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January 21, 2011

Mr. John Nohrstedt
U.S. Army Corps of Engineers
Engineering and Support Center, Huntsville
Attn: CEHNC-FS-IS
4820 University Square
Huntsville, Alabama 35816-1822

SUBJECT: Final Year 3 Long-Term Monitoring Report for the Fire Training and Demonstration Pad (SEAD-25) at Seneca Army Depot Activity; Contract DACA87-02-D-0005, Delivery Order 0036

Dear Mr. Nohrstedt:

Parsons Infrastructure & Technology Group Inc. (Parsons) is pleased to submit the Final Year 3 Long-Term Monitoring (LTM) Report for the Fire Training and Demonstration Pad (SEAD-25) at the Seneca Army Depot Activity (SEDA) in Romulus, New York. This work was performed in accordance with the Scope of Work for Delivery Order 0036 under Contract No. DACA87-02-D-0005. This Report provides a review of long-term groundwater monitoring conducted during April 2009 and January 2010, and provides recommendations for future long-term monitoring at SEAD-25. This document also provides a review of the effectiveness of the remedy implemented at the site in 2005.

Material provided with this cover letter includes a new CD that contains a complete electronic copy of the entire final report, a new three-ring binder cover and spine insert, and an interior cover page for the report. None of the other content of the previously issued Draft Final Year 3 SEAD-25 LTM Report has been changed due to new comments received from stakeholder parties. We ask that you use the new materials to replace the identified components (binder cover and spine, and interior cover page) of the prior submittal and add the CD copy of the report to your files as the final version of this report.

Parsons appreciates the opportunity to provide you with this Report. Should you have any questions, please do not hesitate to call me at (617) 449-1405 to discuss them.

Sincerely,

Todd M. Heino, P.E.
Vice President

Enclosures

cc: S. Absolom, SEDA
R. Battaglia, USACE, NY District
K. Hoddinott, USACHPPM

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January 21, 2011

Mr. Julio Vazquez
USEPA Region II
Superfund Federal Facilities Section
290 Broadway, 18th Floor
New York, NY 10007-1866

Mr. Kuldeep K. Gupta, P.E.
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation, Remedial Bureau A, Section C
625 Broadway
Albany, NY 12233-7015

Mr. Mark Sergott
Bureau of Environmental Exposure Investigation, Room 300
New York State Department of Health
547 River Street, Flanigan Square
Troy, NY 12180

SUBJECT: Final Year 3 Long-Term Monitoring Report for the Fire Training and Demonstration Pad (SEAD-25) at Seneca Army Depot Activity; EPA Site ID# NY0213820830 and NY Site ID# 8-50-006

Dear Mr. Vazquez/Mr. Gupta/Mr. Sergott:

Parsons Infrastructure & Technology Group Inc. (Parsons) is pleased to submit the Final Year 3 Long-Term Monitoring (LTM) Report for the Fire Training and Demonstration Pad (SEAD-25) at the Seneca Army Depot Activity (SEDA) in Romulus, New York (EPA Site ID# NY0213820830 and NY Site ID# 8-50-006). This Report provides a review of long-term groundwater monitoring conducted during April 2009 and January 2010, and provides recommendations for future long-term monitoring at SEAD-25. This document also provides a review of the effectiveness of the remedy implemented at the site in 2005.

Material provided with this cover letter includes a new CD that contains a complete electronic copy of the entire final report, a new three-ring binder cover and spine insert, and an interior cover page for the report. None of the other content of the previously issued Draft Final Year 3 SEAD-25 LTM Report has been changed due to new comments received from stakeholder parties. We ask that you use the materials provided to replace the identified components (binder cover and spine, and interior cover page) of the prior submittal and add the CD copy of the report to your files as the final version of this report.

Parsons appreciates the opportunity to provide you with this Report. Should you have any questions, please do not hesitate to call me at (617) 449-1405 to discuss them.

