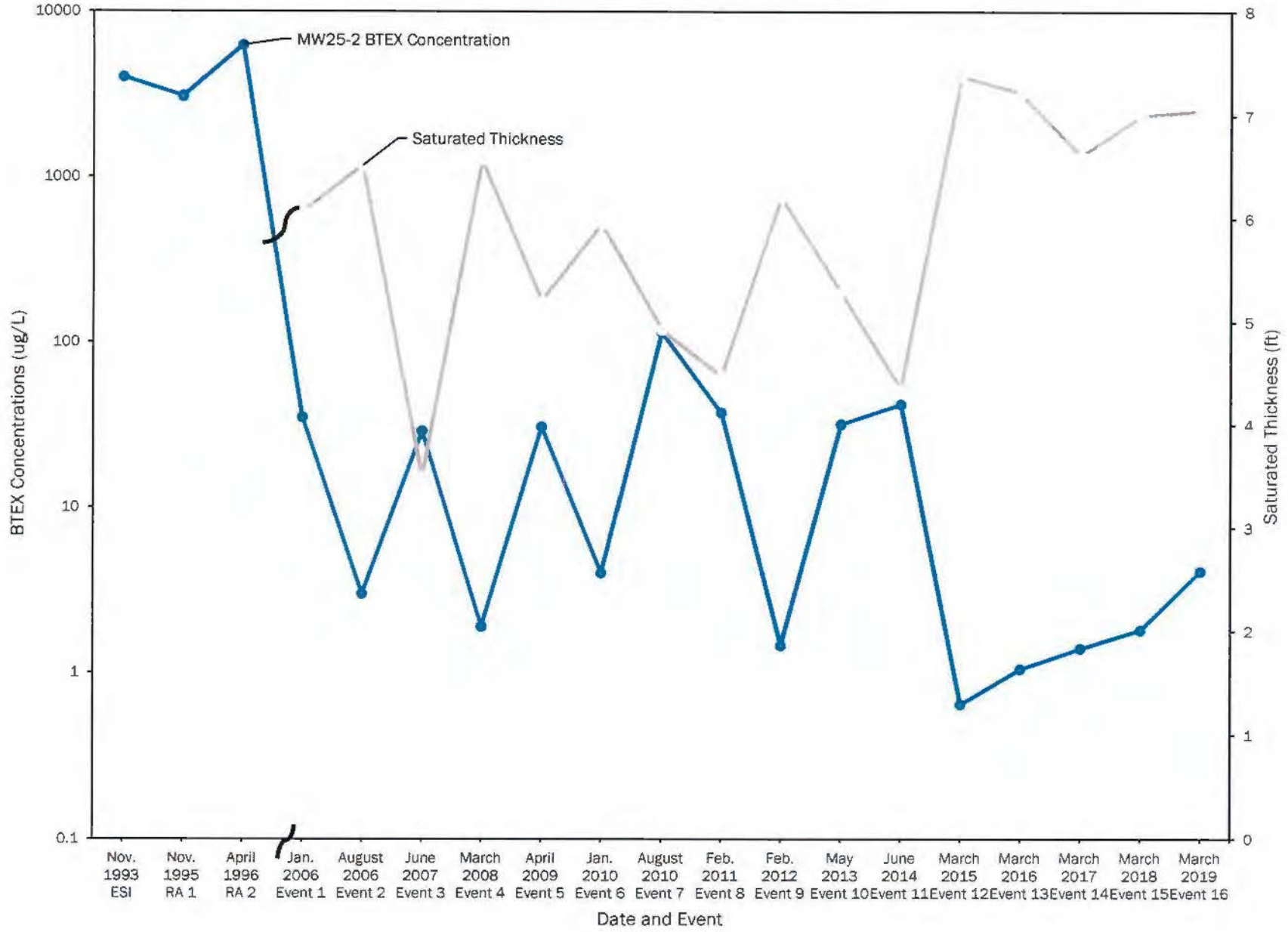


Figure 6B
Concentrations of BTEX over Time at MW25-3
SEAD-25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

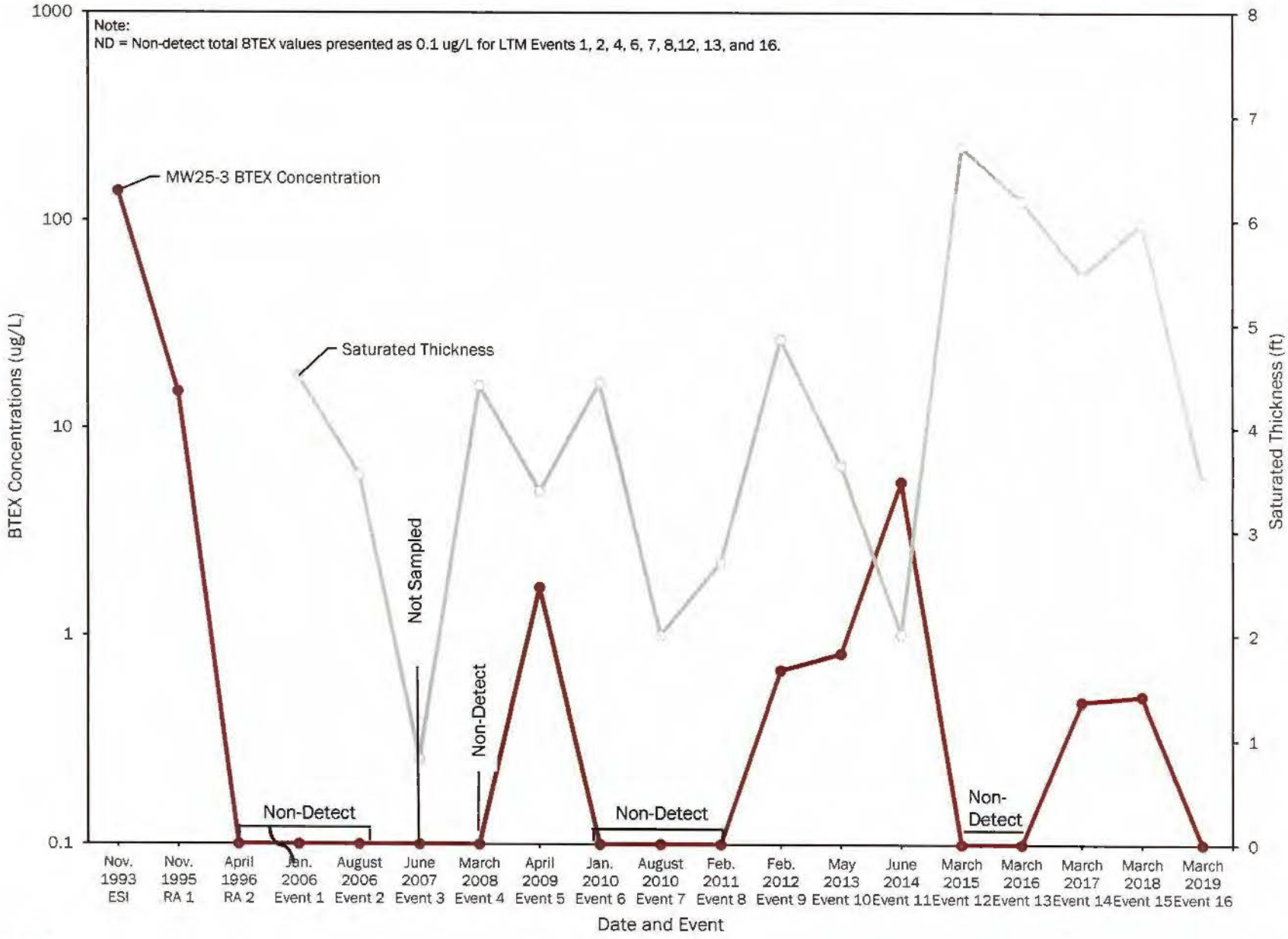


Figure 6C
Concentrations of BTEX over Time at MW25-9
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

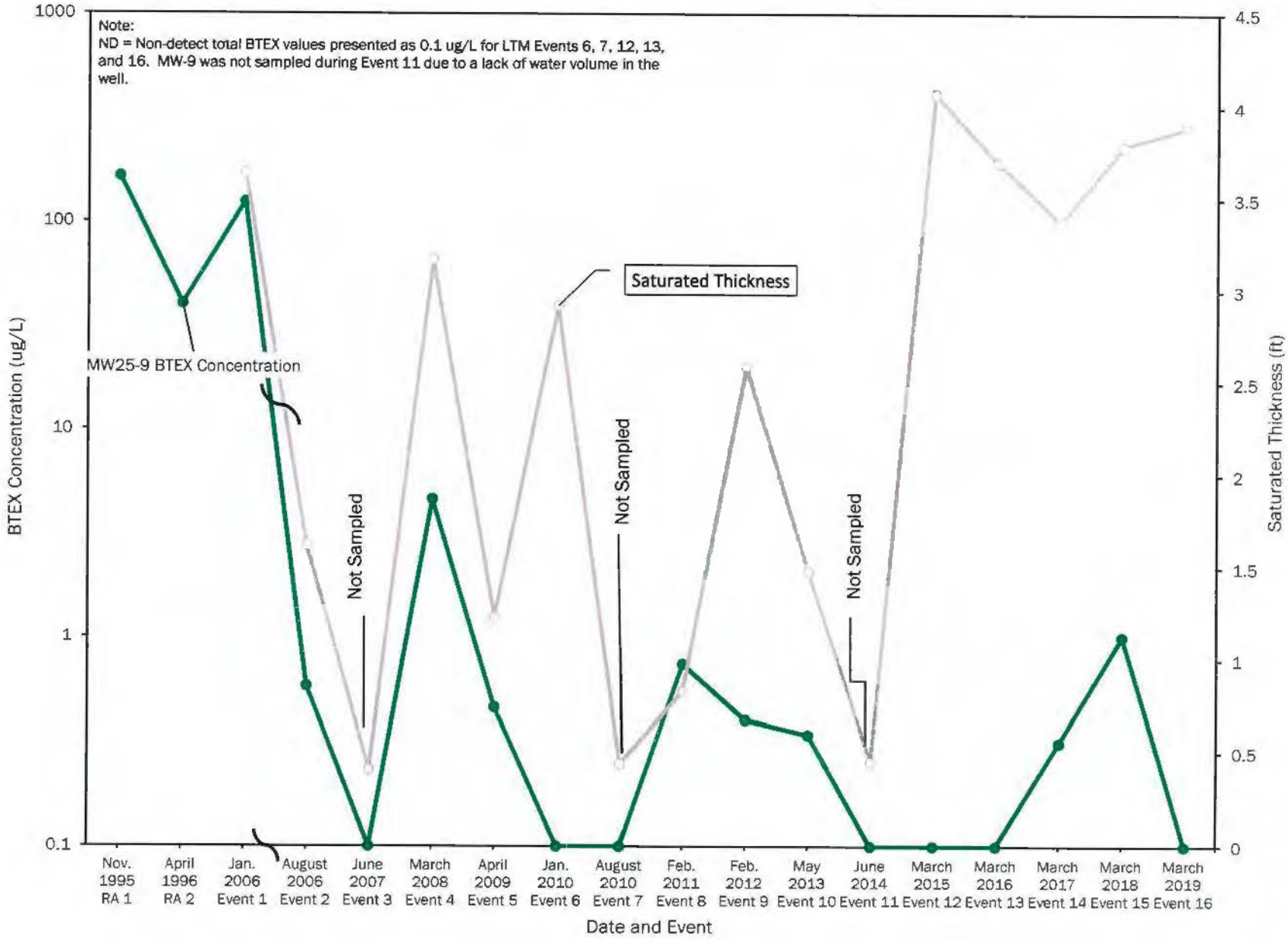


Figure 7A
Chlorinated VOC COC Concentrations at MW25-2
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

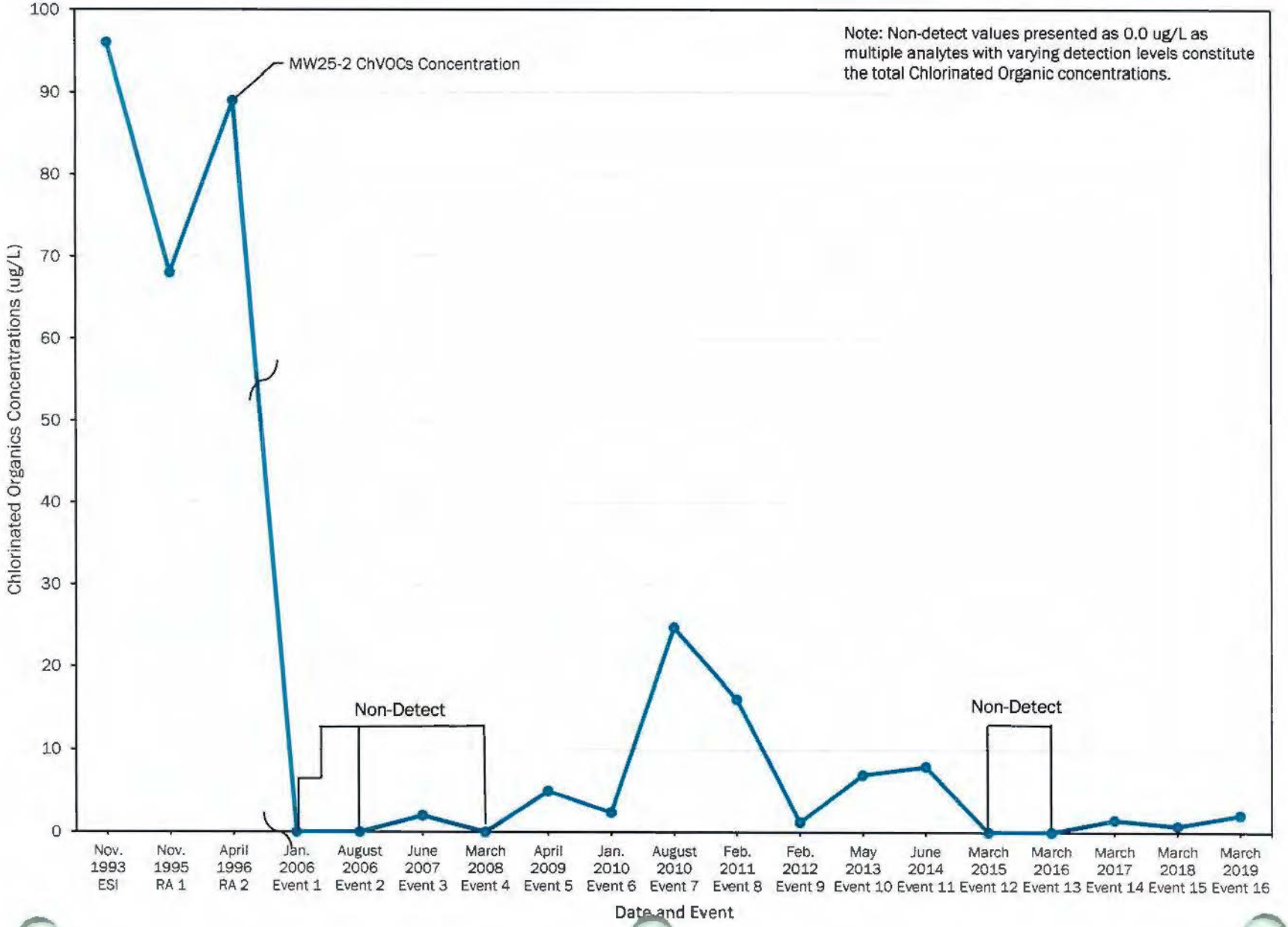


Figure 7B
Chlorinated VOC COC Concentrations at MW25-3
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

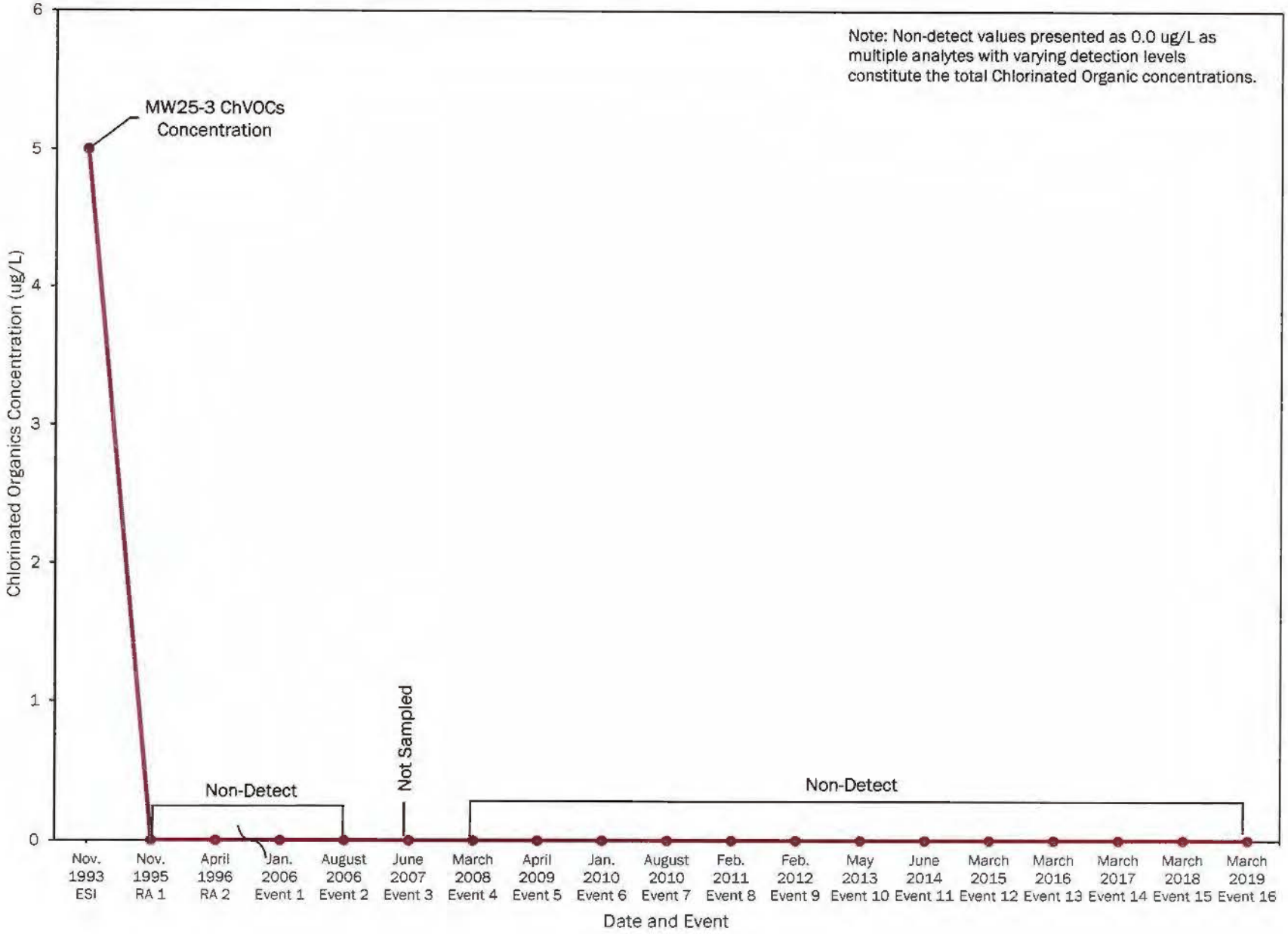


Figure 7C
Chlorinated VOC COC Concentrations at MW25-9
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

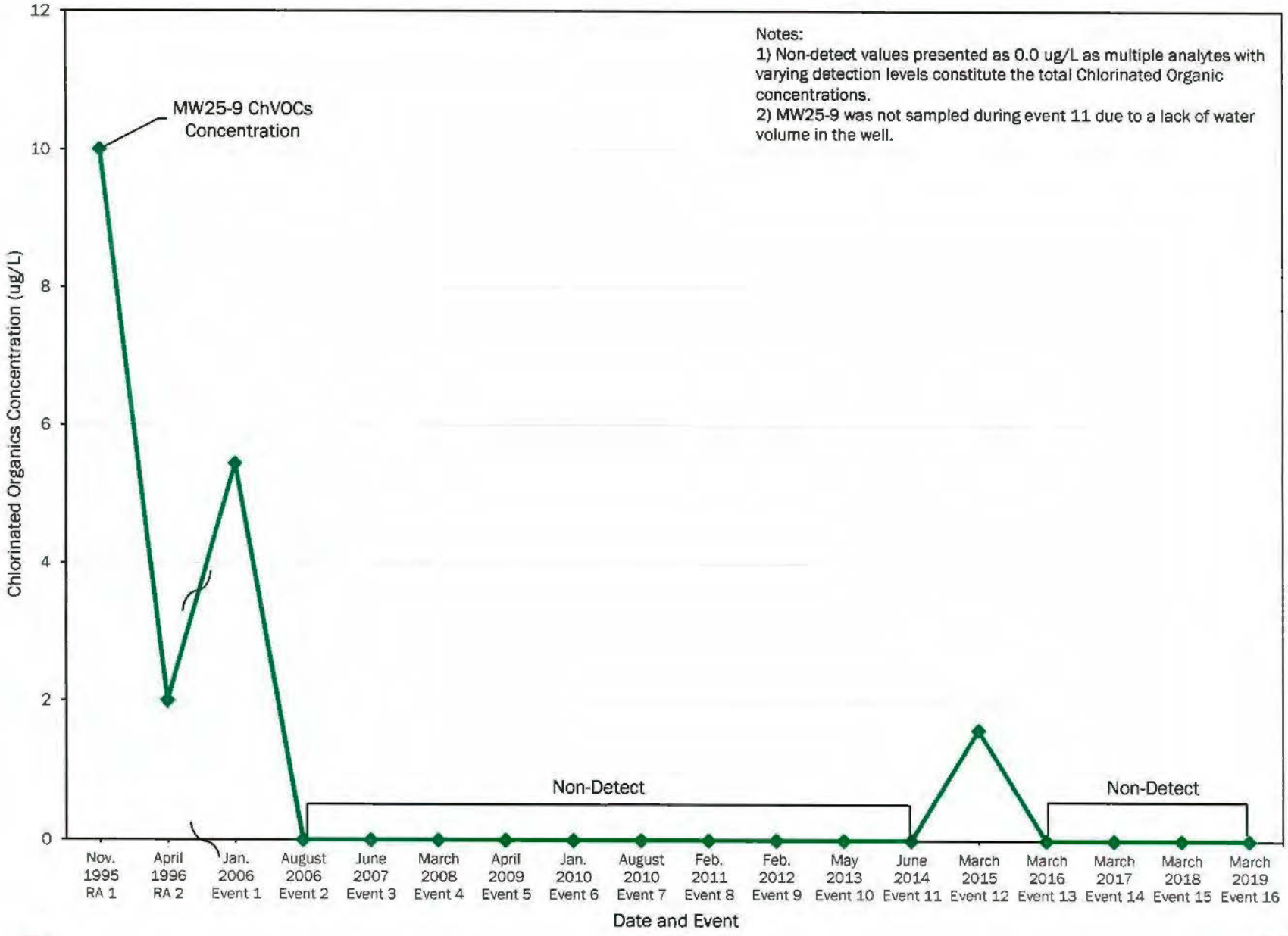


Figure 8A(a)
Concentrations of Select Detected COCs in MW25-2
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

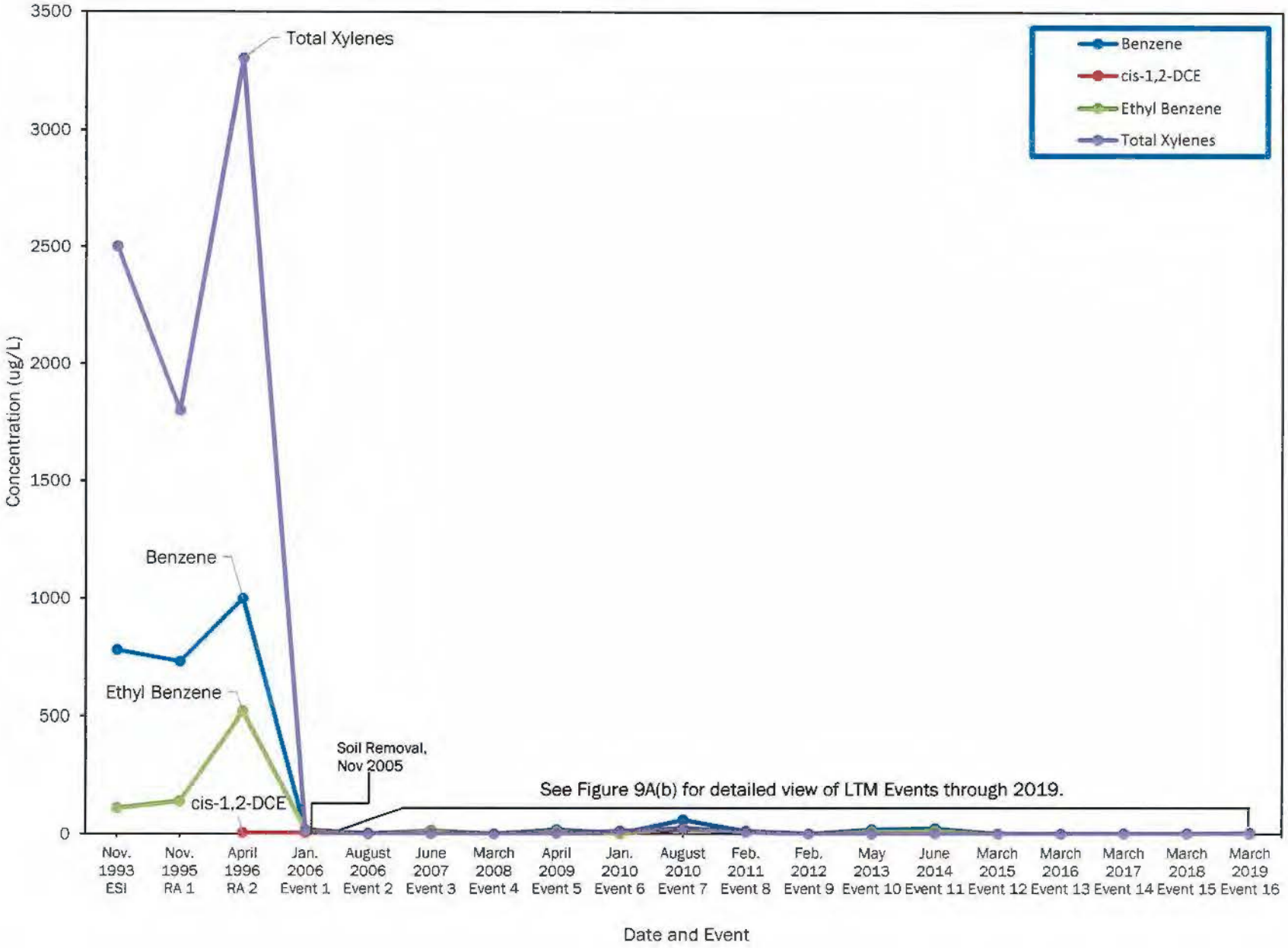


Figure 8A(b)
Concentrations of Select Detected COCs in MW25-2
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

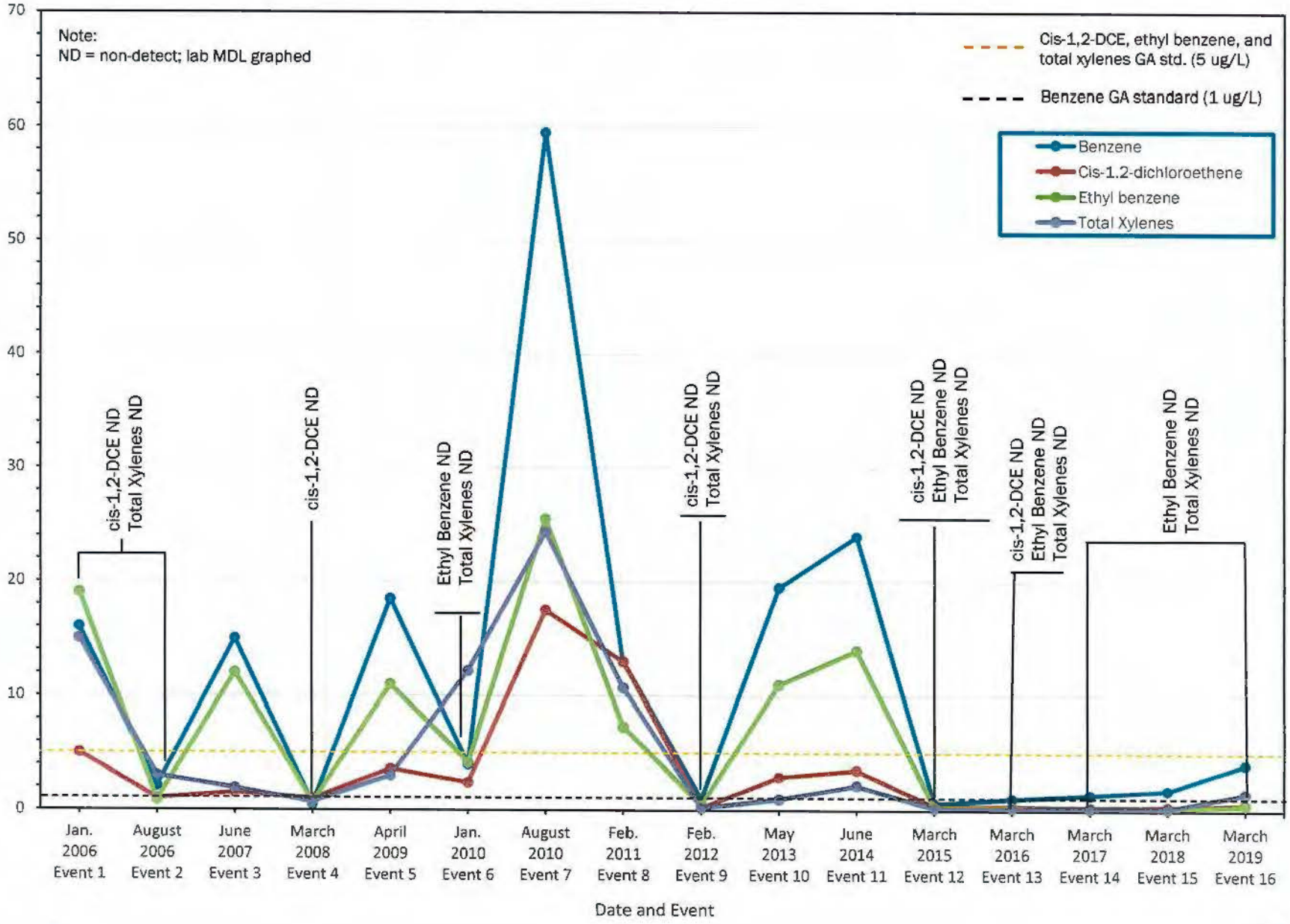


Figure 8B
Concentrations of Select Detected COCs in MW25-3
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

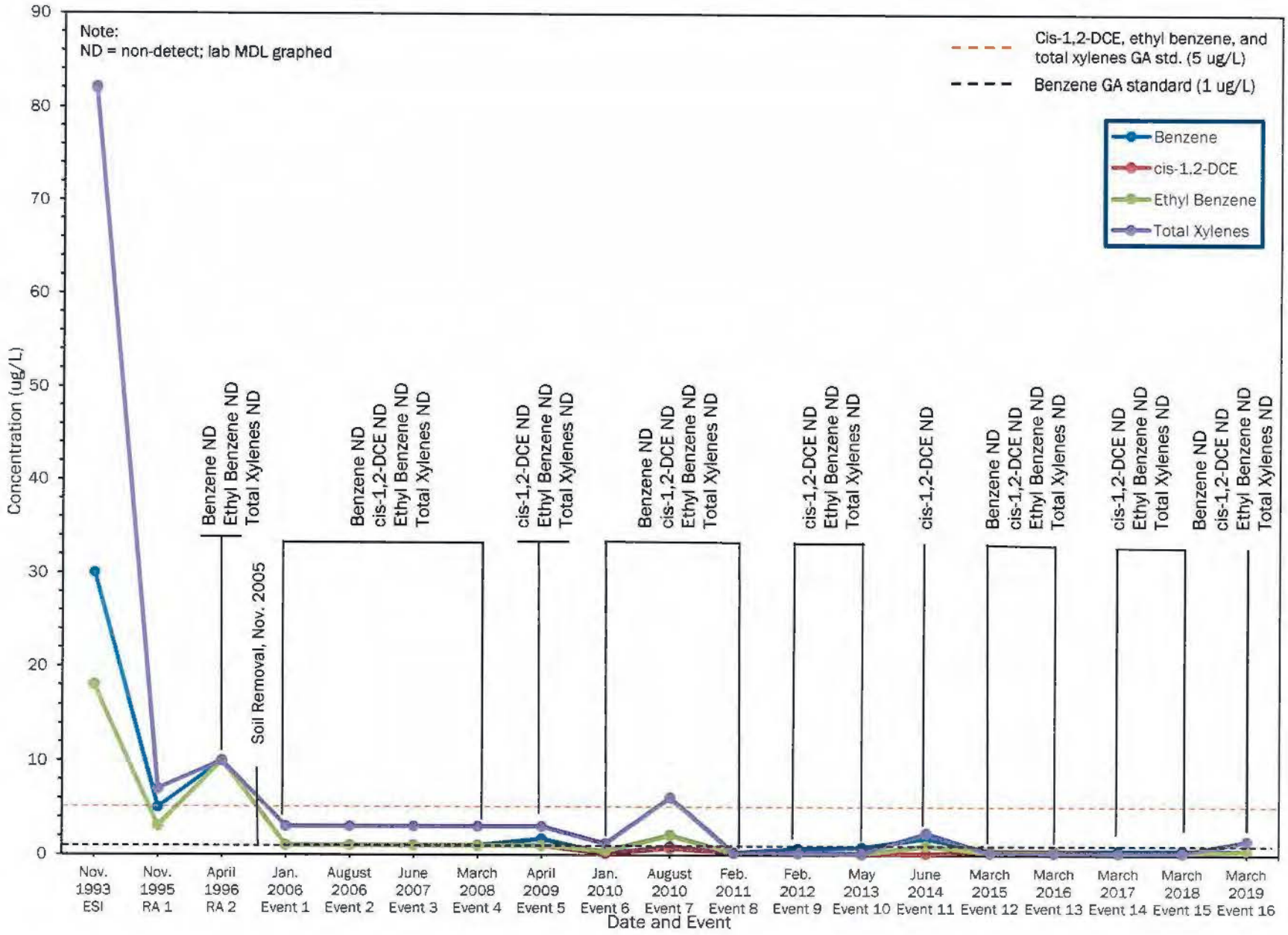
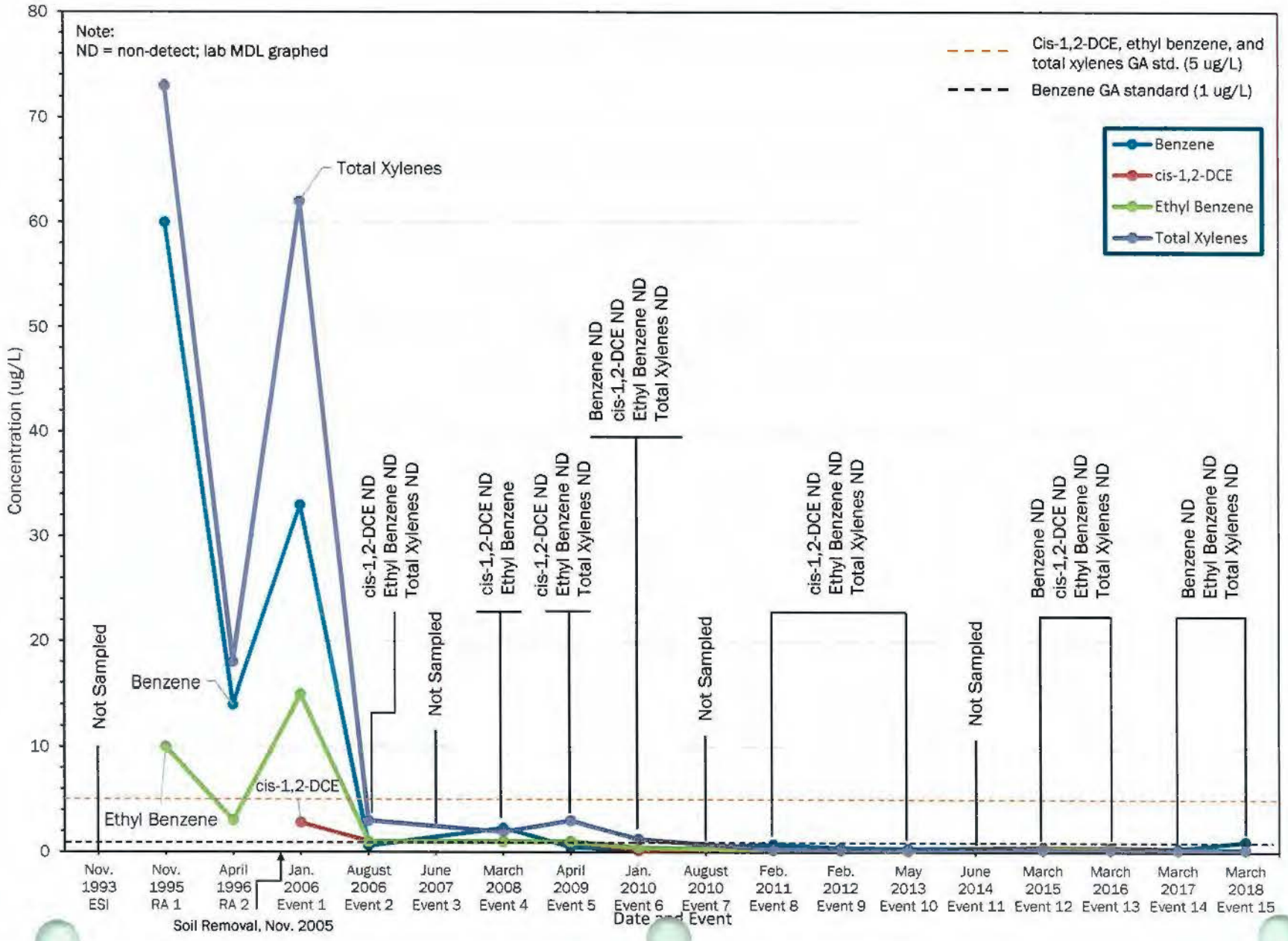


Figure 8C
Concentrations of Select Detected COCs in MW25-9
SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity



\\MABOSO7FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\04 - SEAD-25 LTM\Annual Report (FY19) Year 12 2019\Draft\Figures\Figures 6_7_8 VOC Trends_2019.xlsx

6/7/2019

APPENDICES

Appendix A	Field Forms
Appendix B	Laboratory Reports
Appendix C	Historic Groundwater Elevations (Events 1 through 16)
Appendix D	Complete LTM Groundwater Analytical Data (Events 1 through 16)
Appendix E	Data Validation Sheets

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APPENDIX A

Field Forms

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GROUNDWATER ELEVATION REPORT

SENECA ARMY DEPOT ACTIVITY	PARSONS	DATE:
PROJECT: SEAD 25 Round 16 GW Sampling		PROJECT NO: 5/18/19
LOCATION: Seneca Army Depot, Romulus, NY		INSPECTOR: [illegible]

MONITORING EQUIPMENT:

INSTRUMENT	DETECTOR	BGD	TIME		REMARKS

WATER LEVEL INDICATOR:

INSTRUMENT	CORRECTION FACTOR
Heron Dipper T	

COMMENTS:

Monitoring Well	Historic Well Depth (rel. TOC) (ft)	Depth to Water (rel. TOC) (ft)	Well Depth (rel. TOC) (ft)	Saturated thickness (ft)	Time of Check (military)	Well Condition (Fair / Bad) [circle]	PID Reading (ppm)	Well Status / Comments (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of: riser, concrete, protective casing, etc.)
MW25-1	7.66	5.68	7.80	2.12	1340	F / B	0.0	
MW25-2	11.13	4.70	11.25	7.05	1415	F / B	0.0	2 master lock
MW25-3	9.02	3.48	9.80	6.32	1422	F / B	0.0	
MW25-6	14.36	3.31	14.20	10.89	1405	F / B	0.0	
MW25-8	5.64	1.75	5.42	3.67	1416	F / B	0.0	PVC bevved, gw casing grey
MW25-9	5.57	1.51	5.40	3.89	1415	F / B	0.0	PVC bevved, gw casing grey
MW25-10	6.81	2.38	6.38	4	1345	F / B	0.0	
MW25-13	5.68	2.49	5.48	2.99	1545	F / B	0.0	Missing plug. PVC bevved, water level
MW25-15	7.19	3.06	7.19	4.13	1355	F / B	0.0	Master lock
MW25-17	11.58	2.15	11.26	9.11	1410	F / B	0.0	Bollard, good casing
MW25-18	11.04	4.14	11.15	7.36	1412	F / B	0.0	
MW25-19	12.10	2.98	12.00	9.02	1400	F / B	0.0	Master lock

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-2

PROJECT: SEAD 25
LOCATION: Romulus, NY

DATE: 03/20/17
INSPECTORS: [illegible] EDD
PUMP #: 10706
SAMPLE ID #: 25LM20170320 1115

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
1015	34°	Sunny		3-5	209	Frozen	MiniRae BK	PID
								#25859

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
	11.13	7.13	4			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
	0.0	4.26	4.76	10.13	10:40

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (mmhos)	pH	ORP (mV)	TURBIDITY (NTU)
0	4.48	60	0	1.43	7.29	0.635	6.94	-59.5	16.3
5	4.53	60	.30	0.87	6.97	0.631	6.92	-59.1	18.8
10	4.62	60	.60	0.59	6.97	0.631	6.91	-58.7	15.5
15	4.64	60	.90	0.38	6.96	0.633	6.90	-58.1	13.6
20	4.68	60	1.20	0.29	6.90	0.631	6.89	-56.9	13.1
25	4.74	60	1.50	0.25	7.07	0.630	6.88	-54.9	9.10
30	4.75	60	1.80	0.27	7.17	0.630	6.89	-53.1	8.99
35	4.78	60	2.10	0.28	7.24	0.630	6.89	-52.6	8.69

Sulfide 0.02

+ Field Dup @ MS/MSD

MW25-2

SAMPLING ORDER			PRESERVATIVES		BOTTLES COUNT/ VOLUME	BOTTLES TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
1	VOCs		HCl	ICE	3x40	VOA	25LM20137	1115	
2	MEE		HCl	ICE	3x40	VOA			
3	Metals/Nitrate		0	ICE	1x125	Plastic			
4	Sulfide/Chloride			ICE	1x125	Plastic			
4	Sulfate/Fluoride			ICE	1x125	Plastic	↓	↓	
5	Sulfide								

COMMENTS: (QA/QC?)

25LM20137 MS

25LM20137 MSD

25LM20138 (FD)

IDW INFORMATION:

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-3

PROJECT: SEAD 25
LOCATION: Romulus NY

DATE: 3/10
INSPECTORS: MCS DD
PUMP #: 34229
SAMPLE ID #: 0935 [illegible]

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0-360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
0840	30°	Sunny		8	200	Frozen	MiniRAE 3K	PID #27883

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(TOW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
	9.02	7.02	2			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
	0.0	3.81	4.47	8.02	0845

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (mmhos)	pH	ORP (mV)	TURBIDITY (NTU)
0	4.16	60	0	3.49	4.37	0.459	6.61	66.5	4.63
5	4.19	60	.35	1.81	4.26	0.458	6.47	47.9	7.68
10	4.24	60	.60	1.37	4.02	0.456	6.35	34.6	7.95
15	4.28	60	.90	1.05	4.03	0.456	6.35	28.9	8.51
20	4.23	60	1.20	1.07	4.00	0.457	6.41	22.7	4.28
25	4.28	60	1.50	1.05	3.84	0457	6.44	19.9	3.10
30	4.26	60	1.80	0.80	3.96	0.459	6.47	15.2	2.84
35	4.28	60	2.10	0.72	4.49	0.460	6.50	9.4	2.28
40	4.22	60	2.40	0.88	4.37	0.461	6.52	4.3	1.79
45	4.23	60	2.70	0.96	4.40	0.461	6.54	-1.3	2.16
50	4.30	50	3.00	0.80	4.59	0.459	6.57	-9.3	1.05
55	4.30	60	3.30	0.87	4.88	0.461	6.61	-15.7	4.00
60	4.42	60	3.60	0.98	4.94	0.461	6.64	-20.6	2.01
65	4.44	60	3.90	0.85	4.98	0.461	6.67	-24.6	1.95

Sulfide: 0.01

MW25-3

SAMPLING ORDER			PRESERVATIVES		BOTTLES COUNT/ VOLUME	BOTTLES TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
1	VOCs		HCl	ICE	3x40mL	VOA	25LM120139	0935	
2	MEE		HCl	ICE	2x40mL	VOA	25LM120139	0935	
3	Nitrate/Nitrite		0	ICE	1x125	Plastic	25LM120139	0935	
4	Sulfate/Chloride			ICE	1x125	Plastic	25LM120139	0935	
4	Sodium Iron		HNO_3		1x250	Plastic	25LM120139	0935	
5	Sulfate		~~HCl~~		Field				

COMMENTS: (QA/QC?) Collected RB 25LM120114 @ 10:50

IDW INFORMATION: Purgewater stored in bucket, stored in warehouse

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-9

PROJECT:
LOCATION:

DATE: 3/19/16
INSPECTORS: [illegible] DO
PUMP #: 31986
SAMPLE ID #: 25MW2016-0 1445

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
1350	49°	Cloudy	Calm	5-8	270	Muddy	MiniRae 3k	PID #21889

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
	5.57	4.77	0.8			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
	0.0	1.50	2.69	4.5	1400

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (mmhos)	pH	ORP (mV)	TURBIDITY (NTU)
0	1.84	70	0	3.22	6.19	.483	7.23	-59.7	7.80
5	2.16	60	.30	1.10	6.17	.473	7.27	-64.2	7.92
10	2.30	60	.60	1.05	5.37	.466	7.28	-70.3	8.01
15	2.43	60	.90	0.88	5.83	.464	7.30	-74.4	5.21
20	2.41	60	1.20	0.92	6.08	.465	7.31	-74.1	4.16
25	2.51	60	1.50	0.80	6.27	.469	7.30	-73.3	4.41
30	2.58	60	1.80	0.83	6.27	.465	7.29	-70.4	2.60
35	2.55	60	2.10	0.73	5.80	.459	7.30	-67.4	2.15
40	2.67	60	2.40	0.66	5.42	.451	7.29	-64.1	2.10

Sulfide = 0.01

MW25-9

SAMPLING ORDER			PRESERVATIVES		BOTTLES COUNT/ VOLUME	BOTTLES TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
1	VOCs		HCl	Ice	3x40	Vial	25LM20140	1445	
2	MEE		HCl	Ice	2x40	Vial	25LM30140	1445	
3	Nitrate/Nitrite		0	Ice	1x125	Plastic	25LM01140	1445	
3	Sulfate/Chloride		Ice		1x125	Plastic	25LM04140	1445	
4	Sodium/Iron		HNO_3		1x250	Plastic	25LM01140	1445	
5	Sulfide								

COMMENTS: (QA/QC?)

IDW INFORMATION:

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-10

PROJECT: SEAD 25
LOCATION: Romulus NY

DATE: 7/18/16
INSPECTORS: JDS/DD
PUMP #: 36501
SAMPLE ID #: FSUM2016 1145

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
10:20	32°	Cloudy	61%	5	270	Snow-Covered	MiniRAE 2k	PID
								H25889

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(TOW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]

	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
HISTORIC DATA	6.38	4.38	2			10

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
	0.0	2.68	3.08	6.38	1025

60

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL ~~(GALLONS)~~ L	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (mS/cm)	pH	ORP (mV)	TURBIDITY (NTU)
0	2.88	60 ml/min	0.15	—	5.69	.274	6.45	193.5	—
5	2.94	30	~~0.15~~ 0.15	6.17	5.17	.267	6.56	208.7	8.27
10	2.98	30	0.30	6.10	4.90	.262	6.29	219.0	8.22
15	3.00	30	0.45	5.90	4.74	.259	6.37	185.5	8.29
20	3.01	30	.60	5.52	5.13	.259	6.69	142.0	8.29
25	3.02	30	.75	6.28	5.33	.258	6.92	101.4	5.92
30	3.02	30	.90	6.29	5.13	.256	6.85	88.0	5.96
35	3.05	30	1.05	6.31	4.96	.255	6.91	61.3	5.15
40	3.06	30	1.20	6.02	5.19	.256	6.98	47.1	5.21
45	3.10	30	1.35	6.18	5.47	.259	7.07	37.0	4.73
50	3.08	30	1.50	6.25	6.01	.264	7.14	29.1	3.76
55	3.07	30	1.65	6.17	6.20	.269	7.18	23.3	4.33
60	3.03	30	1.80 L	5.80	6.57	.274	7.21	20.0	3.70
65	3.03	30	~~1.95L~~ 1.95L	5.83	6.65	.278	7.22	18.2	3.50

Rinse 0.02 | Rm - 36501

MW25-10

SAMPLING ORDER			PRESERVATIVES		BOTTLES COUNT/ VOLUME	BOTTLES TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
1	VOCs		HCl	Ice	3x40ml	VOA	25LM20H1	1145	
2	MEE		HCl	Ice	3x40ml	VOA	25LM20H1	1145	
3	Nitrate/Nitrite		0	Ice	1x125	Plast.	25LM20H1	1145	
3	Sulfide/Chlor		Ice		1x125	Plast.	25LM20H1	1145	
~~4~~	~~Sulfate~~				↓				
4	Sodium/Iron		HNO3		1x250	Plast	25LM20H1	1145	
6	Sulfide		—						

COMMENTS: (QA/QC?)

IDW INFORMATION:

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-17

PROJECT: 557028
LOCATION: Seneca Army

DATE: 3/19/19
INSPECTORS: [illegible]
PUMP #: 43822
SAMPLE ID #: 25LM72036 132c

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
		Cloudy	Calm	5	270	Muddy	MiniRAE 2K	PID #29689

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]

	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
HISTORIC DATA	11.58	7.08	4.5			

	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
DATA COLLECTED AT WELL SITE	0.0	2.36	3.0	10.58	1240

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (mmhos)	pH	ORP (mV)	TURBIDITY (NTU)
0	2.76	60	0	10.55	6.57	.349	7.69	123	10
5	2.76	50	.25	9.39	6.19	.347	7.55	84.7	7.69
10	2.83	50	.50	9.40	6.11	.346	7.52	62.6	6.24
15	2.81	50	.75	9.08	6.22	.347	7.51	54.9	6.83
20	2.85	50	1.00	9.51	6.55	.350	7.50	51.3	5.27
25	2.91	50	1.25	8.67	6.73	.351	7.49	48.7	8.27
30	2.96	50	1.50	8.80	6.40	.349	7.47	47.5	4.70
35	3.0	50	1.75	8.78	6.53	.349	7.47	47.0	4.65

Duplicate = 0.01 [signature] Pump - 43822

MW25-17

SAMPLING ORDER			PRESERVATIVES		BOTTLES COUNT/ VOLUME	BOTTLES TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
1	VOCs		HCl	ICE	3×40mL	Voa	25LM20136	13:20	PAS 3/14
2	MEE		HCl	ICE	2×40mL	Voa	25LM20136	13:20	PAS 3/14
3	Nitrate/Nitrite		/	ICE	125 mL	Plastic	25LM20136	13:20	PAS 3/14
3	Sulfate/Chloride			ICE	250 mL	Plastic	25LM20136	13:20	PAS 3/14
4	Sodium/Iron		HNO_3				25LM20136	13:20	PAS 3/14
5	Sulfide		—						

COMMENTS: (QA/QC?)

IDW INFORMATION:

FIELD CALIBRATION LOG SHEET

Site/Project:	JSAD 25	
Personnel:	MS & DD	
Date: 3/19/19	Usage Start Time: 09:35	Usage End Time: 17:00
		Usage – Time instrument used in field

INSTRUMENT ID NUMBERS	METER ID NUMBERS	SENSOR ID NUMBERS
Make: YSI	Make: YSI	D.O.: ~~R2004~~ 19F[illegible]YSI
Model: 556	Model: 5520A	pH/ORP: 556MPS 23907
Serial Number: 23907	Serial Number: R3JD4	Conductivity/Temp.:
ID Number: 10510556	ID Number: 19F[illegible]	Turbidity: HACH 2100Q 00437[illegible]
NJ Certification Number:		*Temperature Correction (°C):* -0.05

Dissolved Oxygen Calibration	Turbidity Calibration and Verification	ORP Calibration 240
Water Temp (°C) 13.50	**Standard: 0.0 NTU** 20.0	**Standard: ~~240 mV~~** 240
Bar Pres (mmHg)	Initial (NTU): 0 20.6	Temperature (°C): 13.16
Initial O_2 Saturation (%)	Reset to (NTU): 0	Initial: 246.0
Initial Reading (mg/L)	Lot No. (0.0 NTU): A8150A	Reset to: 240.1
Final O_2 Saturation (%) 93.6	Exp. Date: 09/19	Lot No. (240 mV): 3407
Meter Reset to (mg/L) 9.86	**Standard: 100/126 NTU** (94.4)	Exp. Date: 9-2019
0.00 (mg/L) Check (<0.030)	Initial (NTU): 94.4	Fld: Mini Rae 2k
Lot No./Exp. Date:	Reset to (NTU): 100	#29887
Winkler D.O. Verification Yes (No)	Lot No. (100/126 NTU): 800 6361	I= 89.8ppm; F= 100.1ppm
(Out Val and Lft As between 0.2 mg/L)	Exp. Date:	After Cal of 100ppm bubt.

Specific Conductance Calibration

	Concentration	Initial Reading	Reset to	Temperature	Lot No. and Exp. Date
Standard #1	1.413 mS/cm^C	1.412 mS/cm^C	1.413 mS/cm^C	13.09 °C	86E946; 5/19

5 Point Calibration Check (Instrument Readings within +/- 10%) (Yes) No

pH Calibration (* Record to two decimal places)

7.00 Buffer Check -- Immediately After Initial Calibration -- MUST BE within ± 0.1 units of 7.00

Buffer	Time	Temperature (°C)	Initial Reading *	pH mV	Reset To *	Lot No. and Exp. Date
4.00	0925	12.87	3.84		4.00	86E305
10.00	3927	13.23	9.10		10.00	86E347
7.00 Check	09:40	13.30	6.95		N/A	76L254

7.00 Buffer Check -- Every 3 Hours After Initial Calibration -- MUST BE within ± 0.2 units of 7.00

Buffer	Time	Temperature (°C)	Initial Reading *	pH mV	Reset To	Lot No. and Exp. Date
7.00 Check	1740	3.33	6.95		N/A	76L254
7.00 Check	1350	4.5	7.01		N/A	76L254
7.00 Check					N/A	

ANALYST NAME/SIGNATURE & DATE COMPLETED: [illegible] DATE: 3/19/19

REVIEWER NAME/SIGNATURE & DATE REVIEWED: _____ DATE: _____

Last Updated: 1/06/14

PARSONS

2100Q1 Hach

PID: 101.0 vs. [illegible]

FIELD CALIBRATION LOG SHEET

Site/Project: SEAD 26		
Personnel: PARSEDD		
Date: 3/20/19	**Usage Start Time:** 0745	**Usage End Time:** 1430
		Usage – Time instrument used in field

INSTRUMENT ID NUMBERS	METER ID NUMBERS	SENSOR ID NUMBERS
Make: YSI	Make: YSI	D.O.: 19J0745
Model: 556	Model: 650 MDS	pH/ORP: 556MPS - 23906
Serial Number: 23906	Serial Number: R7304	Conductivity/Temp.: 556MPS 23907
ID Number: 10510175 0	ID Number: 19172	Turbidity: Q045762
NJ Certification Number:		*Temperature Correction (°C):* -0.05

Dissolved Oxygen Calibration	Turbidity Calibration and Verification	ORP Calibration
Water Temp (°C) 14.50	**Standard: 0.0 NTU**	**Standard: 240 mV**
Bar Pres (mmHg)	Initial (NTU): ~~0.0~~ 0.28	Temperature (°C): 13.47
Initial O_2 Saturation (%) 97.0	Reset to (NTU): 0.0	Initial: 239.5
Initial Reading (mg/L)	Lot No. (0.0 NTU): A8149	Reset to: 240.0
Final O_2 Saturation (%) 100.0	Exp. Date: 9/19	Lot No. (240 mV): 3407
Meter Reset to (mg/L) 9.98	**Standard: 100/126 NTU**	Exp. Date: 9/2023
0.00 (mg/L) Check (<0.030)	Initial (NTU): 101 NTU	PID - MiniRae 2k
Lot No./Exp. Date:	Reset to (NTU): 100 NTU	#29784
Winkler D.O. Verification Yes (No)	Lot No. (100/126 NTU): A8149	Initial 109.0 ppm
(Out Val and Lft As between 0.2 mg/L)	Exp. Date: 9/19	Final 101.2 ppm (oxygen bottle)

Specific Conductance Calibration

	Concentration	Initial Reading	Reset to	Temperature	Lot No. and Exp. Date
Standard #1	1.413 mS/cm^c	~~1.399~~ mS/cm^c	~~1.407~~ 1.413 mS/cm^c	13.55 °C	8GE946, 5/2019

5 Point Calibration Check (Instrument Readings within +/- 10%) Yes No

pH Calibration (* Record to two decimal places)

7.00 Buffer Check -- Immediately After Initial Calibration -- MUST BE within ± 0.1 units of 7.00

Buffer	Time	Temperature (°C)	Initial Reading *	pH mV	Reset To *	Lot No. and Exp. Date
4.00	0755	13.40	4.20	-	3.99	8GE305, 5/2020
10.00	08:00	13.44	9.93	-	10.02	8GE347, 5/2023
7.00 Check	08:05	14.20	7.02	-	N/A	8GE754, 5/2020

7.00 Buffer Check -- Every 3 Hours After Initial Calibration -- MUST BE within ± 0.2 units of 7.00

Buffer	Time	Temperature (°C)	Initial Reading *	pH mV	Reset To	Lot No. and Exp. Date
7.00 Check					N/A	
7.00 Check					N/A	
7.00 Check					N/A	

ANALYST NAME/SIGNATURE & DATE COMPLETED: _____ / _____ DATE: _____

REVIEWER NAME/SIGNATURE & DATE REVIEWED: _____ / _____ DATE: _____

Last Updated: 1/06/14

PARSONS

PID = 100.0 ppm w/ ISOBUT 50PPM

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page 1 of 1

Client: Parsons Corp	Contact: Todd Belanger	Phone #: (617) 449-1428	Fax #: ( )
Address: 100 High St, 4th Floor	City: Boston	State: MA	Zip Code: 02110
Purchase Order #	Proj. Name / No.: Seneca Army Depot	Katahdin Quote #	
Bill (if different than above)	Address		
Sampler (Print / Sign): PRSchaefer/Belanger et al / PR Schaefer		Copies To:	

LAB USE ONLY — WORK ORDER #:

KATAHDIN PROJECT NUMBER: _____

REMARKS: _____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO.: _____

TEMP °C _____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	ANALYSIS AND CONTAINER TYPE PRESERVATIVES: VOCs	MEE	6010C Sediment/Trace	300.0 Sulfate/Chloride	353.2 Nitrate/Nitrite	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	25LM2014	3/14/14/1145	GW	7	X	X	X	X	X					
	25LM2036	3/14/14/1320	GW	7	X	X	X	X	X					
	25LM2040	3/14/14/1415	GW	7	X	X	X	X	X					
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Katahdin ANALYTICAL SERVICES

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page 1 of 1

Client: Parsons Corp | Contact: Todd Belanger | Phone #: 617 . 449 - 1428 | Fax #: ( )

Address: 100 High St, 4th Floor | City: Boston | State: MA | Zip Code: 02110

Purchase Order # | Proj. Name No: Seneca Army Depot | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print Sign): M Schumacher

Copies To

LAB USE ONLY | WORK ORDER #

KATAHDIN PROJECT NUMBER

REMARKS

SHIPPING INFO ☒ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO

TEMP °C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs	VOCs 8260 C	MEE RSK-175	Sodium/Iron 6010 C	Sulfide/Chloride 300.0	Nitrate/Nitrite 353.2							
	25LM20139	3/20/19/0935	GW	7	X	X	X	X	X							
	25LM20137	3/20/19/1115	GW	7	X	X	X	X	X							
	25LM20137MS	3/20/19/1115	GW	7	X	X	X	X	X							
	25LM20137MSD	3/20/19/15	GW	7	X	X	X	X	X							
	25LM20138	3/20/19/00:00	GW	7	X	X	X	X	X							
	25LM00114	3/20/19/10:50	RB	7	X	X	X	X	X							
	25LM00034	3/20/19/—	TB	3	X											
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COMMENTS

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	3/20 1430	FEDEX			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

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APPENDIX B

Laboratory Reports

Laboratory Reports are provided on the electronic (CD) version of this report.