Sincerely,

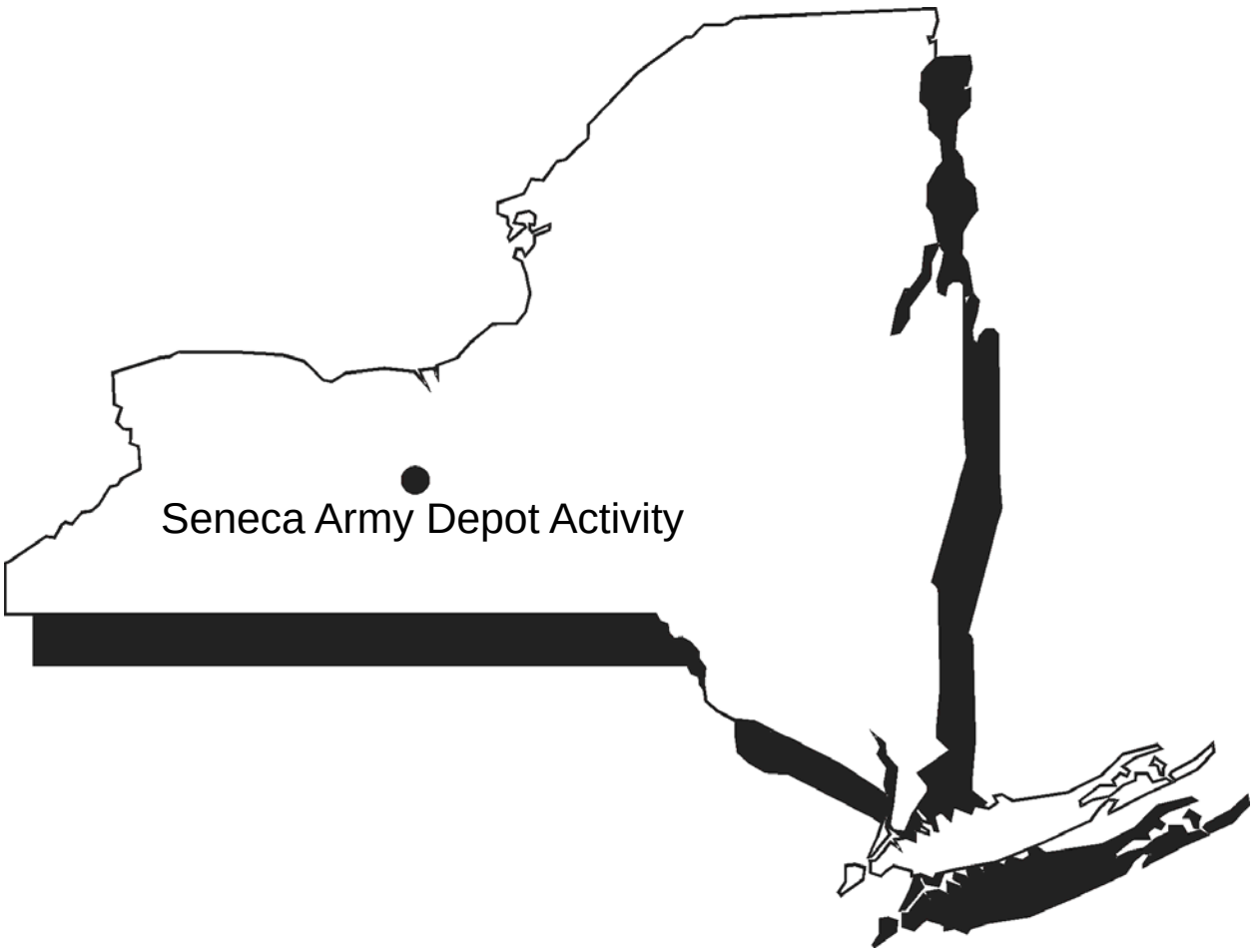
Todd Heino, P.E.
Vice President
Enclosures

cc: J. Nohrstedt, USACE, Huntsville
K. Hoddinott, USACHPPM
S. Absolom, SEDA
M. Heaney, TechLaw
R. Battaglia, USACE, NY

US Army, Engineering & Support Center
Huntsville, AL

00653

Seneca Army Depot Activity
Romulus, NY



FINAL

LONG-TERM MONITORING REPORT

THE FIRE TRAINING AND DEMONSTRATION PAD (SEAD-25)
SENECA ARMY DEPOT ACTIVITY

Contract No. DACA87-02-D-0005
Delivery Order No. 0036
EPA Site ID# NY0213820830
NY Site ID# 8-50-006

PARSONS
January 2011

FINAL

LONG-TERM MONITORING REPORT

FOR THE FIRE TRAINING AND DEMONSTRATION PAD (SEAD-25)

SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK

Prepared for:

U.S. ARMY, ENGINEERING & SUPPORT CENTER, HUNTSVILLE

4820 UNIVERSITY SQUARE

HUNTSVILLE, AL 35816

and

SENECA ARMY DEPOT ACTIVITY
ROMULUS, NEW YORK

Prepared by:

PARSONS
100 High Street
Boston, MA 02110

Contract Number DACA87-02-D-0005
Task Order No. 0036
EPA Site ID# NY0213820830
NY Site ID# 8-50-006

JANUARY 2011

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1.0 INTRODUCTION

This report provides a review of long-term groundwater monitoring (LTM) conducted at the Fire Training and Demonstration Pad (SEAD-25) at the Seneca Army Depot in Seneca County, New York between April 2009 and January 2010 and provides recommendations for future LTM at the area of concern (AOC). This document also provides a review of the effectiveness of the remedy implemented at SEAD-25 in 2005. This report is the third in a series that has been issued by Parsons Infrastructure & Technology Group Inc. (Parsons) on behalf of the U.S. Army, Engineering and Support Center, Huntsville and the Seneca Army Depot Activity (Army).

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 was completed in November 2005 for both areas of concern (AOCs), and the results of the actions were documented in the *Construction Completion Report for SEAD-25 and SEAD-26, Final* (CCR) (Parsons, 2006). The SEAD-25 remedial action involved the removal of 1,722 cubic yards (cy) of volatile organic compound (VOC) and semi-volatile organic compound (SVOC) impacted soil and sediment.

Long-term groundwater monitoring is being performed at SEAD-25 as part of the continuing post-closure monitoring and maintenance (PCMM) operations. Groundwater monitoring was initially required at both AOCs as a condition of the ROD since contaminant concentrations found in the groundwater at the AOCs prior to the remedial action exceeded applicable groundwater standards. Groundwater monitoring at SEAD-26 was terminated by the Army, with the approval of the United States Environmental Protection Agency (EPA) and the New York State Department of Environmental Conservation (NYSDEC), after the first year of sampling and analysis indicated that no contaminants of concern (COCs) were present in the groundwater at concentrations above defined cleanup goals. Semi-annual (i.e., twice each year) groundwater monitoring is continuing at SEAD-25.

The 2006Q1, Round 1 groundwater sampling events for SEAD-25 and SEAD-26 were completed between January 24, 2006 and January 31, 2006, with one sample being re-collected on April 12, 2006, and the results were reported in a memo submitted on May 31, 2006. The 2006Q3, Round 2 sampling event was performed between August 7, 2006 and August 14, 2006, and the results were reported in a memo submitted on December 7, 2006. The First LTM Report for SEAD-25 and SEAD-26[1] was submitted on February 2, 2007; as is indicated above, this report concluded that groundwater monitoring at SEAD-26 was no longer required, and future rounds of groundwater monitoring were to be limited to SEAD-25.

1 *Annual Report for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26),* Seneca Army Depot Activity, Parsons, February 2007

The 2007Q2, Round 3 of groundwater sampling at SEAD-25 was completed between June 6, 2007 and June 7, 2007, and the results were reported in a memo submitted on September 10, 2007. A 2008Q1, Round 4 groundwater sampling was completed between March 3, 2008 and March 4, 2008, and the results were reported in a memo submitted on April 18, 2008. The Second Long-term Monitoring Report for the Fire Training and Demonstration Pad (SEAD-25) was submitted on June 18, 2008.