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APPENDIX C

Historic Groundwater Elevations (Events 1 through 16)

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Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Round 1 - January 2006				Round 1 - April 2006			
					Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	1/20/06	2.10	5.67	737.33	4/12/06	1.97	5.80	737.20
MW25-2	746.36	11.31	746.36	11.31	1/20/06		frozen?		4/12/06	6.06	5.25	741.11
MW25-3	745.76	9.00	746.34	9.58	1/20/06	4.50	4.50	741.26	4/12/06	3.35	5.65	740.11
MW25-6	744.44	14.27	744.44	14.27	1/20/06	10.02	4.25	740.19	4/12/06	8.77	5.50	738.94
MW25-8	742.46	5.47	742.46	5.47	1/20/06	3.67	1.80	740.66	4/12/06	2.67	2.80	739.66
MW25-9	742.36	5.42	742.36	5.42	1/20/06	3.64	1.78	740.58	4/12/06	2.57	2.85	739.51
MW25-10	743.01	6.20	743.01	6.20	1/20/06	3.02	3.18	739.83	4/12/06	1.95	4.25	738.76
MW25-11	740.25	7.00	740.25	7.00	1/20/06	3.70	3.30	736.95	4/12/06	2.55	4.45	735.80
MW25-13	739.64	5.53	739.64	5.53	1/20/06	2.09	3.44	736.20	4/12/06	1.63	3.90	735.74
MW25-15	741.00	7.20	741.00	7.20	1/20/06	4.09	3.11	737.89	4/12/06	3.15	4.05	736.95
MW25-17	743.94	11.27	743.94	11.27	1/20/06	8.02	3.25	740.69	4/12/06	7.07	4.20	739.74
MW25-18	744.35	11.22	744.35	11.22	1/20/06	6.33	4.89	739.46	4/12/06			
MW25-19	741.95	12.00	741.95	12.00	1/20/06	8.35	3.65	738.30	4/12/06			

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Round 2 - August 2006				Round 3 - June 2007			
					Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	8/9/06	2.12	5.65	737.35	6/4/07	1.27	6.50	736.50
MW25-2	746.36	11.31	746.36	11.31	8/9/06	6.51	4.8	741.56	6/4/07	3.49	7.82	738.54
MW25-3	745.76	9.00	746.34	9.58	8/9/06	3.55	5.45	740.31	6/4/07	0.82	8.18	737.58
MW25-6	744.44	14.27	744.44	14.27	8/9/06	8.57	5.7	738.74	6/4/07	5.72	8.55	735.89
MW25-8	742.46	5.47	742.46	5.47	8/9/06	2.27	3.2	739.26	6/4/07	0.47	5.00	737.46
MW25-9	742.36	5.42	742.36	5.42	8/9/06	1.62	3.8	738.56	6/4/07	0.41	5.01	737.35
MW25-10	743.01	6.20	743.01	6.20	8/9/06	1.60	4.6	738.41	6/4/07		dry	
MW25-11	740.25	7.00	740.25	7.00	8/9/06	1.95	5.05	735.20	6/4/07	0.15	6.85	733.40
MW25-13	739.64	5.53	739.64	5.53	8/9/06	0.98	4.55	735.09	6/4/07	0.48	5.05	734.59
MW25-15	741.00	7.20	741.00	7.20	8/9/06	2.60	4.6	736.40	6/4/07		dry	
MW25-17	743.94	11.27	743.94	11.27	8/9/06	6.92	4.35	739.59	6/4/07	3.82	7.45	736.49
MW25-18	744.35	11.22	744.35	11.22	8/9/06	5.52	5.7	738.65	6/4/07	4.00	7.22	737.13
MW25-19	741.95	12.00	741.95	12.00	8/9/06	6.25	5.75	736.20	6/4/07	2.97	9.03	732.92

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

					Round 4 - February 2008				Year 3, Round 5 - April 2009			
Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	2/26/08	1.88	5.89	737.11	4/27/09	1.68	6.09	736.91
MW25-2	746.36	11.31	746.36	11.31	2/26/08	6.56	4.75	741.61	4/27/09	5.20	6.11	740.25
MW25-3	745.76	9.00	746.34	9.58	2/26/08	4.41	4.59	741.17	4/27/09	3.39	6.19	740.15
MW25-6	744.44	14.27	744.44	14.27	2/26/08	9.73	4.54	739.90	4/27/09	7.84	6.43	738.01
MW25-8	742.46	5.47	742.46	5.47	2/26/08	3.15	2.32	740.14	4/27/09	1.73	3.74	738.72
MW25-9	742.36	5.42	742.36	5.42	2/26/08	3.17	2.25	740.11	4/27/09	1.23	4.19	738.17
MW25-10	743.01	6.20	743.01	6.20	2/26/08	2.46	3.74	739.27	4/27/09	0.29	5.91	737.10
MW25-11	740.25	7.00	740.25	7.00	2/26/08	2.91	4.09	736.16	4/27/09	1.42	5.58	734.67
MW25-13	739.64	5.53	739.64	5.53	2/26/08	1.71	3.82	735.82	4/27/09	0.49	5.04	734.60
MW25-15	741.00	7.20	741.00	7.20	2/26/08	3.77	3.43	737.57	4/27/09	1.75	5.45	735.55
MW25-17	743.94	11.27	743.94	11.27	2/26/08	7.99	3.28	740.66	4/27/09	6.19	5.08	738.86
MW25-18	744.35	11.22	744.35	11.22	2/26/08	11.07	0.15	744.20	4/27/09	5.22	6.00	738.35
MW25-19	741.95	12.00	741.95	12.00	2/26/08	8.00	4.00	737.95	4/27/09	6.50	5.50	736.45

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Round 6 - January 2010				Round 7 - August 2010			
					Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	1/11/10	1.79	5.98	737.02	8/2/10	1.18	6.59	736.41
MW25-2	746.36	11.31	746.36	11.31	1/11/10	5.94	5.37	740.99	8/2/10	4.92	6.39	739.97
MW25-3	745.76	9.00	746.34	9.58	1/11/10	4.44	5.14	741.20	8/2/10	2.00	7.58	738.76
MW25-6	744.44	14.27	744.44	14.27	1/11/10	7.84	6.43	738.01	8/2/10	5.76	8.51	735.93
MW25-8	742.46	5.47	742.46	5.47	1/11/10	2.62	2.85	739.61	8/2/10	0.40	5.07	737.39
MW25-9	742.36	5.42	742.36	5.42	1/11/10	2.92	2.50	739.86	8/2/10	0.44	4.98	737.38
MW25-10	743.01	6.20	743.01	6.20	1/11/10	1.94	4.26	738.75	8/2/10	0.16	6.04	736.97
MW25-11	740.25	7.00	740.25	7.00	1/11/10	1.39	5.61	734.64	8/2/10	0.33	6.67	733.58
MW25-13	739.64	5.53	739.64	5.53	1/11/10	0.62	4.91	734.73	8/2/10	0.47	5.06	734.58
MW25-15	741.00	7.20	741.00	7.20	1/11/10	3.02	4.18	736.82	8/2/10	0.30	6.90	734.10
MW25-17	743.94	11.27	743.94	11.27	1/11/10	6.25	5.02	738.92	8/2/10	3.93	7.34	736.60
MW25-18	744.35	11.22	744.35	11.22	1/11/10	5.31	5.91	738.44	8/2/10	4.10	7.12	737.23
MW25-19	741.95	12.00	741.95	12.00	1/11/10	5.79	6.21	735.74	8/2/10	3.21	8.79	733.16

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Round 8 - February 2011					Round 9 - February 2012				
					Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	2/7/11	7.74	1.76	5.98	737.02	2/27/12	7.73	1.80	5.93	737.07
MW25-2	746.36	11.31	746.36	11.31	2/7/11	11.28	4.47	6.81	739.55	2/27/12	11.26	6.20	5.06	741.30
MW25-3	745.76	9.00	746.34	9.58	2/7/11	9.80	2.92	6.88	739.46	2/27/12	9.79	4.86	4.93	741.41
MW25-6	744.44	14.27	744.44	14.27	2/7/11	14.22	6.31	7.91	736.53	2/27/12	14.23	8.64	5.59	738.85
MW25-8	742.46	5.47	742.46	5.47	2/7/11	5.46	0.30	5.16	737.30	2/27/12	5.41	2.52	2.89	739.57
MW25-9	742.36	5.42	742.36	5.42	2/7/11	5.40	0.81	4.59	737.77	2/27/12	5.39	2.59	2.80	739.56
MW25-10	743.01	6.20	743.01	6.20	2/7/11	6.37	0.28	6.09	736.92	2/27/12	6.36	1.37	4.99	738.02
MW25-11	740.25	7.00	740.25	7.00	(removed during Well Abandonment Fall 2010)									
MW25-13	739.64	5.53	739.64	5.53	2/7/11	5.48	0.38	5.10	734.54	2/27/12	5.46	1.33	4.13	735.51
MW25-15	741.00	7.20	741.00	7.20	2/7/11	7.20	0.63	6.57	734.43	2/27/12	7.19	2.56	4.63	736.37
MW25-17	743.94	11.27	743.94	11.27	2/7/11	11.30	4.63	6.67	737.27	2/27/12	11.23	7.14	4.09	739.85
MW25-18	744.35	11.22	744.35	11.22	2/7/11	11.18	4.60	6.58	737.77	2/27/12	11.15	5.74	5.41	738.94
MW25-19	741.95	12.00	741.95	12.00	2/7/11	12.00	3.89	8.11	733.84	2/27/12	11.98	6.70	5.28	736.67

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Round 10 - May 2013					Event 11 - June 2014				
					Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	5/6/13	7.71	1.48	6.23	736.77	6/17/14	7.73	1.16	6.57	736.43
MW25-2	746.36	11.31	746.36	11.31	5/6/13	11.25	5.28	5.97	740.39	6/17/14	11.26	4.35	6.91	739.45
MW25-3	745.76	9.00	746.34	9.58	5/6/13	9.80	3.64	6.16	740.18	6/17/14	9.80	2.01	7.79	738.55
MW25-6	744.44	14.27	744.44	14.27	5/6/13	14.26	7.81	6.45	737.99	6/17/14	14.30	6.37	7.93	736.51
MW25-8	742.46	5.47	742.46	5.47	5/6/13	5.43	1.60	3.83	738.63	6/17/14	5.42	0.38	5.04	737.42
MW25-9	742.36	5.42	742.36	5.42	5/6/13	5.39	1.48	3.91	738.45	6/17/14	5.40	0.45	4.95	737.41
MW25-10	743.01	6.20	743.01	6.20	5/6/13	6.38	0.58	5.80	737.21	6/17/14	6.39	0.26	6.13	736.88
MW25-11	740.25	7.00	740.25	7.00										
MW25-13	739.64	5.53	739.64	5.53	5/6/13	5.48	0.30	5.18	734.46	6/17/14	5.48	0.33	5.15	734.49
MW25-15	741.00	7.20	741.00	7.20	5/6/13	7.18	1.53	5.65	735.35	6/17/14	7.20	0.23	6.97	734.03
MW25-17	743.94	11.27	743.94	11.27	5/6/13	11.25	6.36	4.89	739.05	6/17/14	11.26	4.48	6.78	737.16
MW25-18	744.35	11.22	744.35	11.22	5/6/13	11.20	5.23	5.97	738.38	6/17/14	11.18	4.28	6.90	737.45
MW25-19	741.95	12.00	741.95	12.00	5/6/13	12.00	6.13	5.87	736.08	6/17/14	12.00	3.54	8.46	733.49

Notes

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Event 12 - March 2015					Event 13 - March 2016				
					Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	3/16/15	7.71	2.88	4.83	738.17	3/16/16	7.55	2.37	5.18	737.82
MW25-2	746.36	11.31	746.36	11.31	3/16/15	11.25	4.35	3.88	742.48	3/16/16	11.05	7.21	3.84	742.52
MW25-3	745.76	9.00	746.34	9.58	3/16/15	9.80	2.01	3.09	743.25	3/16/16	9.55	6.19	3.36	742.98
MW25-6	744.44	14.27	744.44	14.27	3/16/15	14.27	6.37	2.93	741.51	3/16/16	13.70	10.80	2.90	741.54
MW25-8	742.46	5.47	742.46	5.47	3/16/15	5.44	0.38	1.51	740.95	3/16/16	5.20	3.70	1.50	740.96
MW25-9	742.36	5.42	742.36	5.42	3/16/15	5.40	0.45	1.33	741.03	3/16/16	5.20	3.70	1.50	740.86
MW25-10	743.01	6.20	743.01	6.20	3/16/15	6.38	0.26	1.38	741.63	3/16/16	6.15	3.93	2.22	740.79
MW25-11	740.25	7.00	740.25	7.00										
MW25-13	739.64	5.53	739.64	5.53	3/16/15	5.47	0.33	2.66	736.98	3/16/16	5.25	3.12	2.13	737.51
MW25-15	741.00	7.20	741.00	7.20	3/16/15	7.20	0.23	1.97	739.03	3/16/16	6.95	4.42	2.53	738.47
MW25-17	743.94	11.27	743.94	11.27	3/16/15	11.24	4.48	1.72	742.22	3/16/16	10.72	8.92	1.80	742.14
MW25-18	744.35	11.22	744.35	11.22	3/16/15	11.16	4.28	3.32	741.03	3/16/16	11.00	7.30	3.70	740.65
MW25-19	741.95	12.00	741.95	12.00	3/16/15	12.01	3.54	4.14	737.81	3/16/16	11.80	8.90	2.90	739.05

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

					Event 14 - March 2017					Event 15 - March 2018				
Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	3/13/2017	7.75	1.74	6.01	736.99	3/12/2018	7.80	2.17	5.63	737.37
MW25-2	746.36	11.31	746.36	11.31	3/13/2017	11.15	6.61	4.54	741.82	3/12/2018	11.24	7.00	4.24	742.12
MW25-3	745.76	9.00	746.34	9.58	3/13/2017	9.81	5.47	4.34	742.00	3/12/2018	9.78	5.97	3.81	742.53
MW25-6	744.44	14.27	744.44	14.27	3/13/2017	14.21	9.90	4.31	740.13	3/12/2018	14.15	10.90	3.25	741.19
MW25-8	742.46	5.47	742.46	5.47	3/13/2017	5.45	3.11	2.34	740.12	3/12/2018	5.41	3.62	1.79	740.67
MW25-9	742.36	5.42	742.36	5.42	3/13/2017	5.41	3.37	2.04	740.32	3/12/2018	5.40	3.79	1.61	740.75
MW25-10	743.01	6.20	743.01	6.20	3/13/2017	6.40	3.41	2.99	740.02	3/12/2018	6.37	3.97	2.40	740.61
MW25-11	740.25	7.00	740.25	7.00										
MW25-13	739.64	5.53	739.64	5.53	3/13/2017	5.50	2.06	3.44	736.20	3/12/2018	5.46	2.82	2.64	737.00
MW25-15	741.00	7.20	741.00	7.20	3/13/2017	7.22	4.07	3.15	737.85	3/12/2018	7.20	4.65	2.55	738.45
MW25-17	743.94	11.27	743.94	11.27	3/13/2017	11.30	8.28	3.02	740.92	3/12/2018	11.24	9.10	2.14	741.80
MW25-18	744.35	11.22	744.35	11.22	3/13/2017	11.18	6.24	4.94	739.41	3/12/2018	11.15	7.01	4.14	740.21
MW25-19	741.95	12.00	741.95	12.00	3/13/2017	7.12	3.28	3.84	738.11	3/12/2018	12.00	8.83	3.17	738.78

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 16)
2019 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft)	Well Depth (Post-2008) (ft)	Event 16 - March 2019					Historical Data[1]		
					Date Measured	Measured Well Depth (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Groundwater Elevation (ft)		
										Maximum	Minimum	Range
MW25-1	743.00	7.77	743.00	7.77	3/18/2019	7.80	2.12	5.68	737.32	738.17	736.41	1.76
MW25-2	746.36	11.31	746.36	11.31	3/18/2019	11.25	7.05	4.20	742.16	742.52	738.54	3.98
MW25-3	745.76	9.00	746.34	9.58	3/18/2019	9.80	6.32	3.48	742.86	743.25	737.58	5.67
MW25-6	744.44	14.27	744.44	14.27	3/18/2019	14.20	10.89	3.31	741.13	741.54	735.89	5.65
MW25-8	742.46	5.47	742.46	5.47	3/18/2019	5.42	3.67	1.75	740.71	740.96	737.30	3.66
MW25-9	742.36	5.42	742.36	5.42	3/18/2019	5.40	3.89	1.51	740.85	741.03	737.35	3.68
MW25-10	743.01	6.20	743.01	6.20	3/18/2019	6.38	4.00	2.38	740.63	741.63	736.88	4.75
MW25-11	740.25	7.00	740.25	7.00						736.95	733.40	3.55
MW25-13	739.64	5.53	739.64	5.53	3/18/2019	5.48	2.99	2.49	737.15	737.51	734.46	3.05
MW25-15	741.00	7.20	741.00	7.20	3/18/2019	7.19	4.11	3.08	737.92	739.03	734.03	5.00
MW25-17	743.94	11.27	743.94	11.27	3/18/2019	11.26	9.11	2.15	741.79	742.22	736.49	5.73
MW25-18	744.35	11.22	744.35	11.22	3/18/2019	11.15	7.01	4.14	740.21	744.20	737.13	7.07
MW25-19	741.95	12.00	741.95	12.00	3/18/2019	13.00	10.02	2.98	738.97	739.05	732.92	6.13

Notes:

1. The bedrock wells are not included as part of the LTM program and are not included in this table.

2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels have been adjusted to reflect the change in well total depth.

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APPENDIX D

Complete LTM Groundwater Analytical Data (Events 1 through 16)

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Appendix D
SEAD 25 Historic Groundwater Analytical Results
2019 SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20005		25LM20015		25LM20039		25LM20061		25LM20083		25LM20094		25LM20105		25LM20117	25LM20123
Sample Date												1/31/2006		8/9/2006		3/4/2008		1/13/2010		2/9/2011		2/28/2012		5/7/2013		3/17/2015	3/17/2016
QC Type												SA		SA		SA		SA		SA		SA		SA		SA	SA
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM
Sample Round												1		2		4		6		8		9		10		12	13
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total
Criteria										LOWEST-GW																	
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	0.53	J	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	5	U	5	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0			1	U					1	UJ	1	U						
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	1	U	1	U	2	U	2	U	2	U	2	U	1	U	5	U	5	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38												2	UJ	2	UJ						
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0			1	U					1	UJ	1	U						
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	U	5	U	10	UJ	5	U	5	U	5	U	25	U	10	U	10	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U	1	U	1	UJ
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	1	U	1	UJ	2	U	1	U	2	U	2	U	5	U	5	U	5	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	UJ	1	U	1	UJ	1	U					1	U	1	UJ	1	U
Diisoproply Ether	UG/L	0				0%	0	38												1	U	1	U						
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4					1	U	2	U	2	UJ	2	U						
Methyl Acetate	UG/L	0				0%	0	120				1	U	1	U	10	U	2	U	1	U	1	U	1	U	5	U	5	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	1	U	2	U	2	UJ	5	U	5	UJ	5	UJ
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	1	U	2	U	2	UJ	1	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	U	5	UJ	5	U	5	U	5	U	5	U	10	U	10	U	10	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	U	10	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	1	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43												1	UJ	1	U						
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0									1	UJ	1	U						
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3					1	U	1	U	1	UJ	1	U						
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0			1	U														
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0			1	U														
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0									1	UJ	1	U						
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0									1	UJ	1	U						
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	3	U	3	U					3	UJ	3	U	2	U	1	U	1	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	UJ	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	2	U	2	U	1	U	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	1	U	1	U	2	U	2	U	1	U	1	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U														
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U														
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U														
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U														
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U														
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U														
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U														
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U														
2-Chloronaphthalene	UG/L	0	J			0%	0	18				10	U	10	U														
2-Chlorophenol	UG/L	0	J			0%	0	18				10	U	10	U														

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20005		25LM20015		25LM20039		25LM20061		25LM20083		25LM20094		25LM20105		25LM20117		25LM20123	
Sample Date												1/31/2006		8/9/2006		3/4/2008		1/13/2010		2/9/2011		2/28/2012		5/7/2013		3/17/2015		3/17/2016	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												1		2		4		6		8		9		10		12		13	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18				10	U	10	U														
2-Methylphenol	UG/L	0	J			0%	0	18				10	U	10	U														
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	48	U	48	U														
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U														
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	19	U	19	U														
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	48	U	48	U														
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U														
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18				10	U	10	U														
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18				10	U	10	U														
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U														
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18				10	U	10	U														
4-Methylphenol	UG/L	0	J			0%	0	18				10	U	10	U														
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	48	U	48	U														
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U														
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18				10	U	10	U														
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18				1	J	10	U														
Acetophenone	UG/L	0	J			0%	0	18				10	U	10	U														
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18				10	U	10	U														
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0	10	U	10	U														
Benzaldehyde	UG/L	0	J			0%	0	18				48	U	48	U														
Benzo(a)anthracene	UG/L	0	J			0%	0	18				10	U	10	U														
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0	10	U	10	U														
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18				10	U	10	U														
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18				10	U	10	U														
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18				10	U	10	U														
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U														
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U														
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U														
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1	10	U	10	U														
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18				10	U	10	U														
Caprolactam	UG/L	0	J			0%	0	18				10	U	10	U														
Carbazole	UG/L	0	J			0%	0	18				10	U	10	U														
Chrysene	UG/L	0	J			0%	0	18				10	U	10	U														
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18				10	U	10	U														
Dibenzofuran	UG/L	0	J			0%	0	18				10	U	10	U														
Diethyl phthalate	UG/L	0	J			0%	0	18				10	U	10	U														
Dimethylphthalate	UG/L	0	J			0%	0	18				10	U	10	U														
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0	10	U	10	U														
Di-n-octylphthalate	UG/L	0	J			0%	0	18				10	U	10	U														
Fluoranthene	UG/L	0	J			0%	0	18				10	U	10	U														
Fluorene	UG/L	0	J			0%	0	18				10	U	10	UJ														
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0	10	U	10	U														
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0	10	U	10	U														
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0	43	U	43	U														
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U														
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18				10	U	10	U														
Isophorone	UG/L	0	J			0%	0	18				10	U	10	U														
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18				10	U	10	U														
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0	10	U	10	U														
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18				10	U	10	U														
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18				10	U	10	U														
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U														
Phenanthrene	UG/L	0	J			0%	0	18				10	U	10	U														
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U														
Pyrene	UG/L	0	J			0%	0	18				10	U	10	U														
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				62.8	J	358		100	U	508				231	J	200	J	200		25	J
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				8,870		6,530	J	6,090		6,420				5,040		4,800	J	9,100		5,000	
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																					
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																					
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																					
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.002	U	0.002	U	0.001	U	0.001	U			0.01	U	0.004	U	0.0011	U	0.0011	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.002	U	0.002	U	0.001	U	0.001	U			0.01	U	0.003	U	0.001	U	0.001	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.002	U	0.002	U	0.002	U	0.002	U			0.0012	J	0.002	U	0.00054	J	0.00058	U
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	0.73		0.71	J	2	U	2.1				0.45	J	5	U	2.1		0.73	
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0																		
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	18.1		18.4		12.9		27.1	J			14	J	14	J	4.2		6.5	

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10		MW25-10	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20005		25LM20015		25LM20039		25LM20061		25LM20083		25LM20094		25LM20105		25LM20117		25LM20123	
Sample Date												1/31/2006		8/9/2006		3/4/2008		1/13/2010		2/9/2011		2/28/2012		5/7/2013		3/17/2015		3/17/2016	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												1		2		4		6		8		9		10		12		13	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0							0.05	UJ			0.02	J	0.026	J	0.066		0.082	
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29				0.05	U	0.05	U	0.102	J												
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0					0.102		0.05	UJ										
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0							0.01	UJ			0.015	J	0.05	U	0.05	U	0.05	U
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29				0.05	U	0.05	U	0.01	UJ												
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																		
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0.1		0.28		0.02		0.09						0.01		0.01		0.01	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																					
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																					
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48				0.464				0.473		0.396											
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																					
ORP	mV	259		MW25-19	1/13/2010	100%	48	48				107				130		230											
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48				6.97				7.31		7.19											
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13																					
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																					
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32																			0.365		0.389	
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																					
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																					
ORP	mV	224		MW25-17	3/17/2015	100%	32	32																					
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																			165		175	
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																					
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32																					
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																			7.64		7.99	
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63				1.09		195		2.36		3.3											
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																					
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																					
Field Measurement																													
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14				4.22																	
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9				5																	
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10							0.701														
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10							4.23														
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10							138.8														
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10							6.56														
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10							21.56														
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61									3.65										12.6		8.36	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																					
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																					
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61									3.6		5.6								2.7		5.7	
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21																			3.66		1.13	