The 2009Q2, Round 5 groundwater sampling was completed between April 28, 2009 and April 29, 2009, and the results were reported in a memo submitted on June 17, 2009. The 2010Q1, Round 6 groundwater sampling event was completed between January 11, 2010 and January 14, 2010. A separate event monitoring memo was not prepared to document the Round 6 event; these data are presented and summarized in this report. Data for the Round 5 and Round 6 sampling events are presented in this document, where they are also assessed along with historic data to show trends and changes over time.

As will be noted from the summary presented above, although semi-annual monitoring (twice each year) is the documented monitoring frequency desired at SEAD-25, adherence to a strict semi-annual schedule has not been achieved. The variation in time between consecutive rounds of groundwater monitoring at SEAD-25 results due to seasonal fluctuations in the local groundwater elevation at the site. SEAD-25 is located very near to a combined topographic and bedrock high within the east-central portion of the former Depot. As such, all recharge to the local groundwater comes from infiltration of storm-event water down through the surface into the underlying aquifer, which competes with surface water run-off into neighboring drainage ditches which conveys much of the water away into lower elevation areas within the Depot. All of the monitoring wells sampled as part of the continuing SEAD-25 long-term monitoring are located in the shallow, overburden aquifer where the groundwater contamination was originally identified during the historic CERCLA site investigations.

The shallow overburden found in the vicinity of SEAD-25 is very thin, consisting of a lens of till and fractured shale ranging from roughly 5 to 15 feet in thickness, which overlies competent shale bedrock. As such, due to the combination of run-off and low infiltration rates during extended dry or low water periods, the overburden water table thins to levels where samples frequently can not be collected from many of the wells, and most frequently from one or more of the three “source” wells (i.e., MW25-2, MW25-3, and MW25-9) which are located in closest proximity to the original burn pad. When such conditions are encountered in the field, event sampling is postponed until adequate water can be collected from the “source” wells to support essential analyses (i.e., volatile organic compounds).

2.0 SITE BACKGROUND

2.1 Site Description

SEDA 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 Depot during the close out of environmental investigations, studies, and remedial activities that are required at the former facility. As part of the Depot close out activities, more than 8,250 acres of land within the former Depot has been transferred to new owners for reuse.

SEDA 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 on 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 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. A more detailed site map of SEAD-25 is provided as **Figure 3**. 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, once in 1982 or 1983 and again in 1987.

2.2 Site Hydrology

The hydrogeologic setting for SEAD-25 was previously described in detail in Section 3.1.6 of the Final RI Report[2] dated May 1998. A brief summary of hydrogeologic conditions found in the RI Report is presented below for SEAD-25.

Groundwater contour mapping indicates that shallow groundwater flow is radial below the pad, with a stronger horizontal gradient to the south and west (**Figure 4**). The radial groundwater flow that exists below the pad at SEAD-25 is believed to be a local phenomenon that is present because of the influence of the anthropomorphic bedrock topographic mound located beneath the pad. Groundwater flow in the deeper, competent shale zone is to the west and southwest. The horizontal hydraulic gradients 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.

2 *Remedial Investigation Report for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area* (SEAD-26), Seneca Army Depot Activity, Parsons Engineering Science, Inc., May 1998

Hydraulic conductivities at SEAD-25 were found to range from 1.0 x 10^{-5} centimeters per second (cm/sec) to 3.4 x10^{-3} cm/sec, with an average of 6.1 x 10^{-4} cm/sec in shale/weathered bedrock. Both downward and upward vertical gradients were calculated for SEAD-25. The magnitude of the downward hydraulic gradients ranged from -0.04 ft/ft to -0.21 ft/ft. The magnitude of the upward hydraulic gradients ranged from 0.01 ft/ft to 0.07 ft/ft.

2.3 Soil and Groundwater Impacts

The primary COCs at SEAD-25 are aromatic VOCs, including benzene, toluene, ethyl benzene, and xylene (BTEX), in soil and groundwater, as well as lesser amounts of selected chlorinated compounds (i.e. 1,1,1-trichloroethane, 1,1-dichloroethane, 1,2-dichloroethene, trichloroethene, and chloroform) in groundwater.