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-10		MW25-10		MW25-10		MW25-13		MW25-13		MW25-13		MW25-13		MW25-15		MW25-15	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20129		25LM20135		25LM20141		25LM20006		25LM20016		25LM20040		25LM20095		25LM20007		25LM20017	
Sample Date												3/14/2017		3/12/2018		3/19/2019		1/30/2006		8/9/2006		3/3/2008		2/28/2012		1/31/2006		8/14/2006	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												14		15		16		1		2		4		9		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U	1	UJ	1	U	1	U	1	UJ	1	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U			1	U					1	U	1	U
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	1	U	0.5	U	0.5	U	1	U	1	U	2	U	2	U	1	U	1	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38				2	U	1	U	1	U							2	UJ				
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U			1	U					1	U	1	U
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Acetone	UG/L	11	J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	U	2.5	U	2.5	U	5	U	7.8	UJ	10	UJ	5	U	5	U	12	UJ
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	0.5	U	0.5	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	0.26	J	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	2	U	1	U	1	U	1	U	1	UJ	2	U	2	U	1	U	1	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	0.5	U	0.5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0							1	U	1	U	1	UJ			1	UJ	1	U
Diisoproply Ether	UG/L	0				0%	0	38				1	U	0.5	U	0.5	U							1	U				
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	6%	7	79	NYS AWQS GA	5	4	2	U	1	U	1	U					1	U	2	U				
Methyl Acetate	UG/L	0				0%	0	120				1	U	0.75	U	0.75	U	1	U	1	U	10	U	1	U	1	U	1	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	2	U	1	U	1	U	1	U	1	U	2	U	2	UJ	1	U	1	UJ
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	2.5	U	2.5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	2	U	1	U	1	U	1	U	1	U	2	U	2	UJ	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	U	2.5	U	2.5	U	5	U	5	UJ	5	U	5	U	5	U	5	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	2.5	U	2.5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	5	U	2.5	U	2.5	U	1	U	1	UJ	1	U	5	U	1	U	1	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43				1	U	0.5	U	0.5	U							1	U				
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U							1	U				
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	U	0.5	U	0.5	U					1	U	1	U				
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0									1	U							1	U
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0									1	U							1	U
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U							1	U				
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U							1	U				
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	3	U	1.5	U	1.5	U	3	U	3	U			3	U	3	U	3	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	2	U	1	U	1	U	1	U	1	U	1	U	2	U	1	UJ	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	2	U	1	U	1	U	1	U	1	U	1	U	2	U	1	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							9	U							9	U		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							9	U							9	U		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							9	U							9	U		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							9	U							9	U		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							9	U							9	U		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							47	U							47	U		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							9	U							9	U		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							9	U							9	U		
2-Chloronaphthalene	UG/L	0	J			0%	0	18										9	U							9	U		
2-Chlorophenol	UG/L	0	J			0%	0	18										9	U							9	U		

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-10		MW25-10		MW25-10		MW25-13		MW25-13		MW25-13		MW25-13		MW25-15		MW25-15	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20129		25LM20135		25LM20141		25LM20006		25LM20016		25LM20040		25LM20095		25LM20007		25LM20017	
Sample Date												3/14/2017		3/12/2018		3/19/2019		1/30/2006		8/9/2006		3/3/2008		2/28/2012		1/31/2006		8/14/2006	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												14		15		16		1		2		4		9		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18										9	U							9	U		
2-Methylphenol	UG/L	0	J			0%	0	18										9	U							9	U		
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							47	U							47	U		
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							9	U							9	U		
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							19	U							19	U		
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							47	U							47	U		
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							47	U							47	U		
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18										9	U							9	U		
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18										9	U							9	U		
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							9	U							9	U		
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18										9	U							9	U		
4-Methylphenol	UG/L	0	J			0%	0	18										9	U							9	U		
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							47	U							47	U		
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							47	UJ							47	U		
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18										9	U							9	U		
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18										9	U							0.7	J		
Acetophenone	UG/L	0	J			0%	0	18										9	U							9	U		
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18										9	U							9	U		
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0							9	U							9	U		
Benzaldehyde	UG/L	0	J			0%	0	18										47	U							47	U		
Benzo(a)anthracene	UG/L	0	J			0%	0	18										9	U							9	U		
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0							9	U							9	U		
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18										9	U							9	U		
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18										9	U							9	U		
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18										9	U							9	U		
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							9	U							9	U		
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							9	U							9	U		
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							9	U							9	U		
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1							9	U							9	U		
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18										9	U							9	U		
Caprolactam	UG/L	0	J			0%	0	18										9	U							9	U		
Carbazole	UG/L	0	J			0%	0	18										9	U							9	U		
Chrysene	UG/L	0	J			0%	0	18										9	U							9	U		
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18										9	U							9	U		
Dibenzofuran	UG/L	0	J			0%	0	18										9	U							9	U		
Diethyl phthalate	UG/L	0	J			0%	0	18										9	U							9	U		
Dimethylphthalate	UG/L	0	J			0%	0	18										9	U							9	U		
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0							9	U							9	U		
Di-n-octylphthalate	UG/L	0	J			0%	0	18										9	U							9	U		
Fluoranthene	UG/L	0	J			0%	0	18										9	U							9	U		
Fluorene	UG/L	0	J			0%	0	18										9	U							9	U		
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0							9	U							9	U		
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0							9	U							9	U		
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0							42	U							42	U		
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0							9	U							9	U		
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18										9	U							9	U		
Isophorone	UG/L	0	J			0%	0	18										9	U							9	U		
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18										9	U							9	U		
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0							9	U							9	U		
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18										9	U							9	U		
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18										9	U							9	U		
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							47	U							47	U		
Phenanthrene	UG/L	0	J			0%	0	18										9	U							9	U		
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0							9	U							9	U		
Pyrene	UG/L	0	J			0%	0	18										9	U							9	U		
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				59.9	J	31	J	218		320	J					2,320	J	56	J	850	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				4,790		3,170		3,220		40,600						16,100		3,080		6,630	J
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																					
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																					
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																					
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.01	U	0.005	U	0.005	U	0.002	U					0.01	U	0.002	U	0.002	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.01	U	0.005	U	0.005	U	0.002	U					0.01	U	0.002	U	0.002	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.01	U	0.005	U	0.003	J	0.002	U					0.0012	J	0.002	U	0.002	U
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	61%	90	112	NYS AWQS GA	250	0			0.97	J	2		2.5						0.54	J	0.66		1.4	J
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0																		
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0			7.5		2.9		15.6						18	J	14.4		17.9	

Appendix D
SEAD 25 Historic Groundwater Analytical Results
2019 SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-10		MW25-10		MW25-10		MW25-13		MW25-13		MW25-13		MW25-13		MW25-15		MW25-15	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20129		25LM20135		25LM20141		25LM20006		25LM20016		25LM20040		25LM20095		25LM20007		25LM20017	
Sample Date												3/14/2017		3/12/2018		3/19/2019		1/30/2006		8/9/2006		3/3/2008		2/28/2012		1/31/2006		8/14/2006	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												14		15		16		1		2		4		9		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0			0.028	J	2.2	J							0.051					
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29										0.05	U							0.05	U	0.05	U
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0			0.011	J	0.025	U							0.015	J				
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29										0.05	U							0.05	U	0.087	
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																		
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81										0.02				0.01	U			0.01	U	0.8	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																					
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																					
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48										0.492				0.639				0.36			
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																					
ORP	mV	259		MW25-19	1/13/2010	100%	48	48										38				97				82			
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48										7.27				7.52				7.2			
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13																					
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																					
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32																					
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																					
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																					
ORP	mV	224		MW25-17	3/17/2015	100%	32	32																					
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																					
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																					
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32																					
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63										21		100		16.4				1.1		27.4	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																					
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																					
Field Measurement																													
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14										0.94								2.93			
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9										3.8								5.3			
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10												0.699								0.651	
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10												4.1								1.99	
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10												-22.2								222.1	
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10												6.98								5.8	
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10												23.42								18.76	
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61														4.79							
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																					
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																					
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61														3							
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21																					

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-15		MW25-15		MW25-15		MW25-15		MW25-15		MW25-17		MW25-17		MW25-17	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20041		25LM20052		25LM20063		25LM20085		25LM20096		25LM20107		25LM20008		25LM20018		25LM20028	
Sample Date												3/3/2008		4/29/2009		1/13/2010		2/9/2011		2/28/2012		5/7/2013		1/30/2006		8/11/2006		6/7/2007	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												4		5		6		8		9		10		1		2		3	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U		
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U		
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0							1	UJ	1	U					1	U		
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	2	U	2	U	2	U	2	U	2	U	1	U	1	U	1	U		
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U		
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38										2	UJ	2	UJ								
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0							1	UJ	1	U					1	U		
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U		
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U		
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				10	UJ	5	U	5	U	5	U	5	U	25	U	5	U	5	U	5	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	2	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	1	U	1	U	1	U	2	U	1	U	1	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	2	U	1	U	1	U	2	U	2	U	5	U	1	U	1	U	1	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U	1	U		
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	UJ	1	U	1	U					1	U	1	U	1	U		
Diisoproply Ether	UG/L	0				0%	0	38										1	U	1	U								
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4	1	U	2	U	2	U	2	UJ	2	U							2	U
Methyl Acetate	UG/L	0				0%	0	120				10	U	2	U	2	U	1	U	1	U	1	U	1	U	1	U		
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	2	U	1	UJ	1	U	2	U	2	UJ	5	U	1	U	1	UJ	1	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	5	U	5	U	5	U	10	U	5	U	5	U	2	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	2	U	1	U	1	U	2	U	2	UJ	1	U	1	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U		
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	U	5	U	5	U	5	U	5	U	10	U	5	U	5	U	2	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	5	U	5	U	5	U	10	U	5	U	5	U	1	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	1	U	1	U	1	U	10	U	1	U	1	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	5	U	5	U	5	U	1	U	1	U	1	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43										1	UJ	1	U							1	U
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0							1	UJ	1	U								
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	U	1	U	1	U	1	UJ	1	U							1	U
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0																		
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0							1	UJ	1	U								
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0							3	UJ	3	U	2	U	3	U	3	U		
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	2	U	2	U	1	U	1	U	1	U		
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	1	U	2	U	2	U	1	U	1	U	1	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	U	49	U		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
2-Chloronaphthalene	UG/L	0	J			0%	0	18																9	U	10	U		
2-Chlorophenol	UG/L	0	J			0%	0	18																9	U	10	U		

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-15		MW25-15		MW25-15		MW25-15		MW25-15		MW25-15		MW25-17		MW25-17		MW25-17	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20041		25LM20052		25LM20063		25LM20085		25LM20096		25LM20107		25LM20008		25LM20018		25LM20028	
Sample Date												3/3/2008		4/29/2009		1/13/2010		2/9/2011		2/28/2012		5/7/2013		1/30/2006		8/11/2006		6/7/2007	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												4		5		6		8		9		10		1		2		3	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																9	U	10	U		
2-Methylphenol	UG/L	0	J			0%	0	18																9	U	10	U		
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													47	U	49	U		
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													19	U	20	U		
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													47	U	49	U		
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	U	49	U		
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																9	U	10	U		
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																9	U	10	U		
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																9	U	10	U		
4-Methylphenol	UG/L	0	J			0%	0	18																9	U	10	U		
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													47	U	49	U		
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	UJ	49	U		
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	5%	1	18																9	U	10	U		
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																9	U	10	U		
Acetophenone	UG/L	0	J			0%	0	18																9	U	10	U		
Anthracene	UG/L	1	J	MW25-8	1/31/2006	5%	1	18																9	U	10	U		
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0													9	U	10	U		
Benzaldehyde	UG/L	0	J			0%	0	18																47	U	49	U		
Benzo(a)anthracene	UG/L	0	J			0%	0	18																9	U	10	U		
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0													9	U	10	U		
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																9	U	10	U		
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	5%	1	18																9	U	10	U		
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																9	U	10	U		
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	5%	1	18	EPA MCL	6	1													9	U	10	U		
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	5%	1	18																9	U	10	U		
Caprolectam	UG/L	0	J			0%	0	18																9	U	10	U		
Carbazole	UG/L	0	J			0%	0	18																9	U	10	U		
Chrysene	UG/L	0	J			0%	0	18																9	U	10	U		
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																9	U	10	U		
Dibenzofuran	UG/L	0	J			0%	0	18																9	U	10	U		
Diethyl phthalate	UG/L	0	J			0%	0	18																9	U	10	U		
Dimethylphthalate	UG/L	0	J			0%	0	18																9	U	10	U		
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0													9	U	10	U		
Di-n-octylphthalate	UG/L	0	J			0%	0	18																9	U	10	U		
Fluoranthene	UG/L	0	J			0%	0	18																9	U	10	U		
Fluorene	UG/L	0	J			0%	0	18																9	U	10	U		
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0													9	U	10	U		
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0													9	U	10	U		
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0													42	U	44	U		
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																9	U	10	U		
Isophorone	UG/L	0	J			0%	0	18																9	U	10	U		
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	5%	1	18																9	U	10	U		
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0													9	U	10	U		
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																9	U	10	U		
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																9	U	10	U		
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	U	49	U		
Phenanthrene	UG/L	0	J			0%	0	18																9	U	10	U		
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
Pyrene	UG/L	0	J			0%	0	18																9	U	10	U		
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				100	U	30	J	769				3,840	J	530		46.1		8.8	U	490	J
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				6,340		3,500		3,620				3,130		2,800		4,240		5,170	J	9,300	J
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																				0.25	
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																				1.4	
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																				7	
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.004	U	0.002	U	0.002	U		
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.003	U	0.002	U	0.002	U		
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.002	U	0.002	U	0.002	U	0.0021	J	0.0012	J	0.002	U	0.002	U	0.002	U		
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	2	U	2	U	2	U			0.56	J	5	U	0.7		1.4	J		
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0			0.5	U														
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	13.3		20.3		24.8	J			14	J	9.5		17.2		16.3			

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-15		MW25-15		MW25-15		MW25-15		MW25-15		MW25-17		MW25-17		MW25-17	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20041		25LM20052		25LM20063		25LM20085		25LM20096		25LM20107		25LM20008		25LM20018		25LM20028	
Sample Date												3/3/2008		4/29/2009		1/13/2010		2/9/2011		2/28/2012		5/7/2013		1/30/2006		8/11/2006		6/7/2007	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												4		5		6		8		9		10		1		2		3	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0					0.05	UJ			0.018	J	0.019	J						
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29				0.16	J											0.05	U	0.11			
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0	0.16				0.05	UJ												
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0			0.01	U	0.01	UJ			0.02	J	0.05	U						
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29				0.01	UJ											0.05	U	0.05	U		
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																	3.7	
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																	0.48	J
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																	0.5	UJ
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																	18	
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0.01	U	0.01	U	0.17				0.05		0.05		0.01		0.01	U	0.06	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																					
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																					
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48				0.477				0.38								0.462				0.416	
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																					
ORP	mV	259		MW25-19	1/13/2010	100%	48	48				139				213								68				134	
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48				7.25				7.23								7.69				7.2	
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13																				13.2	
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																				12	
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32												0.419									
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																					
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																					
ORP	mV	224		MW25-17	3/17/2015	100%	32	32												97									
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																					
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																					
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32												7									
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63				3.58				1.5								3.4		1.7			
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																					
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																					
Field Measurement																													
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14																8.46				0.31	
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																6.3					
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																		0.593			
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																		5.31			
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																		157			
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																		6.72			
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																		18.27			
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61				4.57								1.55									
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																					
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																					
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61				4.7				6.1				5.1									
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21												4.2									

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20024		25LM20033		25LM20032		25LM20043		25LM20055		25LM20065		25LM20076		25LM20088		25LM20098		
Sample Date												6/7/2007		3/4/2008		3/4/2008		4/28/2009		1/14/2010		8/5/2010		2/10/2011		2/28/2012		5/8/2013		
QC Type												DU		SA		DU		SA		SA		SA		SA		SA		SA		
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		
Sample Round												3		4		4		5		6		7		8		9		10		
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total		
Criteria										LOWEST-GW																				
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0			1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0			1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0													1	UJ	1	U		
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0			2	U	2	U	2	U	2	U	2	U	2	U	2	U	1	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0			1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38																2	UJ	2	UJ		
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0													1	UJ	1	U		
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0			1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0			1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	U	10	UJ	10	UJ	5	U	5	U	5	U	5	U	5	U	25	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	2	U	1	UJ	1	UJ	1	U	1	U	1	U	1	UJ	1	U	1	UJ
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	1	U	2	U	2	U	1	U	1	U	1	U	2	U	2	U	5	UJ
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120						1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0			1	UJ	1	UJ	1	U	1	U	1	U					1	U
Diisoproply Ether	UG/L	0				0%	0	38																1	U	1	U		
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4	2	U	1	U	1	U	2	U	2	U	2	U	2	UJ	2	U		
Methyl Acetate	UG/L	0				0%	0	120						10	U	10	U	2	U	2	U	2	U	1	U	1	U	1	UJ
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	2	U	2	U	1	U	1	U	1	U	2	U	2	UJ	5	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				2	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	10	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	2	U	2	U	1	U	1	U	1	U	2	U	2	UJ	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120						1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				2	U	0.93	J	0.75	J	5	U	5	U	5	U	5	U	5	U	10	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				1	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	10	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	5	U	5	U	5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43				1	U											1	UJ	1	U		
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0													1	UJ	1	U		
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U		
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0													1	UJ	1	U		
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0													1	UJ	1	U		
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0													3	UJ	3	U	2	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0			1	U	1	U	1	U	1	U	1	U	2	U	2	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	1	U	1	U	1	U	1	U	2	U	2	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2-Chloronaphthalene	UG/L	0	J			0%	0	18																					
2-Chlorophenol	UG/L	0	J			0%	0	18																					

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20024		25LM20033		25LM20032		25LM20043		25LM20055		25LM20065		25LM20076		25LM20088		25LM20096	
Sample Date												6/7/2007		3/4/2008		3/4/2008		4/26/2009		1/14/2010		8/5/2010		2/10/2011		2/28/2012		5/8/2013	
QC Type												DU		SA		DU		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												3		4		4		5		6		7		8		9		10	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																					
2-Methylphenol	UG/L	0	J			0%	0	18																					
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																					
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																					
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																					
4-Methylphenol	UG/L	0	J			0%	0	18																					
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																					
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																					
Acetophenone	UG/L	0	J			0%	0	18																					
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																					
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0																		
Benzaldehyde	UG/L	0	J			0%	0	18																					
Benzo(a)anthracene	UG/L	0	J			0%	0	18																					
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0																		
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																					
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																					
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																					
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1																		
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																					
Caprolactam	UG/L	0	J			0%	0	18																					
Carbazole	UG/L	0	J			0%	0	18																					
Chrysene	UG/L	0	J			0%	0	18																					
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																					
Dibenzofuran	UG/L	0	J			0%	0	18																					
Diethyl phthalate	UG/L	0	J			0%	0	18																					
Dimethylphthalate	UG/L	0	J			0%	0	18																					
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0																		
Di-n-octylphthalate	UG/L	0	J			0%	0	18																					
Fluoranthene	UG/L	0	J			0%	0	18																					
Fluorene	UG/L	0	J			0%	0	18																					
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0																		
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0																		
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0																		
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																					
Isophorone	UG/L	0	J			0%	0	18																					
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	6%	1	18																					
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0																		
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																					
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																					
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
Phenanthrene	UG/L	0	J			0%	0	18																					
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
Pyrene	UG/L	0	J			0%	0	18																					
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				390	J	100	U	100	U	160		86.9	J	56.4	J	15.9	J	22.4	J	100	U
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				7,700	J	4,410		4,690		4,700		4,450		5,650		4,470		4,370		5,500	J
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5				0.21																	
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5				1.2																	
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5				6.1																	
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117						0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.004	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117						0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.003	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117						0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.00098	J	0.00093	J	0.002	U
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0			2	U	2	U	2	U	2.5		5.3		2.3		0.47	J	5	U
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0							0.5	U										
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0			19.1		19.6		17.3		16.7	J	21.7		16	J	11	J	18	J

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-18		MW25-18		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20108		25LM20111		25LM20112		25LM20118		25LM20124		25LM20130		25LM20136		25LM20009		25LM20019	
Sample Date												6/18/2014		6/18/2014		3/17/2015		3/16/2016		3/13/2017		3/12/2018		3/19/2019		1/30/2006		8/14/2006	
QC Type												SA		DU		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												11		11		12		13		14		15		16		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																		10	U	10	U
2-Methylphenol	UG/L	0	J			0%	0	18																		10	U	10	U
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															48	U	48	U
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															19	U	19	U
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															48	U	48	U
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															48	U	48	U
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																		10	U	10	U
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																		10	U	10	U
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																		10	U	10	U
4-Methylphenol	UG/L	0	J			0%	0	18																		10	U	10	U
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															48	U	48	U
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															48	UJ	48	U
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																		10	U	10	U
Acetophenone	UG/L	0	J			0%	0	18																		10	U	10	U
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0															10	U	10	U
Benzaldehyde	UG/L	0	J			0%	0	18																		48	U	48	U
Benzo(a)anthracene	UG/L	0	J			0%	0	18																		10	U	10	U
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0															10	U	10	U
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1															10	U	11	
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																		10	U	2	J
Caprolactam	UG/L	0	J			0%	0	18																		10	U	10	U
Carbazole	UG/L	0	J			0%	0	18																		10	U	10	U
Chrysene	UG/L	0	J			0%	0	18																		10	U	10	U
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																		10	U	10	U
Dibenzofuran	UG/L	0	J			0%	0	18																		10	U	10	U
Diethyl phthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Dimethylphthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0															10	U	10	UJ
Di-n-octylphthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Fluorene	UG/L	0	J			0%	0	18																		10	U	10	U
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0															10	U	10	U
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0															10	U	10	U
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0															43	U	44	U
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																		10	U	10	U
Isophorone	UG/L	0	J			0%	0	18																		10	U	10	U
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																		10	U	10	U
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0															10	U	10	U
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																		10	U	10	U
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																		10	U	10	U
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															48	U	48	U
Phenanthrene	UG/L	0	J			0%	0	18																		10	U	10	U
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
Pyrene	UG/L	0	J			0%	0	18																		10	U	10	U
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				100	U	100	U	100	U	50	U	30	J	9.8	J	28	J	462	J	357	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				7,500	J	4,900	J	5,200		3,500		5,830		3,160		3,850		22,300		41,900	J
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																					
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																					
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																					
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.01	U	0.005	U	0.005	U	0.002	U	0.002	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.005	U	0.005	U	0.002	U	0.002	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.00035	J	0.00058	U	0.00096		0.00029	J	0.01	U	0.0028	J	0.0023	J	0.002	U	0.002	U
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	0.59		0.59		1.2		0.33	J	2.2		0.6	J	0.43	J	18.6		55.6	
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0																		
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	14		14		16		7.2		11		11		6.1		24.8		30.1	

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-18		MW25-18		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20108		25LM20111		25LM20112		25LM20118		25LM20124		25LM20130		25LM20136		25LM20009		25LM20019	
Sample Date												6/18/2014		6/18/2014		3/17/2015		3/16/2016		3/13/2017		3/12/2018		3/19/2019		1/30/2006		8/14/2006	
QC Type												SA		DU		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												11		11		12		13		14		15		16		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0	0.17		0.17		0.24		0.18		0.16		0.22		0.091					
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29																		0.05	U	0.32	
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.018	J	0.025	U				
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29																		0.05	U	0.05	U
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																		
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81								0.01		0.01								0.12		0.02	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																					
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																					
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48																					
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																		0.494			
ORP	mV	259		MW25-19	1/13/2010	100%	48	48																		63			
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48																		7.62			
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13																					
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																					
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32								0.52		0.482											
Conductivity (post)	S/m	0.644		MW25-18	2/10/2011	100%	3	3																					
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																					
ORP	mV	224		MW25-17	3/17/2015	100%	32	32								224		170											
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																					
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																					
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32								7.51		8.37											
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63																		31.8		6.22	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																					
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																					
Field Measurement																													
Dissolved Oxygen	MG/L	6.46		MW25-17	1/30/2006	100%	14	14																		3.99			
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																		7.2			
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																				0.858	
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																				6.21	
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																				46	
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																				7.32	
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																				24.41	
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61								5.59		6.24											
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																					
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																					
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61								5		5.6											
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21								1.65		0.75											

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-19	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20029		25LM20034		25LM20044		25LM20056		25LM20066		25LM20077		25LM20089		25LM20099		25LM20030	
Sample Date												6/6/2007		3/5/2008		4/28/2009		1/14/2010		8/5/2010		2/10/2011		2/29/2012		5/8/2013		6/7/2007	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												3		4		5		6		7		8		9		10		3	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0			1	U	1	U	1	U	1	U	1	U	1	UJ	1	U		
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0			1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ		
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0											1	UJ	1	U				
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0			2	U	2	U	2	U	2	U	2	U	2	U	1	U		
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0			1	U	1	U	1	U	1	U	1	UJ	1	U	1	U		
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38														2	UJ	2	UJ				
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0											1	UJ	1	U				
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0			1	U	1	U	1	U	1	U	1	UJ	1	U	1	U		
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0			1	U	1	U	1	U	1	U	1	UJ	1	U	1	U		
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	UJ	10	UJ	5	U	5	U	5	U	5	U	5	U	25	U	5	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	2	UJ	1	UJ	1	U	1	U	1	U	1	UJ	1	U	1	UJ	2	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	2	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	1	UJ	2	U	1	U	1	U	1	U	2	U	2	U	5	UJ	1	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	0.2	J
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120						1	U	1	U	1	U	1	U	1	UJ	1	U	1	U		
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0			1	UJ	1	U	1	U	1	U					1	U		
Diisoproply Ether	UG/L	0				0%	0	38														1	U	1	U				
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4	2	UJ	1	U	2	U	2	U	2	U	2	UJ	2	U			2	U
Methyl Acetate	UG/L	0				0%	0	120						10	U	2	U	2	U	2	U	1	U	1	U	1	UJ		
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	UJ	2	U	1	U	1	U	1	U	2	U	2	UJ	5	U	1	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				2	U	5	U	5	U	5	U	5	U	5	U	5	U	10	U	2	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	2	U	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120						1	U	1	U	1	U	1	U	1	U	1	U	1	U		
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				2	UJ	0.5	J	5	U	5	U	5	U	5	U	5	U	10	U	2	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				1	UJ	5	U	5	U	5	U	5	U	5	U	5	U	10	U	1	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	10	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U	5	U	5	U	5	U	1	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43				1	UJ									1	UJ	1	U			1	U
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0											1	UJ	1	U				
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U			1	U
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0											1	UJ	1	U				
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0											1	UJ	1	U				
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0											3	UJ	3	U	2	U		
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0			1	U	1	U	1	U	1	U	2	U	2	U	1	U		
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	UJ	1	U	1	U	1	U	1	U	2	U	2	U	1	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2-Chloronaphthalene	UG/L	0	J			0%	0	18																					
2-Chlorophenol	UG/L	0	J			0%	0	18																					

Area													SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID													MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-19	
Matrix													GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID													25LM20029		25LM20034		25LM20044		25LM20056		25LM20066		25LM20077		25LM20089		25LM20099		25LM20030	
Sample Date													6/6/2007		3/5/2008		4/28/2009		1/14/2010		8/5/2010		2/10/2011		2/29/2012		5/8/2013		6/7/2007	
QC Type													SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID													LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round													3		4		5		6		7		8		9		10		3	
Filtered													Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																				
2-Methylphenol	UG/L	0	J			0%	0	18																				
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																				
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																				
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																				
4-Methylphenol	UG/L	0	J			0%	0	18																				
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																				
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																				
Acetophenone	UG/L	0	J			0%	0	18																				
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																				
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0																	
Benzaldehyde	UG/L	0	J			0%	0	18																				
Benzo(a)anthracene	UG/L	0	J			0%	0	18																				
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0																	
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																				
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																				
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																				
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1																	
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																				
Caprolactam	UG/L	0	J			0%	0	18																				
Carbazole	UG/L	0	J			0%	0	18																				
Chrysene	UG/L	0	J			0%	0	18																				
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																				
Dibenzofuran	UG/L	0	J			0%	0	18																				
Diethyl phthalate	UG/L	0	J			0%	0	18																				
Dimethylphthalate	UG/L	0	J			0%	0	18																				
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0																	
Di-n-octylphthalate	UG/L	0	J			0%	0	18																				
Fluoranthene	UG/L	0	J			0%	0	18																				
Fluorene	UG/L	0	J			0%	0	18																				
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0																	
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0																	
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0																	
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																				
Isophorone	UG/L	0	J			0%	0	18																				
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																				
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0																	
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																				
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																				
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Phenanthrene	UG/L	0	J			0%	0	18																				
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Pyrene	UG/L	0	J			0%	0	18																				
Inorganics																												
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				500	J	107		100	J	122		83.8	J	250		446	J	440	J	1,200	J
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				37,000	J	20,400		19,000		28,400		58,100		41,900		27,300		22,000	J	3,800	J
Wet Chemistry - MEE																												
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5				0.024	J															1.1	
Ethene	UG/L	4.6		MW25-18	6/7/2007	100%	5	5				2																4.6	
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5				2																29	
Wet Chemistry - MEE																												
Ethane	MG/L	0				0%	0	117						0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.004	U		
Ethane	UG/L	0				0%	0	0																				
Ethene	MG/L	0				0%	0	117						0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.003	U		
Ethene	UG/L	0				0%	0	0																				
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117						0.002	U	0.002	U	0.002	U	0.002	U	0.0013	J	0.0019	J	0.002	U		
Methane	UG/L	0				0%	0	0																				
Wet Chemistry - EPA 300.0																												
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0			18		16.3		51.7		97.9		72		20	J	16			
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0					0.5	U												
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0			16.8		22.8		26.8	J	40.2		32	J	21	J	27	J		

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-18		MW25-19	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20029		25LM20034		25LM20044		25LM20056		25LM20066		25LM20077		25LM20089		25LM20099		25LM20030	
Sample Date												6/6/2007		3/5/2008		4/28/2009		1/14/2010		8/5/2010		2/10/2011		2/29/2012		5/8/2013		6/7/2007	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												3		4		5		6		7		8		9		10		3	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																														
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0							0.2	J			0.18		0.13		0.18				
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29						0.199	J															
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0			0.199				0.2	J	0.18	J									
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0					0.01	U	0.01	UJ			0.05	U	0.022	J	0.05	U			
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29						0.01	UJ															
Wet Chemistry - Nitrite/N																														
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0	59																4.5		
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0	1.5	J															1.4	J	
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0	0.5																0.72	J	
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0	31																23		
Field Measurement																														
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				1.04		0.01		0.01	U	0.06		0.01		0.03		0.01		0.05		0.1		
Field Measurement																														
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3														0.5								
Field Measurement																														
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3														0.2								
Field Measurement																														
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48				0.54		0.713		0.385		0.544		0.893								0.427		
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																						
ORP	mV	259		MW25-19	1/13/2010	100%	48	48				98		144		150		237		123								117		
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48				7.15		7.31		7.3		7.28		7.21								7.04		
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13				13								19.3								13.4		
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6				11																17		
Field Measurement																														
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32																0.548		0.566				
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3														0.844								
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3														0.83								
ORP	mV	224		MW25-17	3/17/2015	100%	32	32																70		48				
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3														185								
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3														187								
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32																7.16		7.81				
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3														7.29								
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3														7.3								
Field Measurement																														
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63						5.04		11		2.78		3.12						7.55				
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2														7.6								
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1														0								
Field Measurement																														
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14				0.96																0.05		
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																						
Field Measurement																														
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																						
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																						
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																						
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																						
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																						
Field Measurement																														
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61						4.68		4.43		4.39		2.1				3.89		5.26				
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3														2.99								
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3														3.52								
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61						4.9		7.1		8				6.3		6.7		7.6				
Field Measurement - Geo Parameters																														
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21																3.66						

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20024		25LM20033		25LM20032		25LM20043		25LM20055		25LM20065		25LM20076		25LM20088	25LM20098
Sample Date												6/7/2007		3/4/2008		3/4/2008		4/28/2009		1/14/2010		8/5/2010		2/10/2011		2/28/2012	5/8/2013
QC Type												DU		SA		DU		SA		SA		SA		SA		SA	SA
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM
Sample Round												3		4		4		5		6		7		8		9	10
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total
Criteria											LOWEST-GW																
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																			
2-Methylphenol	UG/L	0	J			0%	0	18																			
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																			
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																			
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																			
4-Methylphenol	UG/L	0	J			0%	0	18																			
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																			
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																			
Acetophenone	UG/L	0	J			0%	0	18																			
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																			
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0																
Benzaldehyde	UG/L	0	J			0%	0	18																			
Benzo(a)anthracene	UG/L	0	J			0%	0	18																			
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0																
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																			
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																			
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																			
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1																
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																			
Caprolactam	UG/L	0	J			0%	0	18																			
Carbazole	UG/L	0	J			0%	0	18																			
Chrysene	UG/L	0	J			0%	0	18																			
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																			
Dibenzofuran	UG/L	0	J			0%	0	18																			
Diethyl phthalate	UG/L	0	J			0%	0	18																			
Dimethylphthalate	UG/L	0	J			0%	0	18																			
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0																
Di-n-octylphthalate	UG/L	0	J			0%	0	18																			
Fluoranthene	UG/L	0	J			0%	0	18																			
Fluorene	UG/L	0	J			0%	0	18																			
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0																
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0																
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0																
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																			
Isophorone	UG/L	0	J			0%	0	18																			
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																			
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0																
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																			
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																			
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																
Phenanthrene	UG/L	0	J			0%	0	18																			
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																
Pyrene	UG/L	0	J			0%	0	18																			
Inorganics																											
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				390	J	100	U	100	U	160		86.9	J	56.4	J	15.9	J	22.4	J	100	U
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				7,700	J	4,410		4,690		4,700		4,450		5,650		4,470		4,370		5,500	J
Wet Chemistry - MEE																											
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5				0.21															
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5				1.2															
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5				6.1															
Wet Chemistry - MEE																											
Ethane	MG/L	0				0%	0	117						0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.004	U
Ethane	UG/L	0				0%	0	0																			
Ethene	MG/L	0				0%	0	117						0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.003	U
Ethene	UG/L	0				0%	0	0																			
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117						0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.00096	J	0.00093	J	0.002	U
Methane	UG/L	0				0%	0	0																			
Wet Chemistry - EPA 300.0																											
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0			2	U	2	U	2	U	2.5		5.3		2.3		0.47	J	5	U
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0							0.5	U								
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0			19.1		19.6		17.3		16.7	J	21.7		16	J	11	J	18	J

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20024		25LM20033		25LM20032		25LM20043		25LM20055		25LM20065		25LM20076		25LM20088		25LM20098		
Sample Date												6/7/2007		3/4/2008		3/4/2008		4/28/2009		1/14/2010		8/5/2010		2/10/2011		2/28/2012		5/8/2013		
QC Type												DU		SA		DU		SA		SA		SA		SA		SA		SA		
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		
Sample Round												3		4		4		5		6		7		8		9		10		
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total		
Criteria										LOWEST-GW																				
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0									0.245	J			0.27		0.12		0.19	
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29						1	J	0.798	J												
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0			1		0.798				0.245	J	0.484	J						
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0							0.01	U	0.01	UJ			0.05	U	0.015	J	0.05	U
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29						0.01	UJ	0.01	UJ												
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0	3.5																	
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0	6.4	J																
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0	0.73	J																
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0	19																	
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0.06		0.01		0.01		0.01	U	0		0		0		0		0.01	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																0.1					
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																0.004					
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48				0.418		0.532		0.532		0.379		0.418		0.584							
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																					
ORP	mV	259		MW25-19	1/13/2010	100%	48	48				134		155		155		192		211		61							
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48				7.2		7.3		7.3		7.31		7.29		7.25							
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13				13.2										17.6							
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6				12																	
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32																		0.423		0.558	
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																0.599					
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																0.547					
ORP	mV	224		MW25-17	3/17/2015	100%	32	32																		196		73	
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																192					
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																193					
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32																		7.48		7.76	
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																7.38					
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																7.38					
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63						2.03		2.03		1.2		1.4		2.45						2.48	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																0					
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																0					
Field Measurement																													
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14				0.31																	
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																					
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																					
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																					
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																					
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																					
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																					
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61						8.24		8.24		7.45		6.79		4.1				6.91		6.52	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																5.17					
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																5.36					
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61						6		6		7.2		8.1				6.4		6.5		7.4	
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21																		3.47			

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-18		MW25-18	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20106		25LM20111		25LM20112		25LM20118		25LM20124		25LM20130		25LM20136		25LM20009		25LM20019	
Sample Date												6/18/2014		6/18/2014		3/17/2015		3/16/2016		3/13/2017		3/12/2018		3/19/2019		1/30/2006		8/14/2006	
QC Type												SA		DU		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												11		11		12		13		14		15		16		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	UJ	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	UJ	1	U	5	U	5	U	1	UJ	0.5	U	0.5	U	1	U	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0									1	U	0.5	U	0.5	U			1	U
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	1	U	1	U	5	U	5	U	1	U	0.5	U	0.5	U	1	U	1	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38												2	U	1	U	1	U				
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0									1	U	0.5	U	0.5	U			1	U
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				25	U	25	U	10	U	10	U	5	U	2.5	U	2.5	U	5	U	5	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	2	U	2	U	2	U	2	U	1	U	0.35	J	0.5	U	1	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	5	U	5	UJ	5	U	5	U	2	U	1	U	1	U	1	U	1	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	UJ	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	U	1	U	1	UJ	1	U							1	U	1	U
Diisoproply Ether	UG/L	0				0%	0	38												1	U	0.5	U	0.5	U				
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4									2	U	1	U	1	U				
Methyl Acetate	UG/L	0				0%	0	120				1	U	1	U	5	U	5	U	1	U	0.75	U	0.75	U	1	U	1	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	5	U	5	U	5	UJ	5	UJ	2	U	1	U	1	U	1	U	1	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				10	U	10	U	10	U	10	U	5	U	2.5	U	2.5	U	5	U	5	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	2	U	1	U	1	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				10	U	10	U	10	U	10	U	5	U	2.5	U	2.5	U	5	U	5	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				10	U	10	U	10	U	10	U	5	U	2.5	U	2.5	U	5	U	5	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				10	U	10	U	10	U	10	U	1	U	0.5	U	0.5	U	1	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	5	U	5	U	5	U	5	U	5	U	2.5	U	2.5	U	1	U	1	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43												1	U	0.5	U	0.5	U				
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0									1	U	0.5	U	0.5	U				
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3									1	U	0.5	U	0.5	U				
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																	1	U
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																	1	U
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0									1	U	0.5	U	0.5	U				
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0									1	U	0.5	U	0.5	U				
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	2	U	2	U	1	U	1	U	3	U	1.5	U	1.5	U	3	U	3	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	2	U	1	U	1	U	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	1	U	1	U	2	U	1	U	1	U	1	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															48	U	48	UJ
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
2-Chloronaphthalene	UG/L	0	J			0%	0	18																		10	U	10	U
2-Chlorophenol	UG/L	0	J			0%	0	18																		10	U	10	U

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-17		MW25-18		MW25-18		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20108		25LM20111		25LM20112		25LM20118		25LM20124		25LM20130		25LM20136		25LM20009		25LM20019	
Sample Date												6/18/2014		6/18/2014		3/17/2015		3/16/2016		3/13/2017		3/12/2018		3/19/2019		1/30/2006		8/14/2006	
QC Type												SA		DU		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												11		11		12		13		14		15		16		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																		10	U	10	U
2-Methylphenol	UG/L	0	J			0%	0	18																		10	U	10	U
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															48	U	48	U
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															19	U	19	U
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															48	U	48	U
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															48	U	48	U
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																		10	U	10	U
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																		10	U	10	U
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																		10	U	10	U
4-Methylphenol	UG/L	0	J			0%	0	18																		10	U	10	U
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															48	U	48	U
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															48	UJ	48	U
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																		10	U	10	U
Acetophenone	UG/L	0	J			0%	0	18																		10	U	10	U
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0															10	U	10	U
Benzaldehyde	UG/L	0	J			0%	0	18																		48	U	48	U
Benzo(a)anthracene	UG/L	0	J			0%	0	18																		10	U	10	U
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0															10	U	10	U
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1															10	U	11	
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																		10	U	2	J
Caprolactam	UG/L	0	J			0%	0	18																		10	U	10	U
Carbazole	UG/L	0	J			0%	0	18																		10	U	10	U
Chrysene	UG/L	0	J			0%	0	18																		10	U	10	U
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																		10	U	10	U
Dibenzofuran	UG/L	0	J			0%	0	18																		10	U	10	U
Diethyl phthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Dimethylphthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0															10	U	10	U
Di-n-octylphthalate	UG/L	0	J			0%	0	18																		10	U	10	UJ
Fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Fluorene	UG/L	0	J			0%	0	18																		10	U	10	U
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0															10	U	10	U
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0															10	U	10	U
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0															43	U	44	U
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																		10	U	10	U
Isophorone	UG/L	0	J			0%	0	18																		10	U	10	U
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																		10	U	10	U
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0															10	U	10	U
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																		10	U	10	U
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																		10	U	10	U
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															48	U	48	U
Phenanthrene	UG/L	0	J			0%	0	18																		10	U	10	U
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
Pyrene	UG/L	0	J			0%	0	18																		10	U	10	U
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				100	U	100	U	100	U	50	U	30	J	9.8	J	28	J	462	J	357	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				7,500	J	4,900	J	5,200		3,500		5,830		3,160		3,850		22,300		41,900	J
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																					
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																					
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																					
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.01	U	0.005	U	0.005	U	0.002	U	0.002	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.005	U	0.005	U	0.002	U	0.002	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.00035	J	0.00058	U	0.00096		0.00029	J	0.01	U	0.0028	J	0.0023	J	0.002	U	0.002	U
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	61%	90	112	NYS AWQS GA	250	0	0.59		0.59		1.2		0.33	J	2.2		0.6	J	0.43	J	18.6		55.6	
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0																		
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	14		14		16		7.2		11		11		6.1		24.8		30.1	

Appendix D
SEAD 25 Historic Groundwater Analytical Results
2019 SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-19		MW25-19		MW25-19		MW25-19		MW25-19		MW25-19		MW25-19		MW25-2	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20035		25LM20045		25LM20057		25LM20067		25LM20078		25LM20090		25LM20100		25LM20000	
Sample Date												3/3/2008		4/28/2009		1/13/2010		8/4/2010		2/9/2011		2/28/2012		5/7/2013		4/12/2006	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												4		5		6		7		8		9		10		1	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																	
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	UJ	5	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	1	U	1	UJ	1	U	5	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	UJ	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0									1	UJ	1	U					1	U
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	2	U	2	U	2	U	5	U	2	U	2	U	1	U	5	UJ	1	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38												2	UJ	2	UJ						
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0									1	UJ	1	U					1	U
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				10	UJ	1.4	J	5	U	13	U	5	U	5	U	25	U	25	U	10	UJ
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	16		2	
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	UJ	5	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	1	U	2.5	U	1	U	1	U	2	U	5	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	UJ	5	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	2	U	1	U	1	U	2.5	U	2	U	2	U	5	U	5	UJ	1	UJ
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	2.5	U	1	UJ	1	UJ	1	U	5	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	8.6		1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	UJ	1	U	1	U	2.5	U					1	U	5	U	1	U
Diisoproply Ether	UG/L	0				0%	0	38												1	U	1	U						
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	19		0.77	J
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4	1	U	2	U	2	U	5	U	2	UJ	2	U						
Methyl Acetate	UG/L	0				0%	0	120				10	U	2	U	2	U	5	U	1	U	1	U	1	U	5	UJ	1	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	2	U	1	U	1	U	2.5	U	2	U	2	UJ	5	U	5	U	1	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	5	U	13	U	5	U	5	U	10	U	25	U	5	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	2	U	1	U	1	U	2.5	U	2	U	2	UJ	1	U	5	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U	2.5	U	1	U	1	U	1	U	4.2	J	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	U	5	U	5	U	13	U	5	U	5	U	10	U	25	U	5	UJ
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	5	U	13	U	5	U	5	U	10	U	25	U	5	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	1	U	2.5	U	1	U	1	U	10	U	5	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	5	U	5	U	5	U	5	U	1	UJ
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43												1	UJ	1	U						
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0									1	UJ	1	U						
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	U	1	U	1	U	2.5	U	1	UJ	1	U						
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																	1	U
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																	1	U
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0									1	UJ	1	U						
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0									1	UJ	1	U						
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	1	U	1	U	1	U	5	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0									3	UJ	3	U	2	U	15	U	3	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	2.5	U	1	U	1	U	1	U	5	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	2.5	U	1	UJ	1	UJ	1	UJ	5	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	1	UJ	1	U	1	U	5	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	2.5	U	2	U	2	U	1	U	5	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	1	U	2.5	U	2	U	2	U	1	U	5	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															49	U	48	U
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
2-Chloronaphthalene	UG/L	0	J			0%	0	18																		10	U	10	U
2-Chlorophenol	UG/L	0	J			0%	0	18																		10	U	10	U

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-19		MW25-19		MW25-19		MW25-19		MW25-19		MW25-19		MW25-2		MW25-2	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20035		25LM20045		25LM20057		25LM20067		25LM20078		25LM20090		25LM20100		25LM20000	25LM20010
Sample Date												3/3/2008		4/28/2009		1/13/2010		8/4/2010		2/9/2011		2/28/2012		5/7/2013		4/12/2006	8/9/2006
QC Type												SA		SA		SA		SA		SA		SA		SA		SA	SA
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM
Sample Round												4		5		6		7		8		9		10		1	2
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total
Criteria										LOWEST-GW																	
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																		10	U	10	U
2-Methylphenol	UG/L	0	J			0%	0	18																		10	U	10	U
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															49	U	48	U
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															20	U	19	U
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															49	U	48	U
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															49	U	48	U
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																		10	U	10	U
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																		10	U	10	U
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																		10	U	10	U
4-Methylphenol	UG/L	0	J			0%	0	18																		10	U	10	U
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															49	U	48	U
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															49	U	48	U
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																		10	U	10	U
Acetophenone	UG/L	0	J			0%	0	18																		10	U	10	U
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0															10	U	10	U
Benzaldehyde	UG/L	0	J			0%	0	18																		49	U	48	U
Benzo(a)anthracene	UG/L	0	J			0%	0	18																		10	U	10	U
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0															10	U	10	U
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																		10	U	10	U
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1															10	U	10	U
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																		10	U	10	U
Caprolactam	UG/L	0	J			0%	0	18																		10	U	10	U
Carbazole	UG/L	0	J			0%	0	18																		10	U	10	U
Chrysene	UG/L	0	J			0%	0	18																		10	U	10	U
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																		10	U	10	U
Dibenzofuran	UG/L	0	J			0%	0	18																		10	U	10	U
Diethyl phthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Dimethylphthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0															10	U	10	U
Di-n-octylphthalate	UG/L	0	J			0%	0	18																		10	U	10	U
Fluoranthene	UG/L	0	J			0%	0	18																		10	U	10	U
Fluorene	UG/L	0	J			0%	0	18																		10	U	10	UJ
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0															10	U	10	U
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0															10	U	10	U
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0															44	U	43	U
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0															10	U	10	U
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																		10	U	10	U
Isophorone	UG/L	0	J			0%	0	18																		10	U	10	U
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																		10	U	10	U
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0															10	U	10	U
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																		10	U	10	U
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																		10	U	10	U
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															49	U	48	U
Phenanthrene	UG/L	0	J			0%	0	18																		10	U	10	U
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0															10	U	10	U
Pyrene	UG/L	0	J			0%	0	18																		10	U	10	U
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	86%	102	117				515		20	J	204		1,310		152		53.8	J	100	U	2,510	J	606	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				4,520		3,500		4,350		4,140		3,340		3,980		3,600		4,730		5,690	J
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																					
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																					
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																					
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.004	U	0.002	U	0.01	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.001	U	0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.003	U	0.002	U	0.01	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.002	U	0.002	U	0.002	U	0.002	U	0.0012	J	0.00092	J	0.002	U	0.08	J	0.036	
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	2	U	2	U	2.3		3.6		1.7	J	0.72	J	5	U	6.5		2.2	J
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0			0.5	U														
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	24.3		30.1		31	J	36.7		31	J	22	J	29		39.6		33.2	

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-19		MW25-19		MW25-19		MW25-19		MW25-19		MW25-19		MW25-2		MW25-2	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20035		25LM20045		25LM20057		25LM20067		25LM20078		25LM20090		25LM20100		25LM20000		25LM20010	
Sample Date												3/3/2008		4/28/2009		1/13/2010		8/4/2010		2/9/2011		2/28/2012		5/7/2013		4/12/2006		8/9/2006	
QC Type												SA		SA		SA		SA		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												4		5		6		7		8		9		10		1		2	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0					0.113	J			0.064		0.094		0.13					
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29				0.194	J													0.05	U	0.05	U
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0	0.194				0.113	J	0.072	J										
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0			0.01	U	0.01	UJ			0.05	U	0.015	J	0.05	U				
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29				0.01	UJ													0.05	U	0.05	U
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																		
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0.01		0.02		0.02		0.18		0.03		0.016		0		0.01		0.15	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-16	2/10/2011	100%	3	3												0.008									
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3												0.5									
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48				0.478		0.379		0.445		0.662								0.551			
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																		6.29			
ORP	mV	259		MW25-19	1/13/2010	100%	48	48				161		134		259		63								-11			
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48				7.23		7.15		7.08		6.94								7.17			
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13										17.7								10.5			
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																		16.1			
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32														0.477		0.423					
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3												0.592									
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3												0.588									
ORP	mV	224		MW25-17	3/17/2015	100%	32	32														70		178					
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3												197									
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3												174									
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32														6.95		7.48					
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3												7.22									
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3												7.22									
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63				16.4		1.3		6.1		1.4						0.43				2.3	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2												1.2									
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1												5.7									
Field Measurement																													
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14																					
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																					
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																				0.562	
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																				0.3	
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																				-82	
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																				6.93	
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																				26.55	
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61				5.84		3.75		4.01		0.03				2.3		2.23					
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3												2.25									
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3												2.84									
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61				5.8		7.1		8				6.9		6.6		7.5					
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21														2.35							

Appendix D
SEAD 25 Historic Groundwater Analytical Results
2019 SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20014		25LM20020		25LM20031		25LM20042		25LM20048		25LM20053		25LM20054		25LM20064		25LM20071	
Sample Date												8/9/2006		6/6/2007		3/4/2008		4/29/2009		4/29/2009		1/11/2010		1/11/2010		8/3/2010		8/3/2010	
QC Type												DU		SA		SA		SA		DU		SA		DU		SA		DU	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												2		3		4		5		5		6		6		7		7	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U			1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	1.3		1.4		10	U	10	U	3.5	J	2.8	J
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U			1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0	1	U																
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	1	U			2	U	2	U	2	U	20	U	20	U	10	U	10	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U			1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	6	38																					
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0	1	U																
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U			1	U	1	U	1	U	10	U	10	U	5	U	5	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U			1	U	1	U	1	U	10	U	10	U	5	U	5	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				7.6	UJ	5	UJ	10	UJ	5	UJ	5	UJ	50	U	50	U	25	U	25	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	25%	41	125	NYS AWQS GA	1	24	2.2		16	J	0.51	J	17		20		10	U	4	J	62	J	57	J
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	2	UJ	1	UJ	1	U	1	U	10	U	10	U	5	U	5	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	UJ	1	U	1	U	1	U	10	UJ	10	U	5	U	5	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	1	UJ	1	UJ	2	U	0.51	J	0.67	J	10	U	10	U	5	U	5	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1.5	J	1	U	3.6		3.6		2	J	2.8	J	19	J	16	J
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U			1	U	6.7	J	4.8	J	10	U	10	U	2.1	J	2.2	J
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	U			1	UJ	1	U	1	U	10	U	10	U	5	U	5	U
Diisoproply Ether	UG/L	0				0%	0	38																					
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	0.98	J	12	J	0.67	J	11		11		10	U	10	U	26	J	25	J
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	0.45	J	1	U	1.8	J	1.3	J	10	U	10	U	5	U	5	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4			1.9	J	0.71	J	2	U	2	U	20	U	20	U	18		19	
Methyl Acetate	UG/L	0				0%	0	120				1	U			10	U	2	U	2	U	20	U	20	U	10	U	10	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	1	UJ	1	UJ	10	U	10	U	5	U	5	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	2	U	5	U	5	U	5	U	50	U	50	U	25	U	25	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	2	U	1	U	1	U	10	U	10	U	5	U	5	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U			1	U	3.9	J	2	J	10	U	10	U	5	U	5	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	UJ	2	UJ	0.59	J	9	J	4.3	J	50	U	50	U	25	U	25	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	1	UJ	5	U	5	U	5	U	50	U	50	U	25	U	25	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43						0.23	J														
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0																		
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3			1	UJ	1	U	1	U	1	U	10	U	10	U	6.3		6.4	
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0	1	U																
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0	1	U																
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0																		
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	UJ	1	U	1	UJ	1	U	10	U	10	U	5	U	5	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0																		
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1.6	U	1	U	1.2		1.3		10	U	10	U	6.1		6.5	
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	3	U																
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	5	U	5	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	0.51	J	1	U	1	U	1	U	10	U	10	U	1.6	J	1.6	J
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U			1	U	1	U	1	U	10	U	10	U	5	U	5	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	UJ	1	U	1	U	1	U	10	U	10	U	2.8	J	2.4	J
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U																
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U																
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U																
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U																
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U																
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	49	U																
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U																
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U																
2-Chloronaphthalene	UG/L	0	J			0%	0	18				10	U																
2-Chlorophenol	UG/L	0	J			0%	0	18				10	U																

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20014		25LM20020		25LM20031		25LM20042		25LM20048		25LM20053		25LM20054		25LM20064	25LM20071	
Sample Date												8/9/2006		6/6/2007		3/4/2008		4/29/2009		4/29/2009		1/11/2010		1/11/2010		8/3/2010	8/3/2010	
QC Type												DU		SA		SA		SA		DU		SA		DU		SA	DU	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM	
Sample Round												2		3		4		5		5		6		6		7	7	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total	
Criteria										LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18				10	U															
2-Methylphenol	UG/L	0	J			0%	0	18				10	U															
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	49	U															
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U															
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	20	U															
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	49	U															
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	49	U															
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18				10	U															
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18				10	U															
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U															
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18				10	U															
4-Methylphenol	UG/L	0	J			0%	0	18				10	U															
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	49	U															
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	49	U															
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18				10	U															
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18				10	U															
Acetophenone	UG/L	0	J			0%	0	18				10	U															
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18				10	U															
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0	10	U															
Benzaldehyde	UG/L	0	J			0%	0	18				49	U															
Benzo(a)anthracene	UG/L	0	J			0%	0	18				10	U															
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0	10	U															
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18				10	U															
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18				10	U															
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18				10	U															
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U															
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U															
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U															
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1	10	U															
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18				10	U															
Caprolactam	UG/L	0	J			0%	0	18				10	U															
Carbazole	UG/L	0	J			0%	0	18				10	U															
Chrysene	UG/L	0	J			0%	0	18				10	U															
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18				10	U															
Dibenzofuran	UG/L	0	J			0%	0	18				10	U															
Diethyl phthalate	UG/L	0	J			0%	0	18				10	U															
Dimethylphthalate	UG/L	0	J			0%	0	18				10	U															
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0	10	U															
Di-n-octylphthalate	UG/L	0	J			0%	0	18				10	U															
Fluoranthene	UG/L	0	J			0%	0	18				10	U															
Fluorene	UG/L	0	J			0%	0	18				10	UJ															
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0	10	U															
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0	10	U															
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0	44	U															
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U															
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18				10	U															
Isophorone	UG/L	0	J			0%	0	18				10	U															
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18				10	U															
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0	10	U															
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18				10	U															
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18				10	U															
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	49	U															
Phenanthrene	UG/L	0	J			0%	0	18				10	U															
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U															
Pyrene	UG/L	0	J			0%	0	18				10	U															
Inorganics																												
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				727		2,600	J	711		14,400		15,700		2,900		2,410		1,660		
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				5,510	J	6,000	J	3,460		7,100		7,100		7,880		7,720		10,300		
Wet Chemistry - MEE																												
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5						0.24														
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5						4.2														
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5						170														
Wet Chemistry - MEE																												
Ethane	MG/L	0				0%	0	117				0.01	U			0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Ethane	UG/L	0				0%	0	0																				
Ethene	MG/L	0				0%	0	117				0.01	U			0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Ethene	UG/L	0				0%	0	0																				
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.035				0.0032	J	0.068		0.064		0.02		0.022		0.12		0.13	
Methane	UG/L	0				0%	0	0																				
Wet Chemistry - EPA 300.0																												
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	2.2	J			2	U	2.2		2.2		2	U	2.8		3		2.8	
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0							0.5	U	0.5	U								
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	31				31.1		75.8		82.6		64.4	J	64.8	J	40.3		45.3	