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 the surface, which approximately corresponds to the top of competent bedrock (which was encountered at approximately 4.5 feet below ground surface during the removal action). The highest levels 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 below ground surface (bgs), respectively. Lower concentrations of BTEX were detected in the surface soil at SB25-3 (5,410 µg/Kg) and SB25-4 (2,900 µg/Kg), respectively.

Based on the RI results, the primary impact to the groundwater is from two overlapping VOC plumes that both originate at the southwestern portion of the Fire Training and Demonstration Pad. BTEX and chlorinated ethenes were not detected in the bedrock wells at SEAD-25. The primary plume observed during the RI was approximately 200 feet long and was composed of aromatic hydrocarbon compounds that are typically associated with gasoline (BTEX). The maximum concentration of total BTEX (i.e., additive sum of benzene, toluene, ethyl benzene, and xylenes) detected in the groundwater during the RI was 6,220 micrograms per Liter (µg/L) at well MW25-2. The maximum concentration of total chlorinated organics, 88 µg/L, was also detected at well MW25-2 during the ESI. The historic SEAD-25 groundwater data are presented in **Table A-1** in **Appendix A**.

Impacts to soil in the drainage swales at SEAD-25 were mainly from SVOCs, pesticides, and heavy metals. The most significant impacts from SVOCs and metals were found in the drainage swale northwest of the pad, whereas in the ditch, that runs along the west side of Administration Ave and turns west along Ordnance Drive, the most significant impact from SVOCs was found in a single upgradient location. No COCs were identified in SEAD-25 surface water that required remediation.

2.4 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 961 cy. The depth of excavation extended to the top of the competent shale bedrock, 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. All confirmatory soil samples representative of soil remaining on-site at the pad achieved the site-specific cleanup goals, and the soils at SEAD-25 do not require further action. 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 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 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 and off-site source, and restored to the existing grade.

2.5 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 plumes 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. USEPA's *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (USEPA, 1998) can be used as guidance in determining that 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 been shown at multiple sites to biodegrade under anaerobic (oxygen-poor) conditions as well. 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 concerning 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, 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 perchloroethene (PCE) and trichloroethene (TCE). Daughter products of these compounds (dichloroethene [DCE] and vinyl chloride) can be reductively dechlorinated under reducing conditions or directly oxidized under aerobic (oxidizing) conditions. Therefore, indicators of conditions appropriate for chlorinated biodegradation would include those parameters, such as methane, already identified for petroleum biodegradation, as well as the presence of chlorinated daughter products and chloride. It should be noted, however, that the presence of road salt may interfere with chloride data interpretation.

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 will be difficult to interpret since the contaminant concentrations are currently low, and have remained this way since the completion of the remedial action.

3.0 2010Q1, ROUND 6 RESULTS

The 2010Q1Round 6 sampling event was conducted from January 11, 2010 to January 14, 2010. Samples were collected from nine of the ten scheduled wells; MW25-13 was initially purged but failed to recharge adequately to allow for sample collection during the sampling event. The results for the Round 6 sampling event are presented in **Table 1**. Detailed discussion of the Round 6 analytical results is presented in **Section 4** of this report. Groundwater monitoring results from the Round 5 sampling event were previously presented in **Tables 3** and **4** in the *Year 3, Round 5 – Long-Term Monitoring Results for SEAD-25 at Seneca Army Depot Activity Technical Memorandum* issued in June 2009 (Parsons, 2009), and are included in **Table A-1** of **Appendix A** of this report.

4.0 LONG-TERM MONITORING RESULTS

Two rounds (Rounds 5 and 6) of sampling were conducted at SEAD-25 between the April 2009 (2009Q2) and January 2010 (2010Q1) LTM. The Round 5 event was completed between April 28, 2009 and April 29, 2009. Two monitoring wells (i.e., MW25-10 and MW25-13) originally scheduled for sampling held insufficient water volume for the required samples. The Round 6 sampling was completed between January 11, 2010 and January 14, 2010. Monitoring well MW25-13 scheduled

for sampling held less than a foot of water, was purged dry, but failed to recharge during the Round 6 sampling event. Field forms documenting the collection of groundwater during Round 5 (2009Q2) and Round 6 (2010Q1) at this site are provided in **Appendix B**.