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Area													SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID													MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		
Matrix													GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID													25LM20014		25LM20020		25LM20031		25LM20042		25LM20048		25LM20053		25LM20054		25LM20064		25LM20071	
Sample Date													8/9/2006		6/6/2007		3/4/2008		4/29/2009		4/29/2009		1/11/2010		1/11/2010		8/3/2010		8/3/2010	
QC Type													DU		SA		SA		SA		DU		SA		DU		SA		DU	
Study ID													LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round													2		3		4		5		5		6		6		7		7	
Filtered													Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above		Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																														
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0												0.199	J	0.05	UJ				
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29					0.05	U			0.305	J												
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0						0.305						0.199	J	0.05	UJ	0.05	UJ	0.05	UJ
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0									0.05	U	0.05	U	0.01	UJ	0.01	UJ				
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29					0.05	U			0.01	UJ												
Wet Chemistry - Nitrite/N																														
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0				4														
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0				0.5	J														
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0				0.5															
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0				22															
Field Measurement																														
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81					0.15				0.01	U	0.04		0.04		0.16		0.16					
Field Measurement																														
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																						
Field Measurement																														
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																						
Field Measurement																														
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48							0.454		0.64		0.702		0.702		0.573		0.573		1.09		1.09	
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																						
ORP	mV	259		MW25-19	1/13/2010	100%	48	48							-92		-60		-115		-115		-151		-151		-230		-230	
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48							7.11		7.15		6.84		6.84		7.25		7.25		6.79		6.79	
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13							12.4												21.2		21.2	
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6							11															
Field Measurement																														
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32																						
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																						
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																						
ORP	mV	224		MW25-17	3/17/2015	100%	32	32																						
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																						
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																						
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32																						
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																						
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																						
Field Measurement																														
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63					2.3				2.78		0.9		0.9		1.06		1.06		3.4		3.4	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																						
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																						
Field Measurement																														
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14							0.07															
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																						
Field Measurement																														
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10					0.562																	
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10					0.3																	
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10					-82																	
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10					6.93																	
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10					26.55																	
Field Measurement																														
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61									1.35		0.11		0.11		0.41		0.41		0.02		0.02	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																						
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																						
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61									3.2		8.1		8.1		6.3		6.3					
Field Measurement - Geo Parameters																														
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21																						

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20079		25LM20080		25LM20091		25LM20101		25LM20102		25LM20109		25LM20113		25LM20119		25LM20120	
Sample Date												2/8/2011		2/8/2011		3/1/2012		5/8/2013		5/8/2013		6/18/2014		3/18/2015		3/17/2016		3/17/2016	
QC Type												SA		DU		SA		SA		DU		SA		SA		SA		DU	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												8		8		9		10		10		11		12		13		13	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1.5	J	1.4	J	1	U	1.2		1.4		1.8		1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	UJ	1	UJ	1	U	1	UJ	1	UJ	1	UJ	5	U	5	U	5	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0	0.4	J	0.45	J	1	U												
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	2	U	2	U	2	U	1	U	1	U	1	U	5	U	5	U	5	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	UJ	1	UJ	1	U	0.32	J	1	U	0.44	J	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38				15	J	11	J	0.76	J												
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0	1	UJ	1	UJ	1	U												
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				9.5		8.6		5	U	11	J	8.7	J	6.9	J	10	U	10	U	10	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	14	J	12	J	0.99	J	19		20		24		0.64	J	1		1.1	
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	UJ	1	U	1	UJ	1	UJ	1	U	1	U	1	UJ	1	UJ
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	0.61	J	0.56	J	1	U	2	U	2	U	2	U	2	U	2	U	2	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	UJ	1	U	1	UJ	1	UJ	1	U	1	U	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	UJ	1	U	1	UJ	1	UJ	1	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	2	U	2	U	2	U	5	UJ	5	UJ	5	U	5	U	5	U	5	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	0.32	J	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	15	J	11	J	0.76	J	2.8		2.9		3.5		1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1.9	J	1.8	J	1	U	1.7		1.8		3		1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0							1	U	1	U	1	U	1	U	1	U	1	U
Diisoproply Ether	UG/L	0				0%	0	38				1	U	1	U	1	U												
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	6.1	J	6.5	J	0.47	J	10		11		14		1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	0.49	J	0.4	J	1	U	1		1.1		1.2		1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	6%	7	79	NYS AWQS GA	5	4	6.5	J	5.1	J	2	U												
Methyl Acetate	UG/L	0				0%	0	120				1	U	1	U	1	U	1	UJ	1	UJ	1	U	5	U	5	U	5	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	2	U	2	U	2	UJ	5	U	5	U	5	U	5	U	5	UJ	5	UJ
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	5	U	1.9	J	10	U	10	U	10	U	10	U	10	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	2	U	2	U	2	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				0.52	J	0.46	J	1	U	1	U	1	U	0.41	J	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				3.2	J	2.3	J	5	U	3.8	J	2.9	J	10	U	10	U	10	U	10	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	5	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	1	U	10	U	10	U	10	U	10	U	10	U	10	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43				1	UJ	1	UJ	1	U												
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0	1	UJ	1	UJ	1	U												
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	5.6	J	4.3	J	1	U												
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0	1	UJ	1	UJ	1	U												
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0	1	UJ	1	UJ	1	U												
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	7.4	J	5.4	J	1	U	0.91	J	0.87	J	2		1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	12	J	9.4	J	3	U	1	J	1	J	2.2		1	U	1	U	1	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	2	J	1.8	J	0.45	J	1.7		1.7		0.88	J	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	2	U	2	U	2	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	0.79	J	2	U	2	U	0.66	J	0.67	J	1.3		1	U	1	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2-Chloronaphthalene	UG/L	0	J			0%	0	18																					
2-Chlorophenol	UG/L	0	J			0%	0	18																					

Appendix D
SEAD 25 Historic Groundwater Analytical Results
2019 SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20079		25LM20080		25LM20091		25LM20101		25LM20102		25LM20109		25LM20113		25LM20119	25LM20120	
Sample Date												2/8/2011		2/8/2011		3/1/2012		5/8/2013		5/8/2013		6/18/2014		3/18/2015		3/17/2016	3/17/2016	
QC Type												SA		DU		SA		SA		DU		SA		SA		SA	DU	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM	
Sample Round												8		8		9		10		10		11		12		13	13	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total	
Criteria											LOWEST-GW																	
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																				
2-Methylphenol	UG/L	0	J			0%	0	18																				
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																				
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																				
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																				
4-Methylphenol	UG/L	0	J			0%	0	18																				
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																				
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																				
Acetophenone	UG/L	0	J			0%	0	18																				
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																				
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0																	
Benzaldehyde	UG/L	0	J			0%	0	18																				
Benzo(a)anthracene	UG/L	0	J			0%	0	18																				
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0																	
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																				
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																				
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																				
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1																	
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																				
Caprolactam	UG/L	0	J			0%	0	18																				
Carbazole	UG/L	0	J			0%	0	18																				
Chrysene	UG/L	0	J			0%	0	18																				
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																				
Dibenzofuran	UG/L	0	J			0%	0	18																				
Diethyl phthalate	UG/L	0	J			0%	0	18																				
Dimethylphthalate	UG/L	0	J			0%	0	18																				
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0																	
Di-n-octylphthalate	UG/L	0	J			0%	0	18																				
Fluoranthene	UG/L	0	J			0%	0	18																				
Fluorene	UG/L	0	J			0%	0	18																				
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0																	
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0																	
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0																	
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																	
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																				
Isophorone	UG/L	0	J			0%	0	18																				
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																				
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0																	
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																				
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																				
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Phenanthrene	UG/L	0	J			0%	0	18																				
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																	
Pyrene	UG/L	0	J			0%	0	18																				
Inorganics																												
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				13,100				3,760	J	6,500	J	11,000	J	9,900		340		350	340	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				10,200				9,320	J	16,000	J	10,000	J	9,100		2,500		3,500	3,600	
Wet Chemistry - MEE																												
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																				
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																				
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																				
Wet Chemistry - MEE																												
Ethene	MG/L	0				0%	0	117				0.01	U	0.01	U	0.01	U	0.004	U	0.004	U	0.0011	U	0.0011	U	0.0011	0.0011	U
Ethane	UG/L	0				0%	0	0																				
Ethene	MG/L	0				0%	0	117				0.01	U	0.01	U	0.01	U	0.003	U	0.003	U	0.001	U	0.001	U	0.001	0.001	U
Ethene	UG/L	0				0%	0	0																				
Methane	MG/L	0.13		MW25-2	6/3/2010	57%	68	117				0.032		0.059		0.031	J	0.022		0.025		0.00032	J	0.0042		0.0046	0.0041	
Methane	UG/L	0				0%	0	0																				
Wet Chemistry - EPA 300.0																												
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	5.8				0.9	J	1.8	J	1.7	J	1.9		0.74		0.73	0.74	
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0																	
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	45	J			52	J	160	J	150	J	10		24		36	36	

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-2	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20079		25LM20080		25LM20091		25LM20101		25LM20102		25LM20109		25LM20113		25LM20119	25LM20120	
Sample Date												2/8/2011		2/8/2011		3/1/2012		5/8/2013		5/8/2013		6/18/2014		3/18/2015		3/17/2016	3/17/2016	
QC Type												SA		DU		SA		SA		DU		SA		SA		SA	DU	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM	
Sample Round												8		8		9		10		10		11		12		13	13	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total	
Criteria										LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																												
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0	0.05	U			0.05	U	0.05	U	0.027	J	0.059		1.3		0.37	0.35	
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29																				
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0																	
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0	0.05	U			0.036	J	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.01	J
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29																				
Wet Chemistry - Nitrite/N																												
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																	
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																	
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																	
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																	
Field Measurement																												
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81								0.2		0.15		0.15				0		0.03	0.03	
Field Measurement																												
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																				
Field Measurement																												
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																				
Field Measurement																												
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48																				
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																				
ORP	mV	259		MW25-19	1/13/2010	100%	48	48																				
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48																				
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13																				
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																				
Field Measurement																												
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32				0.806		0.806		0.681		0.907		0.907				0.411		0.669	0.669	
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																				
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																				
ORP	mV	224		MW25-17	3/17/2015	100%	32	32				-148		-148		-106		-350		-350				44		-17	-17	
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																				
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																				
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32				6.98		6.98		6.79		7.2		7.2				7.57		7.74	7.74	
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																				
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																				
Field Measurement																												
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63				0.6		0.6				3.11		3.11								
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																				
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																				
Field Measurement																												
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14																				
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																				
Field Measurement																												
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																				
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																				
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																				
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																				
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																				
Field Measurement																												
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61				0.24		0.24		0.24		0.11		0.11				8.84		0.61	0.61	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																				
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																				
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61				5.08		5.08		5.3		8.4		8.4				3.3		5.1	5.1	
Field Measurement - Geo Parameters																												
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21								5.38								1.48		3.67	3.67	

Appendix D
SEAD 25 Historic Groundwater Analytical Results
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Area													SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID													MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-3		MW25-3		MW25-3		MW25-3	
Matrix													GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID													25LM20125		25LM20131		25LM20132		25LM20137		25LM20138		25LM20002		25LM20001		25LM20011		25LM20036	
Sample Date													3/15/2017		3/12/2018		3/12/2018		3/20/2019		3/20/2019		1/31/2006		1/31/2006		8/11/2006		3/4/2008	
QC Type													SA		SA		DU		SA		DU		SA		DU		SA		SA	
Study ID													LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round													14		15		15		16		16		1		1		2		4	
Filtered													Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above		Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																														
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0		0.36	J	0.5	U	0.5	U	0.74	J	0.5	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U					1	U		
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	2	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38					0.34	J	0.38	J	0.37	J	0.7	J	0.44	J								
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U					1	U		
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125					5	U	2.5	U	2.5	U	6.2	J	2.8	J	5	U	5	U	5.9	UJ	10	UJ
Benzene	UG/L	62	J	MW25-2	8/3/2010	26%	41	125	NYS AWQS GA	1	24		1.4		1.8	J+	1.8	J+	5.3	J	2.8	J	1	U	1	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	UJ
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0		1	U	0.32	J	0.31	J	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0		2	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0		0.34	J	0.38	J	0.37	J	0.7	J	0.44	J	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120					1	U	0.97	J	0.94	J	1.4	J	0.83	J	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0												1	UJ	1	UJ	1	U	1	UJ
Diisoproply Ether	UG/L	0				0%	0	38					1	U	0.5	U	0.5	U	0.5	U	0.5	U								
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4		2	U	1	U	1	U	1	U	1	U							1	U
Methyl Acetate	UG/L	0				0%	0	120					1	U	0.75	U	0.75	U	0.75	U	0.75	U	1	U	1	U	1	U	10	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0		2	U	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ	2	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125					5	U	2.5	U	2.5	U	2.5	U	2.5	U	5	U	5	U	5	U	5	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0		2	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120					1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125					5	U	2.5	U	2.5	U	2.5	U	2.5	U	5	U	5	U	5	U	5	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125					5	U	2.5	U	2.5	U	2.5	U	2.5	U	5	U	5	U	5	U	5	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125					1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0		5	U	2.5	U	2.5	U	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43					1	U	0.5	U	0.5	U	0.5	U	0.5	U								
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U								
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3		1	U	0.5	U	0.5	U	0.5	U	0.5	U							1	U
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																			
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																	1	U		
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U							1	U		
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U								
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0		3	U	1.5	U	1.5	U	1.5	U	1.5	U	3	U	3	U	3	U		
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0		1	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	1	U	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0		0.46	J	0.5	U	0.5	U	0.37	J	0.5	U	1	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0		2	U	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2		2	U	1	U	1	U	0.4	J	1	U	1	U	1	U	1	U	1	U
Semivolatile Organic Compounds																														
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0												10	U	9	U	10	U		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0												10	U	9	U	10	U		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0												10	U	9	U	10	U		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0												10	U	9	U	10	U		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0												10	U	9	U	10	U		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0												48	U	47	U	48	U		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0												10	U	9	U	10	U		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0												10	U	9	U	10	U		
2-Chloronaphthalene	UG/L	0	J			0%	0	18															10	U	9	U	10	U		
2-Chlorophenol	UG/L	0	J			0%	0	18															10	U	9	U	10	U		

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-3		MW25-3		MW25-3	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20125		25LM20131		25LM20132		25LM20137		25LM20138		25LM20002		25LM20001		25LM20011	25LM20036
Sample Date												3/15/2017		3/12/2018		3/12/2018		3/20/2019		3/20/2019		1/31/2006		1/31/2006		8/11/2006	3/4/2008
QC Type												SA		SA		DU		SA		DU		SA		DU		SA	SA
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM
Sample Round												14		15		15		16		16		1		1		2	4
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total
Criteria										LOWEST-GW																	
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
2-Methylphenol	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											48	U	47	U	48	U		
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											10	U	9	U	10	U		
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											19	U	19	U	19	U		
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											48	U	47	U	48	U		
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											48	U	47	U	48	U		
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											10	U	9	U	10	U		
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
4-Methylphenol	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											48	U	47	U	48	U		
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											48	UJ	47	UJ	48	U		
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18														10	U	9	U	10	U		
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18														10	U	9	U	10	U		
Acetophenone	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18														10	U	9	U	10	U		
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0											10	U	9	U	10	U		
Benzaldehyde	UG/L	0	J			0%	0	18														48	U	47	U	48	U		
Benzo(a)anthracene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0											10	U	9	U	10	U		
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18														10	U	9	U	10	U		
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											10	U	9	U	10	U		
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											10	U	9	U	10	U		
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											10	U	9	U	10	U		
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1											10	U	9	U	10	U		
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18														10	U	9	U	10	U		
Caprolactam	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Carbazole	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Chrysene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Dibenzofuran	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Diethyl phthalate	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Dimethylphthalate	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0											10	U	9	U	10	U		
Di-n-octylphthalate	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Fluoranthene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Fluorene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0											10	U	9	U	10	U		
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0											10	U	9	U	10	U		
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0											44	U	42	U	43	U		
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											10	U	9	U	10	U		
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Isophorone	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18														10	U	9	U	10	U		
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0											10	U	9	U	10	U		
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											48	U	47	U	48	U		
Phenanthrene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											10	U	9	U	10	U		
Pyrene	UG/L	0	J			0%	0	18														10	U	9	U	10	U		
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				3,940		2,650		2,720		1,420	J	2,090	J	76.4	J	86	J	3,820		107	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				6,160		5,270		5,240		6,920		7,050		12,000		12,300		11,300	J	5,540	
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																					
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																					
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																					
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.002	U	0.002	U	0.002	U	0.001	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.002	U	0.002	U	0.002	U	0.001	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.017		0.025		0.02		0.068	J	0.049	J	0.002	U	0.002	U	0.002	U	0.00034	J
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	1.8	J	1.3	J	1.3	J	1.3	J	1.4	J	2.3		2.1		1.5	J	2.66	
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0																		
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	140		52		48		44		39		39.8		39.9		44.9		100	

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-2		MW25-2		MW25-2		MW25-2		MW25-2		MW25-3		MW25-3		MW25-3	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20125		25LM20131		25LM20132		25LM20137		25LM20138		25LM20002		25LM20001		25LM20011	25LM20036
Sample Date												3/15/2017		3/12/2018		3/12/2018		3/20/2019		3/20/2019		1/31/2006		1/31/2006		8/11/2006	3/4/2008
QC Type												SA		SA		DU		SA		DU		SA		DU		SA	SA
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM
Sample Round												14		15		15		16		16		1		1		2	4
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total
Criteria										LOWEST-GW																	
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																												
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0	0.05	U	0.086	J	0.063	J	0.025	U	0.025	U							
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29														0.05	U	0.05	U	0.05	U	0.098	J
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0																	0.098	
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0	0.005	J	0.016	J	0.015	J	0.025	U	0.025	U								
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29														0.05	U	0.05	U	0.05	U	0.01	UJ
Wet Chemistry - Nitrite/N																												
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																	
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																	
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																	
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																	
Field Measurement																												
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81														0.04		0.04		0.03	0.01	
Field Measurement																												
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																				
Field Measurement																												
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																				
Field Measurement																												
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48														0.49		0.49			0.675	
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																				
ORP	mV	259		MW25-19	1/13/2010	100%	48	48														79		79			124	
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48														7.1		7.1			7.15	
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13																				
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																				
Field Measurement																												
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32																				
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																				
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																				
ORP	mV	224		MW25-17	3/17/2015	100%	32	32																				
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																				
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																				
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32																				
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																				
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																				
Field Measurement																												
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63														2.2		2.2		1.2	2	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																				
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																				
Field Measurement																												
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14														1.19		1.19				
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9														4.3		4.3				
Field Measurement																												
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																		0.686		
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																		3.6		
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																		77.9		
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																		7.02		
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																		21.54		
Field Measurement																												
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61																			0.87	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																				
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																				
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61																			3.5	
Field Measurement - Geo Parameters																												
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21																				

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20046		25LM20060		25LM20068		25LM20075		25LM20086		25LM20087		25LM20097		25LM20110	25LM20114	
Sample Date												4/29/2009		1/12/2010		8/4/2010		2/8/2011		2/29/2012		2/29/2012		5/9/2013		6/18/2014	3/18/2015	
QC Type												SA		SA		SA		SA		SA		DU		SA		SA	SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM	
Sample Round												5		6		7		8		9		9		10		11	12	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total	
Criteria										LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																												
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	5	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	UJ	1	UJ	5	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0							1	UJ	1	U	1	U						
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	2	U	2	U	10	U	2	U	2	U	2	U	1	U	1	U	5	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	36										2	UJ	2	UJ	2	UJ						
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0							1	UJ	1	U	1	U						
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	U	5	U	25	U	5	U	5	U	5	U	25	U	25	U	10	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1.7		1	U	5	U	1	UJ	0.68	J	0.68	J	0.82	J	1.8		1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	UJ	1	U	1	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	5	U	1	U	1	U	1	U	2	U	2	U	2	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	UJ	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	UJ	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	1	U	1	U	5	U	2	U	2	U	2	U	5	UJ	5	U	5	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	5	U	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	U	1	U	5	U							1	U	1	U	1	U
Diisoproply Ether	UG/L	0				0%	0	38										1	U	1	U	1	U						
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1		1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	0.39	J	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4	2	U	2	U	10	U	2	UJ	2	U	2	U						
Methyl Acetate	UG/L	0				0%	0	120				2	U	2	U	10	U	1	U	1	U	1	U	1	UJ	1	U	5	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	5	U	2	U	2	UJ	2	UJ	5	U	5	U	5	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	25	U	5	U	5	U	5	U	10	U	10	U	10	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	5	U	2	U	2	U	2	U	1	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	5	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	U	5	U	25	U	5	U	5	U	5	U	10	U	10	U	10	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	25	U	5	U	5	U	5	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	5	U	1	U	1	U	1	U	10	U	10	U	10	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43										1	UJ	1	U	1	U						
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0							1	UJ	1	U	1	U						
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	U	1	U	5	U	1	UJ	1	U	1	U						
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0																		
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0																		
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0							1	UJ	1	U	1	U						
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	5	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	0.4	J	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0							3	UJ	3	U	3	U	2	U	2.3		1	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	5	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	5	U	1	UJ	1	UJ	1	UJ	1	U	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	5	U	2	U	2	U	2	U	1	U	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	5	U	2	U	2	U	2	U	1	U	1	U	1	U
Semivolatile Organic Compounds																												
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																		
2-Chloronaphthalene	UG/L	0	J			0%	0	18																					
2-Chlorophenol	UG/L	0	J			0%	0	18																					

Appendix D
SEAD 25 Historic Groundwater Analytical Results
2019 SEAD 25 Annual Long-Term Monitoring Report
Seneca Army Depot Activity

Area													SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID													MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		
Matrix													GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID													25LM20046		25LM20060		25LM20068		25LM20075		25LM20086		25LM20087		25LM20097		25LM20110		25LM20114		
Sample Date													4/29/2009		1/12/2010		8/4/2010		2/8/2011		2/29/2012		2/29/2012		5/9/2013		6/18/2014		3/18/2015		
QC Type													SA		SA		SA		SA		SA		DU		SA		SA		SA		
Study ID													LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		
Sample Round													5		6		7		8		9		9		10		11		12		
Filtered													Total		Total		Total		Total		Total		Total		Total		Total		Total		
Criteria											LOWEST-GW																				
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above		Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	
2-Methylnaphthalene	UG/L	0	J			0%	0	18																							
2-Methylphenol	UG/L	0	J			0%	0	18																							
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																				
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																				
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																							
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																							
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																							
4-Methylphenol	UG/L	0	J			0%	0	18																							
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																				
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																							
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																							
Acetophenone	UG/L	0	J			0%	0	18																							
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																							
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0																				
Benzaldehyde	UG/L	0	J			0%	0	18																							
Benzo(a)anthracene	UG/L	0	J			0%	0	18																							
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0																				
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																							
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																							
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																							
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																				
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1																				
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																							
Caprolactam	UG/L	0	J			0%	0	18																							
Carbazole	UG/L	0	J			0%	0	18																							
Chrysene	UG/L	0	J			0%	0	18																							
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																							
Dibenzofuran	UG/L	0	J			0%	0	18																							
Diethyl phthalate	UG/L	0	J			0%	0	18																							
Dimethylphthalate	UG/L	0	J			0%	0	18																							
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0																				
Di-n-octylphthalate	UG/L	0	J			0%	0	18																							
Fluoranthene	UG/L	0	J			0%	0	18																							
Fluorene	UG/L	0	J			0%	0	18																							
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0																				
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0																				
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0																				
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0																				
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																							
Isophorone	UG/L	0	J			0%	0	18																							
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																							
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0																				
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																							
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																							
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																				
Phenanthrene	UG/L	0	J			0%	0	18																							
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0																				
Pyrene	UG/L	0	J			0%	0	18																							
Inorganics																															
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117					1,570		702				463		458	J	530	J	2,200				100	U	
Sodium	UG/L	58,100		MW25-18	6/5/2010	100%	117	117					9,000		7,370				7,990		5,980		5,960		8,800				6,000		
Wet Chemistry - MEE																															
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																							
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																							
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																							
Wet Chemistry - MEE																															
Ethane	MG/L	0				0%	0	117					0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.01	U	0.0011	U	0.0011	U	0.0011	U	
Ethane	UG/L	0				0%	0	0																							
Ethene	MG/L	0				0%	0	117					0.001	U	0.001	U	0.001	U	0.01	U	0.01	U	0.01	U	0.001	U	0.001	U	0.001	U	
Ethene	UG/L	0				0%	0	0																							
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117					0.013		0.002	U	0.012		0.0015	J	0.018	J	0.018	J	0.00058	U	0.011		0.0017		
Methane	UG/L	0				0%	0	0																							
Wet Chemistry - EPA 300.0																															
Chloride	MG/L	97.9		MW25-18	6/5/2010	81%	90	112	NYS AWQS GA	250	0		3.3		2.8				3.2		1.5	J	1.4	J	5	U			1.1		
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0		0.5	U																	
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0		122		182	J			110	J	50	J	50	J	100				70		

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20046		25LM20060		25LM20068		25LM20075		25LM20086		25LM20087		25LM20097		25LM20110		25LM20114	
Sample Date												4/29/2009		1/12/2010		8/4/2010		2/8/2011		2/29/2012		2/29/2012		5/9/2013		6/18/2014		3/18/2015	
QC Type												SA		SA		SA		SA		SA		DU		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												5		6		7		8		9		9		10		11		12	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0			0.05	UJ			0.057		0.05	U	0.05	U	0.019	J			0.69	
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29																					
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0			0.05	UJ														
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0	0.01	U	0.01	UJ			0.05	U	0.022	J	0.023	J	0.05	U			0.05	U
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29																					
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																		
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0.42		0.04						0.46		0.46		0.03				0	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																					
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																					
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48				0.627		0.741		1.26													
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																					
ORP	mV	259		MW25-19	1/13/2010	100%	48	48				-102		-63		-124													
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48				7.03		6.51		6.84													
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13								20.6													
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																					
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32										0.851		0.766		0.766		0.808				0.686	
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																					
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																					
ORP	mV	224		MW25-17	3/17/2015	100%	32	32										-85		-141		-141		-79				189	
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																					
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																					
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32										6.99		6.94		6.94		6.99				7.29	
pH (post)	Std units	7.39		MW25-17	2/10/2011	100%	3	3																					
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63				0.35		3		2.37		3.31						1.5					
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																					
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																					
Field Measurement																													
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14																					
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																					
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																					
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																					
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																					
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																					
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																					
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61				0.19		1.78		0		0.37		0.1		0.1		0.25				4.06	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																					
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																					
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61				7.9		4.9				4.5		4.6		4.6		7.8				3.1	
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21												1.99		1.99						1.79	

Appendix D
SEAD 25 Historic Groundwater Analytical Results
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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-8		MW25-8		MW25-8		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20115		25LM20121		25LM20128		25LM20126		25LM20134		25LM20139		25LM20003		25LM20012		25LM20037	
Sample Date												3/18/2015		3/17/2016		3/14/2017		3/14/2017		3/12/2018		3/20/2019		1/31/2006		8/11/2006		3/4/2008	
QC Type												DU		SA		SA		DU		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												12		13		14		14		15		16		1		2		4	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria											LOWEST-GW																		
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																													
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	5	U	5	U	1	UJ	1	U	0.6	U	0.5	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0					1	U	1	U	0.27	J	0.5	U			1	U		
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	5	U	5	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	2	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38								2	U	2	U	1	U	1	U						
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0					1	U	1	U	0.5	U	0.5	U			1	U		
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	3	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				10	U	10	U	5	U	5	U	2.5	U	2.5	U	5	U	5	U	10	UJ
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	0.48	J	0.48	J	1	J+	0.5	U	1	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	UJ	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	UJ
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	2	U	2	U	1	U	1	U	0.3	J	0.5	U	1	U	1	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	5	U	5	U	2	U	2	U	1	U	1	U	1	U	1	U	2	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	1	U	1	U	0.59	J	0.5	U	1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	U	1	U									1	UJ	1	U	1	UJ
Diisoproply Ether	UG/L	0				0%	0	38								1	U	1	U	0.5	U	0.5	U						
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4					2	U	2	U	1	U	1	U					1	U
Methyl Acetate	UG/L	0				0%	0	120				5	U	5	U	1	U	1	U	0.75	U	0.75	U	1	U	1	U	10	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	5	U	5	UJ	2	U	2	U	1	U	1	U	1	U	1	UJ	2	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				10	U	10	U	5	U	5	U	2.5	U	2.5	U	5	U	5	U	5	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	2	U	1	U	1	U	1	U	1	U	2	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				10	U	10	U	5	U	5	U	2.5	U	2.5	U	5	U	5	U	5	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				10	U	10	U	5	U	5	U	2.5	U	2.5	U	5	U	5	U	5	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				10	U	10	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	5	U	5	U	5	U	5	U	2.5	U	2.5	U	1	U	1	U	1	U
Naphthalene	UG/L	0.23	J	MW25-2	6/8/2007	3%	1	43								1	U	1	U	0.5	U	0.5	U						
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0					1	U	1	U	0.5	U	0.5	U						
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3					1	U	1	U	0.5	U	0.5	U					1	U
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0															1	U		
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0															1	U		
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0					1	U	1	U	0.5	U	0.5	U						
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0					1	U	1	U	0.5	U	0.5	U						
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	1	U	1	U	3	U	3	U	1.5	U	1.5	U	3	U	3	U		
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	0.5	U	0.5	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	2	U	2	U	1	U	1	U	1	U	1	U	1	U
Semivolatile Organic Compounds																													
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	U	49	U		
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
2-Chloronaphthalene	UG/L	0	J			0%	0	18																9	U	10	U		
2-Chlorophenol	UG/L	0	J			0%	0	18																9	U	10	U		

Appendix D
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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-8		MW25-8		MW25-8	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20115		25LM20121		25LM20128		25LM20126		25LM20134		25LM20139		25LM20003		25LM20012	25LM20037
Sample Date												3/18/2015		3/17/2016		3/14/2017		3/14/2017		3/12/2018		3/20/2019		1/31/2006		8/11/2006	3/4/2008
QC Type												DU		SA		SA		DU		SA		SA		SA		SA	SA
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	LTM
Sample Round												12		13		14		14		15		16		1		2	4
Filtered												Total		Total		Total		Total		Total		Total		Total		Total	Total
Criteria										LOWEST-GW																	
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18																9	U	10	U		
2-Methylphenol	UG/L	0	J			0%	0	18																9	U	10	U		
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													47	U	49	U		
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													19	U	20	U		
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													47	U	49	U		
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	U	49	U		
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18																9	U	10	U		
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18																9	U	10	U		
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18																9	U	10	U		
4-Methylphenol	UG/L	0	J			0%	0	18																9	U	10	U		
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													47	U	49	U		
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	U	49	U		
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18																0.5	J	10	U		
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18																2	J	10	U		
Acetophenone	UG/L	0	J			0%	0	18																9	U	10	U		
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18																1	J	10	U		
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0													9	U	10	U		
Benzaldehyde	UG/L	0	J			0%	0	18																9	U	10	U		
Benzo(a)anthracene	UG/L	0	J			0%	0	18																47	U	49	U		
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0													9	U	10	U		
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18																9	U	10	U		
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18																0.6	J	10	U		
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18																9	U	10	U		
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													9	U	10	U		
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1													9	U	10	U		
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18																9	U	10	U		
Caprolactam	UG/L	0	J			0%	0	18																9	U	10	U		
Carbazole	UG/L	0	J			0%	0	18																9	U	10	U		
Chrysene	UG/L	0	J			0%	0	18																9	U	10	U		
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18																9	U	10	U		
Dibenzofuran	UG/L	0	J			0%	0	18																9	U	10	U		
Diethyl phthalate	UG/L	0	J			0%	0	18																9	U	10	U		
Dimethylphthalate	UG/L	0	J			0%	0	18																9	U	10	U		
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0													9	U	10	U		
Di-n-octylphthalate	UG/L	0	J			0%	0	18																9	U	10	U		
Fluoranthene	UG/L	0	J			0%	0	18																9	U	10	U		
Fluorene	UG/L	0	J			0%	0	18																9	U	10	U		
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0													9	U	10	U		
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0													9	U	10	U		
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0													9	U	10	U		
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0													42	U	44	U		
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18																9	U	10	U		
Isophorone	UG/L	0	J			0%	0	18																9	U	10	U		
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18																9	U	10	U		
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0													9	U	10	U		
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18																9	U	10	U		
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18																9	U	10	U		
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													47	U	49	U		
Phenanthrene	UG/L	0	J			0%	0	18																9	U	10	U		
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0													9	U	10	U		
Pyrene	UG/L	0	J			0%	0	18																9	U	10	U		
Inorganics																													
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				100	U	320		149		127		27	J	633		329	J	667		349	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				5,800		4,900		4,740		5,420		9,500		5,410		5,110		7,060	J	4,180	
Wet Chemistry - MEE																													
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5																					
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5																					
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5																					
Wet Chemistry - MEE																													
Ethane	MG/L	0				0%	0	117				0.0011	U	0.0011	U	0.01	U	0.01	U	0.005	U	0.005	U	0.002	U	0.002	U	0.001	U
Ethane	UG/L	0				0%	0	0																					
Ethene	MG/L	0				0%	0	117				0.001	U	0.001	U	0.01	U	0.01	U	0.005	U	0.005	U	0.002	U	0.002	U	0.001	U
Ethene	UG/L	0				0%	0	0																					
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.002		0.0063		0.0052	J	0.0047	J	0.023		0.011		0.002	U	0.002	U	0.00036	J
Methane	UG/L	0				0%	0	0																					
Wet Chemistry - EPA 300.0																													
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	1.1		0.8		0.93	J	0.95	J	0.86	J	0.62	J	1.4		0.73	J	2	U
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0																		
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	68		27		21	J	23		25		17		19.5		28.2		17.3	

Appendix D
SEAD 25 Historic Groundwater Analytical Results
2019 SEAD 25 Annual Long-Term Monitoring Report
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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		
Loc ID												MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-3		MW25-8		MW25-8		
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GR
Sample ID												25LM20115		25LM20121		25LM20128		25LM20126		25LM20134		25LM20139		25LM20003		25LM20012		25LM20037	
Sample Date												3/18/2015		3/17/2016		3/14/2017		3/14/2017		3/12/2018		3/20/2019		1/31/2006		8/11/2006		3/4/2008	
QC Type												DU		SA		SA		DU		SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM		LTM	
Sample Round												12		13		14		14		15		16		1		2		4	
Filtered												Total		Total		Total		Total		Total		Total		Total		Total		Total	
Criteria										LOWEST-GW																			
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																													
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0	0.69		0.028	J	0.122	J	0.089		0.025	U	0.025	U						
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29																0.05	U	0.13		0.607	J
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0																	0.607	
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0	0.05	U	0.05	U	0.05	U	0.05	U	0.01	J	0.025	U						
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29																0.05	U	0.05	U	0.01	UJ
Wet Chemistry - Nitrite/N																													
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0																		
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0																		
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0																		
Field Measurement																													
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0		0.1										0.04		0.09		0.03	
Field Measurement																													
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3																					
Field Measurement																													
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3																					
Field Measurement																													
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48																0.494				0.427	
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1																					
ORP	mV	259		MW25-19	1/13/2010	100%	48	48																-70				61	
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48																7.3				7.46	
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13																					
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6																					
Field Measurement																													
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32				0.686		0.689															
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3																					
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3																					
ORP	mV	224		MW25-17	3/17/2015	100%	32	32				189		-15															
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3																					
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3																					
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32				7.29		7.81															
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3																					
Field Measurement																													
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63																2.4		8.7		5.1	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2																					
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1																					
Field Measurement																													
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14																0.84					
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9																4.1					
Field Measurement																													
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10																		0.72			
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10																		2.92			
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10																		33.4			
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10																		6.97			
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10																		25.01			
Field Measurement																													
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61				4.06		0.95														2.21	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3																					
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3																					
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61				3.1		4.4														2.7	
Field Measurement - Geo Parameters																													
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21				1.79		2.49															

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-8		MW25-8		MW25-8		MW25-8	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
Sample ID												25LM20047		25LM20059		25LM20092		25LM20103	
Sample Date												4/29/2009		1/13/2010		2/29/2012		5/7/2013	
QC Type												SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM	
Sample Round												5		6		9		10	
Filtered												Total		Total		Total		Total	
Criteria										LOWEST-GW									
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																			
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	1	U	1	UJ
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	UJ	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0					1	U		
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	2	U	2	U	2	U	1	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38								2	UJ		
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0					1	U		
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	U	5	U	5	U	25	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	1	U	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	UJ
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	1	U	2	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	UJ
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	1	U	1	U	2	U	5	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	UJ	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	U	1	U			1	U
Diisoproply Ether	UG/L	0				0%	0	38								1	U		
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4	2	U	2	U	2	U		
Methyl Acetate	UG/L	0				0%	0	120				2	U	2	U	1	U	1	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	2	UJ	5	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	5	U	10	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				2.3	J	5	U	5	U	10	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	5	U	10	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	1	U	10	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	5	U	5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43								1	U		
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0					1	U		
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	U	1	U	1	U		
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0								
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0								
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0					1	U		
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0					1	U		
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0					3	U	2	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	UJ	1	UJ
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	2	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	2	U	1	U
Semivolatile Organic Compounds																			
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
2-Chloronaphthalene	UG/L	0	J			0%	0	18											
2-Chlorophenol	UG/L	0	J			0%	0	18											

Appendix D
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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-8		MW25-8		MW25-8		MW25-8	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
Sample ID												25LM20047		25LM20059		25LM20092		25LM20103	
Sample Date												4/29/2009		1/13/2010		2/29/2012		5/7/2013	
QC Type												SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM	
Sample Round												5		6		9		10	
Filtered												Total		Total		Total		Total	
Criteria											LOWEST-GW								
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2-Methylnaphthalene	UG/L	0	J			0%	0	18											
2-Methylphenol	UG/L	0	J			0%	0	18											
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
4,6-Dinitro-2-methylpheno	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18											
4-Chloro-3-methylpheno	UG/L	0	J			0%	0	18											
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18											
4-Methylphenol	UG/L	0	J			0%	0	18											
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18											
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18											
Acetophenone	UG/L	0	J			0%	0	18											
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18											
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0								
Benzaldehyde	UG/L	0	J			0%	0	18											
Benzo(a)anthracene	UG/L	0	J			0%	0	18											
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0								
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18											
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18											
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18											
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1								
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18											
Caprolactam	UG/L	0	J			0%	0	18											
Carbazole	UG/L	0	J			0%	0	18											
Chrysene	UG/L	0	J			0%	0	18											
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18											
Dibenzofuran	UG/L	0	J			0%	0	18											
Diethyl phthalate	UG/L	0	J			0%	0	18											
Dimethylphthalate	UG/L	0	J			0%	0	18											
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0								
Di-n-octylphthalate	UG/L	0	J			0%	0	18											
Fluoranthene	UG/L	0	J			0%	0	18											
Fluorene	UG/L	0	J			0%	0	18											
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0								
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0								
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0								
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0								
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18											
Isophorone	UG/L	0	J			0%	0	18											
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18											
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0								
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18											
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18											
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
Phenanthrene	UG/L	0	J			0%	0	18											
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0								
Pyrene	UG/L	0	J			0%	0	18											
Inorganics																			
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				620		408		411	J	4,200	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				6,000		9,740		6,650		8,100	
Wet Chemistry - MEE																			
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5											
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5											
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5											
Wet Chemistry - MEE																			
Ethane	MG/L	0				0%	0	117				0.001	U	0.001	U	0.01	U	0.004	U
Ethane	UG/L	0				0%	0	0											
Ethene	MG/L	0				0%	0	117				0.001	U	0.001	U	0.01	U	0.003	U
Ethene	UG/L	0				0%	0	0											
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.016		0.002	U	0.0047	J	0.0011	J
Methane	UG/L	0				0%	0	0											
Wet Chemistry - EPA 300.0																			
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	3.2		2	U	1.3	J	5	U
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0	0.5	U						
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	20.7		35.2	J	12	J	12	

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-8		MW25-8		MW25-8		MW25-8	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
Sample ID												25LM20047		25LM20059		25LM20092		25LM20103	
Sample Date												4/29/2009		1/13/2010		2/29/2012		5/7/2013	
QC Type												SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM	
Sample Round												5		6		9		10	
Filtered												Total		Total		Total		Total	
Criteria											LOWEST-GW								
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Num of Detects Above	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Wet Chemistry - Nitrite/N																			
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0			0.05	UJ	0.017	J	0.041	J
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29											
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0			0.05	UJ				
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0	0.016		0.01	UJ	0.022	J	0.05	U
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29											
Wet Chemistry - Nitrite/N																			
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0								
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0								
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0								
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0								
Field Measurement																			
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0.01		0.03		0.03		0.09	
Field Measurement																			
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3											
Field Measurement																			
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3											
Field Measurement																			
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48						0.342					
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1											
ORP	mV	259		MW25-19	1/13/2010	100%	48	48						230					
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48						7.36					
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13											
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6											
Field Measurement																			
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32								0.462		0.506	
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3											
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3											
ORP	mV	224		MW25-17	3/17/2015	100%	32	32								-133		-31	
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3											
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3											
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32								7.29		7.35	
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3											
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3											
Field Measurement																			
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63						2.2				1.74	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2											
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1											
Field Measurement																			
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14											
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9											
Field Measurement																			
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10											
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10											
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10											
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10											
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10											
Field Measurement																			
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61						2.67		0.16		0.08	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3											
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3											
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61						4.7		3.9		8.9	
Field Measurement - Geo Parameters																			
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21								0.8			

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20004		25LM20013		25LM20038		25LM20049		25LM20058	
Sample Date												1/31/2006		8/9/2006		3/4/2008		4/29/2009		1/12/2010	
QC Type												SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM	
Sample Round												1		2		4		5		6	
Filtered												Total		Total		Total		Total		Total	
Criteria										LOWEST-GW											
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																					
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	0.62	J	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1		1	U	1	U	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0			1	U						
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	1	U	1	U	2	U	2	U	2	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	0.49	J	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38													
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0			1	U						
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	U	63	UJ	10	UJ	5	U	5	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	33		0.58	J	2.3		0.46	J	1	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	UJ	1	U	1	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	1	U	1	U	1	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	1	U	1	UJ	2	U	1	U	1	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	2.8		1	U	1	U	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				8	J	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	UJ	1	U	1	UJ	1	U	1	U
Diisoproply Ether	UG/L	0				0%	0	38													
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	15		1	U	1	U	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	2.6		1	U	1	U	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4					0.43	J	2	U	2	U
Methyl Acetate	UG/L	0				0%	0	120				1	U	1	U	10	U	2	U	2	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	1	UJ	1	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	5	U	5	U	5	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1.9	J	1	U	1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	U	5	UJ	5	U	5	U	5	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	5	U	5	U	5	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	1	U	1	U	1	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	1	U	1	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43													
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0										
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3					1.5		1	U	1	U
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0			1	U						
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0			1	U						
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0										
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0										

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20004		25LM20013		25LM20038		25LM20049		25LM20058	
Sample Date												1/31/2006		8/9/2006		3/4/2008		4/29/2009		1/12/2010	
QC Type												SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM	
Sample Round												1		2		4		5		6	
Filtered												Total		Total		Total		Total		Total	
Criteria										LOWEST-GW											
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	14		1	U	0.39	J	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	62		3	U						
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	1	U	1	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	0.53	J	1	U	1	U	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	UJ	1	U	1	U	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	1	U	1	U	1	U
Semivolatile Organic Compounds																					
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U						
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U						
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U						
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U						
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U						
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U						
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U						
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U						
2-Chloronaphthalene	UG/L	0	J			0%	0	18				10	U	10	U						
2-Chlorophenol	UG/L	0	J			0%	0	18				10	U	10	U						
2-Methylnaphthalene	UG/L	0	J			0%	0	18				10	U	10	U						
2-Methylphenol	UG/L	0	J			0%	0	18				10	U	10	U						
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	48	U	48	U						
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U						
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	19	U	19	U						
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	48	U	48	U						
4,6-Dinitro-2-methylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U						
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18				10	U	10	U						
4-Chloro-3-methylphenol	UG/L	0	J			0%	0	18				10	U	10	U						
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U						
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18				10	U	10	U						
4-Methylphenol	UG/L	0	J			0%	0	18				10	U	10	U						
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	48	U	48	U						
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U						
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18				10	U	10	U						
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18				1	J	10	U						
Acetophenone	UG/L	0	J			0%	0	18				10	U	10	U						
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18				10	U	10	U						
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0	10	U	10	U						
Benzaldehyde	UG/L	0	J			0%	0	18				48	U	48	U						
Benzo(a)anthracene	UG/L	0	J			0%	0	18				10	U	10	U						
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0	10	U	10	U						
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18				10	U	10	U						
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18				10	U	10	U						
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18				10	U	10	U						
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U						
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U						
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U						
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1	10	U	10	U						
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18				10	U	10	U						
Caprolactam	UG/L	0	J			0%	0	18				10	U	10	U						
Carbazole	UG/L	0	J			0%	0	18				10	U	10	U						
Chrysene	UG/L	0	J			0%	0	18				10	U	10	U						
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18				10	U	10	U						
Dibenzofuran	UG/L	0	J			0%	0	18				10	U	10	U						

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20004		25LM20013		25LM20038		25LM20049		25LM20058	
Sample Date												1/31/2006		8/9/2006		3/4/2008		4/29/2009		1/12/2010	
QC Type												SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM	
Sample Round												1		2		4		5		6	
Filtered												Total		Total		Total		Total		Total	
Criteria										LOWEST-GW											
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Diethyl phthalate	UG/L	0	J			0%	0	18				10	U	10	U						
Dimethylphthalate	UG/L	0	J			0%	0	18				10	U	10	U						
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0	10	U	10	U						
Di-n-octylphthalate	UG/L	0	J			0%	0	18				10	U	10	U						
Fluoranthene	UG/L	0	J			0%	0	18				10	U	10	U						
Fluorene	UG/L	0	J			0%	0	18				10	U	10	UJ						
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0	10	U	10	U						
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0	10	U	10	U						
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0	43	U	43	U						
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0	10	U	10	U						
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18				10	U	10	U						
Isophorone	UG/L	0	J			0%	0	18				10	U	10	U						
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18				2	J	10	U						
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0	10	U	10	U						
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18				10	U	10	U						
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18				10	U	10	U						
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	48	U	48	U						
Phenanthrene	UG/L	0	J			0%	0	18				10	U	10	U						
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0	10	U	10	U						
Pyrene	UG/L	0	J			0%	0	18				10	U	10	U						
Inorganics																					
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				56.9	J	12	U	100	U	9,440		916	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				14,500		16,400	J	8,380		26,000		16,500	
Wet Chemistry - MEE																					
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5													
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5													
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5													
Wet Chemistry - MEE																					
Ethane	MG/L	0				0%	0	117				0.002	U	0.002	U	0.001	U	0.001	U	0.001	U
Ethane	UG/L	0				0%	0	0													
Ethene	MG/L	0				0%	0	117				0.002	U	0.002	U	0.001	U	0.001	U	0.001	U
Ethene	UG/L	0				0%	0	0													
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.029		0.002	U	0.0024	J	0.0035		0.002	U
Methane	UG/L	0				0%	0	0													
Wet Chemistry - EPA 300.0																					
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	1.1		0.99	J	2	U	2.7		2	U
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0							0.5	U		
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	21.8		25.3		24.8		39.7		35.3	J
Wet Chemistry - Nitrite/N																					
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0									0.05	UJ
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29				0.05	U	0.1		0.05	UJ				
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0					0.05	U			0.05	UJ
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0							0.01	U	0.01	UJ
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29				0.05	U	0.05	U	0.01	UJ				
Wet Chemistry - Nitrite/N																					
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0										
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0										
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0										
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0										
Field Measurement																					
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81				0.02		0.45		0.01	U	0.12		0.01	
Field Measurement																					
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3													
Field Measurement																					

Appendix D
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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20004		25LM20013		25LM20038		25LM20049		25LM20058	
Sample Date												1/31/2006		8/9/2006		3/4/2008		4/29/2009		1/12/2010	
QC Type												SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM	
Sample Round												1		2		4		5		6	
Filtered												Total		Total		Total		Total		Total	
Criteria										LOWEST-GW											
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3													
Field Measurement																					
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48				0.535				0.59				0.427	
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1													
ORP	mV	259		MW25-19	1/13/2010	100%	48	48				91				99				-72	
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48				7.15				7.33				6.73	
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13												3.62	
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6													
Field Measurement																					
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32													
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3													
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3													
ORP	mV	224		MW25-17	3/17/2015	100%	32	32													
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3													
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3													
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32													
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3													
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3													
Field Measurement																					
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63				2.49		3.38		1.3				2.8	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2													
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1													
Field Measurement																					
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14				5.33									
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9				4.8									
Field Measurement																					
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10						0.718							
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10						5.22							
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10						62.5							
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10						7.15							
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10						23.11							
Field Measurement																					
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61								2.02					
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3													
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3													
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61								3.3					
Field Measurement - Geo Parameters																					
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21													

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Area												SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20082		25LM20093		25LM20104	
Sample Date												2/9/2011		2/29/2012		5/7/2013	
QC Type												SA		SA		SA	
Study ID												LTM		LTM		LTM	
Sample Round												8		9		10	
Filtered												Total		Total		Total	
Criteria										LOWEST-GW							
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																	
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	UJ	1	U	1	UJ
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	UJ	1	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	UJ	1	U	1	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	UJ	1	U	1	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	1	UJ	1	U	1	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0	1	UJ	1	U		
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	2	U	2	U	1	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	UJ	1	U	1	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	UJ	1	U	1	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	UJ	1	U	1	U
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38				2	UJ	2	UJ		
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	UJ	1	U	1	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0	1	UJ	1	U		
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	UJ	1	U	1	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	UJ	1	U	1	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				5	U	5	U	11	J
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	0.74	J	0.4	J	0.34	J
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	U	1	UJ
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	U	1	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	1	U	1	U	2	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	UJ	1	U	1	UJ
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	UJ	1	U	1	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	UJ	1	U	1	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	2	U	2	U	5	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	UJ	1	U	1	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	UJ	1	U	1	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	UJ	1	UJ	1	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	UJ	1	U	1	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0					1	U
Diisoproply Ether	UG/L	0				0%	0	38				1	U	1	U		
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	UJ	1	U	1	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4	2	UJ	2	U		
Methyl Acetate	UG/L	0				0%	0	120				1	U	1	U	1	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	2	U	2	UJ	5	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				5	U	5	U	10	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	2	U	2	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				5	U	5	U	10	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				5	U	5	U	10	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				1	U	1	U	10	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	5	U	5	U	5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43				1	UJ	1	U		
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0	1	UJ	1	U		
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3	1	UJ	1	U		
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0						
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0						
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0	1	UJ	1	U		
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	UJ	1	U	1	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0	1	UJ	1	U		

Area												SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20082		25LM20093		25LM20104	
Sample Date												2/9/2011		2/29/2012		5/7/2013	
QC Type												SA		SA		SA	
Study ID												LTM		LTM		LTM	
Sample Round												8		9		10	
Filtered												Total		Total		Total	
Criteria										LOWEST-GW							
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	UJ	1	U	1	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	3	UJ	3	U	2	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	UJ	1	UJ	1	UJ
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1	UJ	1	U	1	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	2	U	2	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	2	U	2	U	1	U
Semivolatile Organic Compounds																	
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
2-Chloronaphthalene	UG/L	0	J			0%	0	18									
2-Chlorophenol	UG/L	0	J			0%	0	18									
2-Methylnaphthalene	UG/L	0	J			0%	0	18									
2-Methylphenol	UG/L	0	J			0%	0	18									
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
4,6-Dinitro-2-methylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18									
4-Chloro-3-methylphenol	UG/L	0	J			0%	0	18									
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18									
4-Methylphenol	UG/L	0	J			0%	0	18									
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18									
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18									
Acetophenone	UG/L	0	J			0%	0	18									
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18									
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0						
Benzaldehyde	UG/L	0	J			0%	0	18									
Benzo(a)anthracene	UG/L	0	J			0%	0	18									
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0						
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18									
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18									
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18									
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1						
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18									
Caprolactam	UG/L	0	J			0%	0	18									
Carbazole	UG/L	0	J			0%	0	18									
Chrysene	UG/L	0	J			0%	0	18									
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18									
Dibenzofuran	UG/L	0	J			0%	0	18									

Area												SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID												25LM20082		25LM20093		25LM20104	
Sample Date												2/9/2011		2/29/2012		5/7/2013	
QC Type												SA		SA		SA	
Study ID												LTM		LTM		LTM	
Sample Round												8		9		10	
Filtered												Total		Total		Total	
Criteria										LOWEST-GW							
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual
Diethyl phthalate	UG/L	0	J			0%	0	18									
Dimethylphthalate	UG/L	0	J			0%	0	18									
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0						
Di-n-octylphthalate	UG/L	0	J			0%	0	18									
Fluoranthene	UG/L	0	J			0%	0	18									
Fluorene	UG/L	0	J			0%	0	18									
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0						
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0						
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0						
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0						
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18									
Isophorone	UG/L	0	J			0%	0	18									
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18									
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0						
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18									
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18									
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
Phenanthrene	UG/L	0	J			0%	0	18									
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0						
Pyrene	UG/L	0	J			0%	0	18									
Inorganics																	
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117				3,580		2,080	J	3,000	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117				29,600		45,300		34,000	
Wet Chemistry - MEE																	
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5									
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5									
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5									
Wet Chemistry - MEE																	
Ethane	MG/L	0				0%	0	117				0.01	U	0.01	U	0.004	U
Ethane	UG/L	0				0%	0	0									
Ethene	MG/L	0				0%	0	117				0.01	U	0.01	U	0.003	U
Ethene	UG/L	0				0%	0	0									
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117				0.0054	J	0.004	J	0.002	U
Methane	UG/L	0				0%	0	0									
Wet Chemistry - EPA 300.0																	
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0	1.6	J	0.55	J	5	U
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0						
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0	32	J	26	J	28	
Wet Chemistry - Nitrite/N																	
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0	0.05	U	0.018	J	0.033	J
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29									
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0						
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0	0.05	U	0.022	J	0.05	U
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29									
Wet Chemistry - Nitrite/N																	
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0						
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0						
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0						
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0						
Field Measurement																	
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81								0.03	
Field Measurement																	
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3									
Field Measurement																	

Appendix D
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Area											SEAD-25		SEAD-25		SEAD-25	
Loc ID											MW25-9		MW25-9		MW25-9	
Matrix											GROUNDWATER		GROUNDWATER		GROUNDWATER	GR
Sample ID											25LM20082		25LM20093		25LM20104	
Sample Date											2/9/2011		2/29/2012		5/7/2013	
QC Type											SA		SA		SA	
Study ID											LTM		LTM		LTM	
Sample Round											8		9		10	
Filtered											Total		Total		Total	
Criteria									LOWEST-GW							
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3									
Field Measurement																	
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48									
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1									
ORP	mV	259		MW25-19	1/13/2010	100%	48	48									
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48									
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13									
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6									
Field Measurement																	
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32						0.555		0.502	
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3									
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3									
ORP	mV	224		MW25-17	3/17/2015	100%	32	32						-129		-90	
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3									
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3									
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32						7.41		7.5	
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3									
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3									
Field Measurement																	
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63								2.57	
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2									
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1									
Field Measurement																	
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14									
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9									
Field Measurement																	
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10									
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10									
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10									
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10									
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10									
Field Measurement																	
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61						1.77		0.16	
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3									
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3									
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61						4.1		9.1	
Field Measurement - Geo Parameters																	
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21						2.74			