Groundwater samples were collected using low-flow sampling techniques in both the April 2009 and the January 2010 sampling rounds. During the Round 5 (April 2009) sampling event, a combination of low-flow peristaltic/modified bailer and bladder pump methods were used to purge and sample specific wells. The peristaltic pump/modified bailer methods were used on the two wells (i.e., MW25-10 and MW25-13) in which the water level fell below the intake of the bladder pump or where there was less than 2 feet of water contained within the well. In these cases, VOC samples were collected by gently lowering an open length of Teflon lined tubing to the bottom of the well, capping the end exposed to the atmosphere, extracting the sealed tube length, and releasing the capped end while the sample bottle was beneath the open end of the tubing. Other sample fractions from these wells were collected using the peristaltic pump. All samples fractions from the remaining wells were collected using the low-flow bladder pumps.

During the Round 6 sampling event, a combination of low-flow peristaltic/bailer and bladder pump methods were used to purge and sample specific wells. The peristaltic pump was used on those wells (i.e., MW25-8, MW25-9, MW25-10, and MW25-15) in which the water level fell below the intake of the bladder pump or there was less than 2 feet of water inside the well. Teflon lined bailers were used to collect VOC and methane, ethane, and ethene (MEE) samples at wells were the use of the peristaltic pump was necessary. Again other fractions collected from these wells were collected using the peristaltic pump. All samples fractions from the remaining wells where sufficient water existed were collected using the low-flow bladder pumps.

Sampling procedures, sample handling and custody, holding times, and collection of field parameters were conducted in accordance with the *Final Sampling and Analysis Plan for Seneca Army Depot Activity* (SAP) (Parsons, 2005).

Groundwater samples were collected from eight monitoring (MW25-2, MW25-3, MW25-8, MW25-9, MW25-15, MW25-17, MW25-18, and MW25-19) during the Round 5 sampling event; samples were collected from 9 monitoring wells (MW25-2, MW25-3, MW25-8, MW25-9, MW25-10, MW25-15, MW25-17, MW25-18, and MW25-19) during the Round 6 sampling event. Groundwater elevation measurements were collected from all wells located at SEAD-25 during the Round 5 and Round 6 sampling events.

The collected groundwater samples were analyzed for the VOCs and natural attenuation parameters. Samples collected during the April 2009 and January 2010 sampling round were submitted to Columbia Analytical Services, Inc. (CAS) in Rochester, New York for the following analyses:

- VOCs by USEPA SW846 Method 8260B
- Methane/Ethane/Ethene by RSK-175
- Sulfate by USEPA Method 300.1
- Iron by USEPA SW846 Method 6010B

- Nitrate and Nitrite by USEPA Method 353.2
- Chloride by USEPA Method 300.1
- Sodium by USEPA SW846 Method 6010B

Analytical results reported for nine primary COCs (i.e., BTEX, and five chlorinated VOCs) were compared to groundwater cleanup goals, which are equivalent to New York's GA groundwater standards. Results of the other analyses conducted are used to assess whether there is evidence that natural attenuation is occurring.

In addition, the following geochemical parameters were measured and recorded in the field for each groundwater sample:

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

The pH, ORP, conductivity, temperature, and turbidity of the groundwater were measured with a Horiba model U-22 water quality meter, and dissolved oxygen content was measured with an YSI Inc. (YSI) model 85 Dissolved Oxygen Meter. The groundwater's sulfide concentration was measured in the field using a Hach model DR850 Colorimeter Kit. The geochemical parameters were measured to assess whether natural attenuation was occurring.

4.1 Groundwater Elevations

SEAD-25 groundwater elevation data were recorded on April 27, 2009 (Round 5) and January 11, 2010 (Round 6). Round 5 and Round 6 monitoring event groundwater elevation data and the historic elevation range are presented on **Table 2**. **Table C-1** in **Appendix C** provides all groundwater elevations recorded from 2006 to 2010 and documents groundwater elevation checks between sampling events.