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Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
Sample ID												25LM20116		25LM20122		25LM20127		25LM20133		25LM20140	
Sample Date												3/17/2015		3/17/2016		3/15/2017		3/12/2018		3/19/2019	
QC Type												SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM	
Sample Round												12		13		14		15		16	
Filtered												Total		Total		Total		Total		Total	
Criteria										LOWEST-GW											
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																					
1,1,1-Trichloroethane	UG/L	0.62	J	MW25-9	1/31/2006	1%	2	125	EPA MCL	200	0	1	U	1	U	1	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	1	U	0.5	U	0.5	U
1,1,2-Trichloroethane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	0.5	U	0.5	U
1,1-Dichloroethane	UG/L	3.5	J	MW25-2	8/3/2010	10%	12	125	NYS AWQS GA	5	0	1	U	1	U	1	U	0.5	U	0.5	U
1,1-Dichloroethene	UG/L	0	J			0%	0	125	EPA MCL	7	0	1	U	1	U	1	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	70	0	5	U	5	U	1	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	UG/L	0.45	J	MW25-2	2/8/2011	7%	3	48	NYS AWQS GA	5	0					1	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	UG/L	0	J			0%	0	120	EPA MCL	0.2	0	5	U	5	U	1	U	0.5	U	0.5	U
1,2-Dibromoethane	UG/L	0	J			0%	0	125	EPA MCL	0.05	0	1	U	1	U	1	U	0.5	U	0.5	U
1,2-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	600	0	1	U	1	U	1	U	0.5	U	0.5	U
1,2-Dichloroethane	UG/L	0.49	J	MW25-9	1/31/2006	2%	4	125	EPA MCL	5	0	1	U	1	U	1	U	0.5	U	0.27	J
1,2-Dichloroethene (total)	UG/L	15	J	MW25-2	2/8/2011	24%	8	38								2	U	1	U	1	U
1,2-Dichloropropane	UG/L	0	J			0%	0	125	EPA MCL	5	0	1	U	1	U	1	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	UG/L	0	J			0%	0	48	NYS AWQS GA	5	0					1	U	0.5	U	0.5	U
1,3-Dichlorobenzene	UG/L	0	J			0%	0	120	NYS AWQS GA	3	0	1	U	1	U	1	U	0.5	U	0.5	U
1,4-Dichlorobenzene	UG/L	0	J			0%	0	120	EPA MCL	75	0	1	U	1	U	1	U	0.5	U	0.5	U
Acetone	UG/L	11	J J	MW25-2 MW25-9	5/8/2013 5/7/2013	7%	9	125				10	U	10	U	5	U	2.5	U	2.5	U
Benzene	UG/L	62	J	MW25-2	8/3/2010	29%	41	125	NYS AWQS GA	1	24	1	U	1	U	0.31	J	0.51	J	0.5	U
Bromodichloromethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	0.5	U	0.5	U
Bromoform	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	UJ	1	U	0.5	U	0.5	U
Carbon disulfide	UG/L	0.61	J	MW25-2	2/8/2011	6%	8	125	NYS AWQS GA	60	0	2	U	2	U	1	U	0.32	J	0.5	U
Carbon tetrachloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	1	U	0.5	U	0.5	U
Chlorobenzene	UG/L	0	J			0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	0.5	U	0.5	U
Chlorodibromomethane	UG/L	0	J			0%	0	125	EPA MCL	80	0	1	U	1	U	1	U	0.5	U	0.5	U
Chloroethane	UG/L	0.67	J	MW25-2	4/29/2009	2%	2	125	NYS AWQS GA	5	0	5	U	5	U	2	U	1	U	1	U
Chloroform	UG/L	0.32	J	MW25-2	2/8/2011	1%	1	125	EPA MCL	80	0	1	U	1	U	1	U	0.5	U	0.5	U
Cis-1,2-Dichloroethene	UG/L	19	J	MW25-2	8/3/2010	17%	20	125	EPA MCL	70	0	1	U	1	U	1	U	0.5	U	0.5	U
Cis-1,3-Dichloropropene	UG/L	0	J			0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	0.5	U	0.5	U
Cyclohexane	UG/L	8.6		MW25-2	4/12/2006	14%	17	120				1	U	1	U	1	U	0.49	J	0.5	U
Dichlorodifluoromethane	UG/L	0				0%	0	82	NYS AWQS GA	5	0	1	UJ	1	U						
Diisoproply Ether	UG/L	0				0%	0	38								1	U	0.5	U	0.5	U
Ethyl benzene	UG/L	26	J	MW25-2	8/3/2010	14%	17	125	EPA MCL	700	0	1	U	1	U	1	U	0.5	U	0.5	U
Isopropylbenzene	UG/L	2.6		MW25-9	1/31/2006	8%	10	125	NYS AWQS GA	5	0	1	U	1	U	1	U	0.5	U	0.5	U
Meta/Para Xylene	UG/L	19		MW25-2	8/3/2010	8%	7	79	NYS AWQS GA	5	4					2	U	1	U	1	U
Methyl Acetate	UG/L	0				0%	0	120				5	U	5	U	1	U	0.75	U	0.75	U
Methyl bromide	UG/L	0				0%	0	125	NYS AWQS GA	5	0	5	UJ	5	UJ	2	U	1	U	1	U
Methyl butyl ketone	UG/L	1.9	J	MW25-2	5/8/2013	1%	1	125				10	U	10	U	5	U	2.5	U	2.5	U
Methyl chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	1	U	1	U	2	U	1	U	1	U
Methyl cyclohexane	UG/L	4.2	J	MW25-2	4/12/2006	6%	7	120				1	U	1	U	1	U	0.5	U	0.5	U
Methyl ethyl ketone	UG/L	9	J	MW25-2	4/29/2009	10%	11	125				10	U	10	U	5	U	2.5	U	2.5	U
Methyl isobutyl ketone	UG/L	0	J			0%	0	125				10	U	10	U	5	U	2.5	U	2.5	U
Methyl Tertbutyl Ether	UG/L	0	J			0%	0	125				10	U	10	U	1	U	0.5	U	0.5	U
Methylene chloride	UG/L	0	J			0%	0	125	NYS AWQS GA	5	0	5	U	5	U	5	U	2.5	U	2.5	U
Naphthalene	UG/L	0.23	J	MW25-2	6/6/2007	3%	1	43								1	U	0.5	U	0.5	U
n-Butylbenzene	UG/L	0	J			0%	0	38	NYS AWQS GA	5	0					1	U	0.5	U	0.5	U
Ortho Xylene	UG/L	6.4		MW25-2	8/3/2010	6%	5	79	NYS AWQS GA	5	3					1	U	0.5	U	0.5	U
p-Isopropyltoluene	UG/L	0				0%	0	10	NYS AWQS GA	5	0										
Propylbenzene	UG/L	0				0%	0	10	NYS AWQS GA	5	0										
sec-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0					1	U	0.5	U	0.5	U
Styrene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	0.5	U	0.5	U
tert-Butylbenzene	UG/L	0				0%	0	38	NYS AWQS GA	5	0					1	U	0.5	U	0.5	U

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
Sample ID												25LM20116		25LM20122		25LM20127		25LM20133		25LM20140	
Sample Date												3/17/2015		3/17/2016		3/15/2017		3/12/2018		3/19/2019	
QC Type												SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM	
Sample Round												12		13		14		15		16	
Filtered												Total		Total		Total		Total		Total	
Criteria											LOWEST-GW										
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Tetrachloroethene	UG/L	0				0%	0	125	NYS AWQS GA	5	0	1	U	1	UJ	1	U	0.5	U	0.5	U
Toluene	UG/L	14		MW25-9	1/31/2006	9%	12	125	EPA MCL	1,000	0	1	U	1	U	1	U	0.5	U	0.5	U
Total Xylenes	UG/L	62		MW25-9	1/31/2006	8%	7	84	EPA MCL	10,000	0	1	U	1	U	3	U	1.5	U	1.5	U
Trans-1,2-Dichloroethene	UG/L	0				0%	0	125	EPA MCL	100	0	1	U	1	U	1	U	0.5	U	0.5	U
Trans-1,3-Dichloropropene	UG/L	0				0%	0	125	NYS AWQS GA	0.4	0	1	U	1	U	1	U	0.5	U	0.5	U
Trichloroethene	UG/L	2	J	MW25-2	2/8/2011	10%	13	125	NYS AWQS GA	5	0	1.6		1	U	1	U	0.5	U	0.5	U
Trichlorofluoromethane	UG/L	0	J			0%	0	120	NYS AWQS GA	5	0	1	U	1	U	2	U	1	U	1	U
Vinyl chloride	UG/L	2.6	J	MW25-2	8/3/2010	6%	7	125	NYS AWQS GA	2	2	1	U	1	U	2	U	1	U	1	U
Semivolatile Organic Compounds																					
1,1'-Biphenyl	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
2,4,5-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
2,4,6-Trichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
2,4-Dichlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
2,4-Dimethylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
2,4-Dinitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
2,4-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
2,6-Dinitrotoluene	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
2-Chloronaphthalene	UG/L	0	J			0%	0	18													
2-Chlorophenol	UG/L	0	J			0%	0	18													
2-Methylnaphthalene	UG/L	0	J			0%	0	18													
2-Methylphenol	UG/L	0	J			0%	0	18													
2-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
2-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
3,3'-Dichlorobenzidine	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
3-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
4,6-Dinitro-2-methylphenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
4-Bromophenyl phenyl ether	UG/L	0	J			0%	0	18													
4-Chloro-3-methylphenol	UG/L	0	J			0%	0	18													
4-Chloroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
4-Chlorophenyl phenyl ether	UG/L	0	J			0%	0	18													
4-Methylphenol	UG/L	0	J			0%	0	18													
4-Nitroaniline	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
4-Nitrophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
Acenaphthene	UG/L	0.5	J	MW25-8	1/31/2006	6%	1	18													
Acenaphthylene	UG/L	2	J	MW25-8	1/31/2006	19%	4	18													
Acetophenone	UG/L	0	J			0%	0	18													
Anthracene	UG/L	1	J	MW25-8	1/31/2006	6%	1	18													
Atrazine	UG/L	0	J			0%	0	18	EPA MCL	3	0										
Benzaldehyde	UG/L	0	J			0%	0	18													
Benzo(a)anthracene	UG/L	0	J			0%	0	18													
Benzo(a)pyrene	UG/L	0	J			0%	0	18	EPA MCL	0.2	0										
Benzo(b)fluoranthene	UG/L	0	J			0%	0	18													
Benzo(ghi)perylene	UG/L	0.6	J	MW25-8	1/31/2006	6%	1	18													
Benzo(k)fluoranthene	UG/L	0	J			0%	0	18													
Bis(2-Chloroethoxy)methane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
Bis(2-Chloroethyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0										
Bis(2-Chloroisopropyl)ether	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0										
Bis(2-Ethylhexyl)phthalate	UG/L	11		MW25-18	8/14/2006	6%	1	18	EPA MCL	6	1										
Butylbenzylphthalate	UG/L	2	J	MW25-18	8/14/2006	6%	1	18													
Caprolactam	UG/L	0	J			0%	0	18													
Carbazole	UG/L	0	J			0%	0	18													
Chrysene	UG/L	0	J			0%	0	18													
Dibenz(a,h)anthracene	UG/L	0	J			0%	0	18													
Dibenzofuran	UG/L	0	J			0%	0	18													

Area													SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID													MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix													GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
Sample ID													25LM20116		25LM20122		25LM20127		25LM20133		25LM20140	
Sample Date													3/17/2015		3/17/2016		3/15/2017		3/12/2018		3/19/2019	
QC Type													SA		SA		SA		SA		SA	
Study ID													LTM		LTM		LTM		LTM		LTM	
Sample Round													12		13		14		15		16	
Filtered													Total		Total		Total		Total		Total	
Criteria											LOWEST-GW											
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1		Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Diethyl phthalate	UG/L	0	J			0%	0	18														
Dimethylphthalate	UG/L	0	J			0%	0	18														
Di-n-butylphthalate	UG/L	0	J			0%	0	18	NYS AWQS GA	50	0											
Di-n-octylphthalate	UG/L	0	J			0%	0	18														
Fluoranthene	UG/L	0	J			0%	0	18														
Fluorene	UG/L	0	J			0%	0	18														
Hexachlorobenzene	UG/L	0	J			0%	0	18	EPA MCL	1	0											
Hexachlorobutadiene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.5	0											
Hexachlorocyclopentadiene	UG/L	0	J			0%	0	18	EPA MCL	50	0											
Hexachloroethane	UG/L	0	J			0%	0	18	NYS AWQS GA	5	0											
Indeno(1,2,3-cd)pyrene	UG/L	0	J			0%	0	18														
Isophorone	UG/L	0	J			0%	0	18														
Naphthalene	UG/L	2	J	MW25-9	1/31/2006	0%	1	18														
Nitrobenzene	UG/L	0	J			0%	0	18	NYS AWQS GA	0.4	0											
N-Nitroso-di-n-propylamine	UG/L	0	J			0%	0	18														
N-Nitrosodiphenylamine	UG/L	0	J			0%	0	18														
Pentachlorophenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											
Phenanthrene	UG/L	0	J			0%	0	18														
Phenol	UG/L	0	J			0%	0	18	NYS AWQS GA	1	0											
Pyrene	UG/L	0	J			0%	0	18														
Inorganics																						
Iron	UG/L	15,700		MW25-2	4/29/2009	88%	102	117					92	J	20	J	124		37	J	623	
Sodium	UG/L	58,100		MW25-18	8/5/2010	100%	117	117					14,000		15,000		11,800		4,470		10,200	
Wet Chemistry - MEE																						
Ethane	UG/L	1.1		MW25-19	6/7/2007	100%	5	5														
Ethene	UG/L	4.6		MW25-19	6/7/2007	100%	5	5														
Methane	UG/L	170		MW25-2	6/6/2007	100%	5	5														
Wet Chemistry - MEE																						
Ethane	MG/L	0				0%	0	117					0.0011	U	0.0011	U	0.01	U	0.005	U	0.005	U
Ethane	UG/L	0				0%	0	0														
Ethene	MG/L	0				0%	0	117					0.001	U	0.001	U	0.01	U	0.005	U	0.005	U
Ethene	UG/L	0				0%	0	0														
Methane	MG/L	0.13		MW25-2	8/3/2010	57%	68	117					0.0008		0.00069		0.01	U	0.033		0.03	
Methane	UG/L	0				0%	0	0														
Wet Chemistry - EPA 300.0																						
Chloride	MG/L	97.9		MW25-18	8/5/2010	81%	90	112	NYS AWQS GA	250	0		2.3		0.44	J	0.97	J	0.73	J	0.8	J
Nitrate	MG/L	0				0%	0	9	NYS AWQS GA	10	0											
Sulfate	MG/L	182	J	MW25-3	1/12/2010	100%	112	112	NYS AWQS GA	250	0		25		21		29		26		14	
Wet Chemistry - Nitrite/N																						
Nitrate	MG/L	2.2	J	MW25-10	3/19/2019	75%	49	69	NYS AWQS GA	10	0		0.85		0.081		0.05	U	0.025	U	0.025	U
Nitrate Nitrogen	MG/L	1	J	MW25-17	3/4/2008	46%	13	29														
Nitrate/Nitrite Nitrogen	MG/L	1		MW25-17	3/4/2008	70%	16	25	NYS AWQS GA	10	0											
Nitrite	MG/L	0.036	J	MW25-2	3/1/2012	26%	21	78	NYS AWQS GA	1	0		0.013	J	0.05	U	0.05	U	0.008	J	0.025	U
Nitrite Nitrogen	MG/L	0.087		MW25-15	8/14/2006	4%	1	29														
Wet Chemistry - Nitrite/N																						
Chloride	MG/L	59		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0											
Nitrate	MG/L	6.4	J	MW25-17	6/7/2007	100%	5	5	NYS AWQS GA	10	0											
Nitrite	MG/L	0.73	J	MW25-17	6/7/2007	80%	4	5	NYS AWQS GA	1	0											
Sulfate	MG/L	31		MW25-18	6/6/2007	100%	5	5	NYS AWQS GA	250	0											
Field Measurement																						
Sulfide	MG/L	1.04		MW25-18	6/6/2007	89%	72	81					0.02		0.04							
Field Measurement																						
Nitrate Nitrogen	MG/L	0.5		MW25-18	2/10/2011	100%	3	3														
Field Measurement																						

Area												SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Loc ID												MW25-9		MW25-9		MW25-9		MW25-9		MW25-9	
Matrix												GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
Sample ID												25LM20116		25LM20122		25LM20127		25LM20133		25LM20140	
Sample Date												3/17/2015		3/17/2016		3/15/2017		3/12/2018		3/19/2019	
QC Type												SA		SA		SA		SA		SA	
Study ID												LTM		LTM		LTM		LTM		LTM	
Sample Round												12		13		14		15		16	
Filtered												Total		Total		Total		Total		Total	
Criteria										LOWEST-GW											
Parameter	Unit	Max Detected Value		Max Detected Loc ID	Sample Date	Frequency of Detects	Num of Detects	Num of Analyses	Source Criteria	Action Level	Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Nitrite Nitrogen	MG/L	0.5		MW25-19	2/9/2011	100%	3	3													
Field Measurement																					
Conductivity	S/m	1.26		MW25-3	8/4/2010	100%	48	48													
Dissolved Oxygen	MG/L	6.29		MW25-2	4/12/2006	100%	1	1													
ORP	mV	259		MW25-19	1/13/2010	100%	48	48													
pH	Std units	7.69		MW25-17	1/30/2006	100%	48	48													
Temperature	DEG C	21.2		MW25-2 MW25-2	8/3/2010 8/3/2010	100%	13	13													
Turbidity	NTU	17		MW25-19	6/7/2007	100%	6	6													
Field Measurement																					
Conductivity	S/m	0.907		MW25-2 MW25-2	5/8/2013 5/8/2013	100%	32	32				0.423		0.47							
Conductivity (post)	S/m	0.844		MW25-18	2/10/2011	100%	3	3													
Conductivity (pre)	S/m	0.83		MW25-18	2/10/2011	100%	3	3													
ORP	mV	224		MW25-17	3/17/2015	100%	32	32				192		199							
ORP (post)	mV	197		MW25-19	2/9/2011	100%	3	3													
ORP (pre)	mV	193		MW25-17	2/10/2011	100%	3	3													
pH	Std units	8.37		MW25-17	3/16/2016	100%	32	32				7.73		8.06							
pH (post)	Std units	7.38		MW25-17	2/10/2011	100%	3	3													
pH (pre)	Std units	7.38		MW25-17	2/10/2011	100%	3	3													
Field Measurement																					
Turbidity	NTU	195		MW25-10	8/9/2006	100%	63	63													
Turbidity (post)	NTU	7.6		MW25-18	2/10/2011	100%	2	2													
Turbidity (pre)	NTU	5.7		MW25-19	2/9/2011	100%	1	1													
Field Measurement																					
Dissolved Oxygen	MG/L	8.46		MW25-17	1/30/2006	100%	14	14													
Temperature	DEG C	7.2		MW25-18	1/30/2006	100%	9	9													
Field Measurement																					
Conductivity	S/m	0.858		MW25-18	8/14/2006	100%	10	10													
Dissolved Oxygen	MG/L	6.21		MW25-18	8/14/2006	100%	10	10													
ORP	mV	222.1		MW25-15	8/14/2006	100%	10	10													
pH	Std units	7.32		MW25-18	8/14/2006	100%	10	10													
Temperature	DEG C	26.55		MW25-2 MW25-2	8/9/2006 8/9/2006	100%	10	10													
Field Measurement																					
Dissolved Oxygen	MG/L	12.6		MW25-10	3/17/2015	100%	61	61				10.97		0.83							
Dissolved Oxygen (post)	MG/L	5.17		MW25-17	2/10/2011	100%	3	3													
Dissolved Oxygen (pre)	MG/L	5.36		MW25-17	2/10/2011	100%	3	3													
Temperature	DEG C	9.1		MW25-9	5/7/2013	100%	61	61				2.2		4.9							
Field Measurement - Geo Parameters																					
Turbidity	NTU	5.38		MW25-2	3/1/2012	100%	21	21				4.81		2.07							

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Number of analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.

3) NLE = no limit established.

4) ND = not detected in any background sample, no background concentration available.

5) **Bold** indicates chemical dectection

6) SS = Site Specific action level, see "Specific Chemical Class (or Parameter)" footnote for details.

7) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessery) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated datected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

8) Specific Chemical Classes (or Parameters) comments or notes regarding how data is displayed, compared to Action Levels, or represented in this table.

9) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria

Bold values represent results that are above either a NYS GA Standard or EPA MCL value. **####**

10) Criteria action level source document and web address.

The NYS GA Standard and EPA MCL values were obtained from The following links.

http://www.dec.ny.gov/regulations/2652.html

http://water.epa.gov/drink/contaminants/index.cfm#List

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APPENDIX E

Data Validation Sheets

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PROJECT NAME/NO.: USACE - Seneca Army Depot SEAD-25 LTM Round 16
LAB: Katahdin
SDG: SM2582, SM2645
FRACTION: TCL VOC (SW846 8260C)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 9

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	Region 2 Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times, Preservation, & Solids Percentage	Yes	Cooler temp < 10° Samples holding time requirement < 14 days	Coolers were received at 1.4-4.4°C on 3/20/19 and 3/21/19 by the laboratory. The samples were received in good condition based on the laboratory login report. The samples were analyzed within 14 days from sample collection.	No
System Monitoring Compounds	Yes	Recoveries within limits (70 - 130%) or laboratory established limits	All system monitoring compound recoveries were within the laboratory limits for all samples.	No
Matrix Spike/Matrix Spike Duplicates and Laboratory Control Sample Recoveries	No	MS/MSD: 1 per 20 project samples. Recoveries within lab limits for 70-130%) RPD < lab limit	Sample 25LM20137 was designated for MS/MSD analyses. All MS/MSD precision and accuracy results were within criteria with the exception of the high MSD accuracy results for 1,1-dichloroethene (142%R, QC limit 71-131%R), carbon disulfide (153%R, QC limit 64-133%R), and cyclohexane (132%R, QC limit 71-130%R). Validation qualification of the parent sample was not required. All LCS/LCSD recoveries were within lab QC limits with the exception of the high LCS recovery for cyclohexane (132%R, QC limit 71-130%R) associated with all samples except 25LM20141. Therefore, positive results for this compound were considered estimated and qualified "J" for the affected samples.	Yes
Blanks	No	Method blanks: 1 per 20 project samples. No TCL or TICs detected in MB, TB, or EB	The laboratory method blanks associated with the project samples contains 1,2,4-trichlorobenzene at concentrations of 0.39 J and 0.45 J µg/L. The equipment blank 25LM20114 did not contain target VOCs. The trip blanks 25LM00033 and 25LM00034 associated with the project samples contained methylene chloride at concentrations of 2 J µg/L. Validation qualification of these samples was not required.	No
GC/MS Instrument Performance Check	Yes	Performance check every 12 hours per instrument. Ion abundances normalized to m/z 95	Checks were performed every 12 hours and the ion abundance was normalized to m/z 95.	No
TCL Analytes	Yes	RRT within 0.06 RRT units of standard RRT in CV 4. Relative intensities of characteristic ions within ± 30% of reference MS	The major ions are present and the standard relative ion intensities generally agree within 20% for the primary quant ions for the compounds. All RTs within 0.06 RRT units of the standard RRT. No action was taken as the predominant ion intensities were generally consistent with the reference and calibration.	No
Tentatively Identified Compounds	N/A	No TCLs are listed as TIC ions in reference MS with relative intensity≥10% present in sample MS. TIC and "best match" standard relative ion intensities agree within ± 20%	TICs were not reported for this SDG.	NA
Reported Quantitation Limits	Yes	Quantitation limits adjusted to reflect sample dilutions and moisture	The lowest calibration standards were reported as reporting limits.	No
GC/MS Initial Calibration	Yes	%RSD ≤ 20% (40% poor performers). Average RRFs ≥ 0.050 (0.01 poor performers)	All initial calibrations associated with the project samples had %RSDs and mean RRFs within the criteria.	No
GC/MS Continuing Calibration	Yes	CCV performed for every 12 hours per instrument. %D ≤ 20% (40% poor performers). RRFs ≥ 0.05 (0.01 poor performers)	All continuing calibrations associated with the project samples had %Ds and RRFs within criteria.	No
Internal Standards	Yes	IS areas of samples & blank within (-50% to + 100%). RTs < 30 seconds.	Standard recovery area within the QC limits for all standards, and retention times were within 30 seconds of the standard for all samples that were used in this SDG.	No
Field Duplicate	No	All % RPD ≤ 30%?	Sample 25LM20138 was collected as the field duplicate sample of 25LM20137. All precision results were within criteria with the exception of acetone (76%RPD) and benzene (62%RPD). Therefore, results for these compounds were considered estimated and qualified "J" for the affected parent sample and field duplicate.	Yes

RT = Retention Time %D = Percent Deviation. %RPD = Relative Percent Difference. %RSD = Percent Relative Standard Deviation. RRF = Relative Response Factor,
TCL = Target Compound List TIC = Tentatively Identified Compound CCV = Continuing Calibration Verification

NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 16
SM2582, SM2645
Katahdin
General Chemistry (sulfate and chloride - Method 300.0; nitrate and nitrite - Method 353.2)
Water

	Did Analyses Meet all criteria as specified in the SOPS?	If no, specify analysis IDs which do not meet criteria	Comments/Qualifying Actions	Qualifiers Added?
mpleteness, Holding s & Preservation	YES		Coolers were received at 1.4-4.4°C on 3/20/19 and 3/21/19 by the laboratory. The samples were received in good condition based on the laboratory login report.	NO
Calibration	YES		All instrument calibrations were within specified limits.	NO
Blanks	YES		Initial calibration blanks, continuing calibration blanks, and laboratory blanks did not contain target anions. The equipment blank 25LM20114 did not containe target anions.	NO
ory Control Sample	YES		LCS/LCSD recoveries met the specified criteria.	NO
Duplicates	YES		Sample 25LM20138 was collected as the field duplicate of 25LM20137. All field duplicate precision results were less than 30%RPD. Sample 25LM20137 was designated for laboratory duplicate precision analysis. Laboratory duplicate precision was within criteria.	NO
Sample Analysis	NO	25LM20141	Sample 25LM20137 was designated for MS/MSD anlayses. MS/MSD precision and accuracy results were within lab QC limits with the exception of high MSD accuracy result for nitrate (112%R; QC limit 90-110%R). Validation qualification of the parent sample was not required. Sample 25LM20141 was also analyzed for MS analysis which yielded a low MS accuracy result for nitrate (84%R; QC limit 90-110%R). Therefore, the nitrate result for this parent sample was considered estimated and qualified "J".	YES

AME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 16
SM2582, SM2645
Metals (iron and sodium - Method 6010D)
Katahdin
Groundwater

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	If no, specify analysis IDs which do not meet criteria	Comments/Qualifying Actions	Qualifiers Added?
leteness, Holding Times & Preservation	Yes		The cooler temperature was 1.4-4.4°C upon receipt by the laboratory. All samples were received in good condition based on the laboratory login report. Holding time met criteria	No
Calibration	Yes		Calibrations available, taken every ten samples, and within recovery limits (90-110%) for metals Initial calibration R2 >0.99.	No
ethod blank, prep blank)	No		The ICB contained iron at a concentration of 6.332 J µg/L; the CCBs contain iron and sodium at concentrations ranging 7.064-8.126 J and 13.46-45.39 J µg/L, respectively; and the preparation blank associated with the project samples contained sodium at a concentration of 61 µg/L. Validation qualification of the samples was not required. The equipment blank 25LM20114 contained iron and sodium at concentrations of 9.9 J and 266 J µg/L, respectively. Validation qualification of the project samples was not required.	No
rence Check Sample	Yes		Met requirements (80-120%) for iron and sodium	No
CRQL Standard	Yes		CRQL Check Standards performed and within QC limit of 70-130%R.	No
tory Control Sample	Yes		LCS results within limits (i.e., 80-120%) for iron and sodium	No
Duplicates	No	25LM20137, 25LM20138	Sample 25LM20138 was the field duplicate sample of 25LM20137. All field duplicate precision results were less than 30%RPD except for iron (38%RPD). Therefore, iron results were considered estimated and qualified "J" for the affected parent sample and field duplicate. Sample 25LM20137 was designated for laboratory duplicate precision analysis. All laboratory duplicate precision results were less than 20%RPD	Yes
e Sample Analysis	Yes		Sample 25LM20137 was designated for MS/MSD analyses. All MS/MSD precision and MSD accuracy results were within criteria.	No
P Serial Dilution	Yes		Sample 25LM20137 was designated for serial dilution analysis. All serial dilution results were less than 10%D	No
Detection Limits	Yes		IDLs available used as reporting limits. IDLs of iron and sodium are less than CRDLs	No
CP Linear Range	Yes		All results within the ICP linear range	No

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PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 16
LABORATORY: Katahdin
SDG: SM2582, SM2645
MEDIA: Groundwater
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS? Yes/No	Meet Criteria?	Comments	Qualifiers Added? Yes/No
Data Package Completeness	All results forms and raw data, Cover Letter, and Case Narrative included? All samples in COC present? All notes in Case Narrative consistent with chemist's review of data package?	Yes		No
Sample Conditions, Preservations, and Solids Percentage	Cooler temperature between 2°C~6°C? Record sample preservation and problems noted for sample conditions (e.g., bubbles?)	Yes	All samples received within one day of sample collection at 1.4-4.4°C	No
Holding Times	Samples met holding time requirement (non-preserved aqueous - 7 days; preserved aqueous - 14 days; non-aqueous - 14 days)	Yes		No
Laboratory Control Sample (LCS)	LCS analyzed for every 20 project samples for corresponding matrix? LCS recoveries within laboratory limits (or 70~130% if not available)?	Yes		No
Matrix Spike/Matrix Spike Duplicates (MS/MSD)	Was one MS/MD or one MS/MSD performed for every 20 project samples? Were recoveries within laboratory limits (or 70~130% if not available)?	No	Sample 25LM20137 was designated for MS/MSD analyses. All MS/MSD precision and accuracy results were within criteria except for the low MS/MSD accuracy results for methane (56.8%R/71.8%R; QC limit 73-125%R). Therefore, the methane result was considered estimated and qualified "J" for the affected parent sample.	Yes
Blanks	1. Method blanks available for every 20 project samples? 2. Were trip blanks, rinsate blanks, and field blanks collected in accordance with QAPP (Table 16)? 3. No analytes should be detected in ICBs, CCBs, method blanks, trip blanks, or rinsate blanks. 4. Was chromatographic performance for laboratory blanks stable?	No	All laboratory blanks ND for MEE. The equipment blank 25LM20114 contained methane at a concentration of 0.0021 J mg/L. Validation qualification of the project samples was not required.	No
Sample Result Verification	Were results verified with instrument raw data?	Yes		No
Quantitation Limits	Were quantitation limits correctly calculated based on sample amount/volume and adjusted to reflect sample dilutions and, for soils, sample moisture?	Yes		No
GC/MS Initial Calibration	1. ICVs analyzed at appropriate frequency with recoveries 90-110%R? 2. Curves linear for FID and TCD detectors?	Yes		No
GC/MS Calibration Verification (CV)	1. Were CCV at the appropriate frequency with recoveries 90-110%R? 2. Were curves linear for the FID and TCD detectors?	Yes		No
Field Duplicate	1. Was field duplicates collected for every 20 samples? 2. Were % RPDs ≤ 50% (soil) or 30% (aqueous) or difference ≤ 2RL (aqueous) or 4RL (soil) when one or both results<5RL?	No	Sample 25LM20138 was collected as the field duplicate sample of 25LM20137. All field duplicate precision results were less than 30%RPD except for methane (32%RPD). Therefore, the methane results were considered estimated and qualified "J" for the affected parent and field duplicate.	Yes