The groundwater levels from the Round 5 and Round 6 LTM events produced similar groundwater contours. Groundwater contours shown in **Figure 4**, based on the most recent groundwater elevation data (January 2010), are consistent with past groundwater contours that indicate that shallow groundwater flow is radial, with the highest elevations centered in the area of the pad. Groundwater elevation trends for SEAD-25 wells during the six rounds of LTM are summarized on **Figures 5A** and **Figure 5B**.

4.2 Round 5 and 6 Analytical Data

Thirteen VOCs, including three primary COCs, were detected in SEAD-25 groundwater during the Round 5 sampling event (April 2009). Five VOCs, including two primary COCs, were detected in samples taken during the Round 6 LTM sampling event (January 2010). The groundwater results are presented in **Table 4**, where they are also compared to the groundwater cleanup goals listed in **Table 3**.

A summary of the range of concentrations found during the SEAD-25 Round 5 (2009Q2) and Round 6 (2010Q1) LTM monitoring events for the primary COCs is presented below:

Parameter	SEAD-25 LTM Round 5 Concentration Range (μg/L)	SEAD-25 LTM Round 6 Concentration Range (μg/L)	Groundwater Standard (μg/L)
Benzene	ND – 20	ND – 4 J	1
Toluene	ND – 1.3	ND	5
Ethyl benzene	ND – 11	ND	5
Xylene	ND	ND	5
111-TCA	ND	ND	5
11-DCA	ND – 1.4	ND	5
DCE	ND – 3.6	ND – 2.8 J	5
TCE	ND	ND	5

Note: Only detected COCs with site-specific cleanup goals are included in this summary table.
ND = non-detect J = estimated value

Benzene and ethyl benzene were the only primary COCs and the only VOCs that were observed to exceed the groundwater cleanup goals during either of the sampling events. Both of these compounds (20 μg/L for benzene; 11 μg/L for ethyl benzene) were observed at elevated concentrations in the groundwater at well MW25-2 during the Round 5 sampling event. Benzene was also observed at a concentration (4 μg/L; its duplicate was 1.8 U μg/L) above its GA standard in the sample collected from MW25-2 during the Round 6 event. Ethyl benzene was not detected in MW25-2 during the Round 6 sampling event.

Benzene was also observed at a concentration of 1.7 μg/L in well MW25-3 during the Round 5 event, but was non-detected in well MW25-3 during the Round 6 event (0.18 "U" μg/L; not detected at 1.8 μg/L).

Figure 6 presents a historical summary of the groundwater sampling results for SEAD-25 for the period from November 1995 to January 2010. As noted from a review of this figure, BTEX compounds have only been observed in three wells at SEAD-25 (i.e., MW25-2, MW25-3, and MW25-9) since 1995. Generally, these data indicate that the pre-remedial (1993 – 1996) action groundwater concentrations of BTEX compounds decreased once the remedial action was completed (2006) and have shown relatively minor variations in concentration since the second, post remedial action sampling event.

Figure 6 also indicates that the concentrations of total chlorinated organic found in the groundwater at SEAD-25 decreased dramatically once the remedial action was completed in 2006, and have remained low to non-detect since the 2006 action. Two chlorinated organics, 1,1-dichloroethane and cis-1,2-dicholorethene were detected in the groundwater at well MW25-2 during the Round 5 sampling event. One chlorinated organic compound (cis-1,2-dicholorethene) was detected in MW25-2 during the Round 6 sampling event.

4.3 Post Remedial Action Long-Term Monitoring Summary

Groundwater has been successfully collected and analyzed from some or all of the designated long-term monitoring wells during six of the 12 attempted sampling events. **Table 5** summarizes which wells have been sampled during the six successful sampling events. Round 4 was the most successful event as groundwater samples were collected from all wells. Round 3 was the least successful event as groundwater was only obtained from 4 wells. Monitoring wells MW25-2, MW25-17, and MW25-18 have been sampled during all six sampling events, while MW25-13 has only been sampled during three events.

Table 6 summarizes all of the analytes that have been detected during the six successful rounds of groundwater sampling and analysis. A maximum of 55 groundwater samples and duplicates have been collected and analyzed from the six successful sampling events. Selected volatile organic compounds (VOCs) have been characterized in all 55 of the samples collected, while iron, sodium chloride, sulfate, methane, ethane, and ethane were characterized in 53 of the samples, with nitrate, nitrite, and other compounds being characterized less frequently.

Eighteen VOCs were detected in one or more of the 55 samples characterized; and of these 18 benzene was the compound found most frequently (13 samples) and at concentrations in excess of its GA groundwater standard (1 µg/L) most frequently (10 times). Ethyl benzene was found at the second highest overall frequency (8 times), and at the second highest frequency at concentrations above it GA standard (5 µg/L; 5 times). Toluene and total xylenes were each detected once above their respective GA Standards (5 µg/L), but both were found in fewer than 4 samples. All of the BTEX compound exceedances were noted in wells MW25-2, MW25-3, or MW25-9.

Iron, sodium, and bis(2-ethylhexyl)phthalate were the only other compounds that were detected at concentrations in excess of their respective GA Standard levels; iron exceeded its 300µg/L threshold in 31 of 53 samples, while sodium was detected seven times above its 20,000µg/L standard, and bis(2-ethylhexyl)phthalate was detected once above its standard (5 µg/L, MW25-18, Round 2).

4.4 Data Trends and Natural Attenuation Evaluation

There are two main lines of evidence to determine whether natural attenuation is occurring, listed below in order of significance:

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 the plume. The well locations and concentrations are shown in **Figure 6**. Total BTEX concentrations have decreased from pre-remedial action levels, as shown on **Figure 6** and on the time plots (**Figures 7A**, **7B**, and **7C**). Similarly, time plots of chlorinated organics concentrations over

time in MW25-2, MW25-3, and MW25-9 (**Figures 8A**, **8B**, and **8C**) demonstrate that chlorinated VOCs have been reduced to levels below the detection limit in MW25-3 and MW25-9. MW25-2 time plot suggests that the chlorinated organics concentrations have been undergoing reduction during Round 5 (2009Q2) and Round 6 (2010Q1).

The analytical data indicate that the VOCs plume is attenuating. MW25-2 is considered the source well, since it generally has the highest concentrations of the VOCs. The Round 5 (2009Q2) and Round 6 (2010Q1) event concentrations of BTEX compounds found at MW25-2 was two orders of magnitude lower than the historic high value of 6,220 µg/L detected during the sampling events in 1996. Similarly, the total chlorinated VOC concentrations at MW25-2 decreased from 98 µg/L in 1994 and 68 µg/L in 1995 to 5.0 µg/L and 2.4 µg/L in the last two rounds, respectively. Further, the concentration of BTEX detected at MW25-9 decreased from 165 µg/L in 1995 to 0.46 µg/L in Round 5 and non-detect in Round 6. Similarly, the total chlorinated ethene concentrations at MW25-9 decreased by a factor of two from 10 µg/L in 1995 to 4.95 µg/L in January 2006, to non-detect or at the detection limit of 2.0 µg/L in the current sampling. Finally, total BTEX concentrations found at MW25-3 prior to the remedial action were ranged from not detected to a high of 38 µg/L while comparable concentrations reported at this location after the remedial action have varied from not detected to a maximum level of 1.7 µg/L. Similarly, MW25-3 shows that after the remedial action at SEAD-25, total chlorinated levels have remained below detection levels.

The geochemical parameters provide an indirect indication of the natural attenuation of the plume. Methane was detected in wells (MW25-2, MW25-3, MW25-8, and MW25-9) sampled during the April 2009 (2009Q2, Round 5) sampling event, and only MW25-2 during the January 2010 (2010Q1, Round 6) sampling event. The detection of methane is co-located with the maximum detection of BTEX. The detection of methane is an indicator that reductive dechlorination is occurring. A review of the other indicator data indicates no clear trends of degradation are observed. Parameters such as DO and ORP vary at each well location over time, and are not below benchmark values (0.5 mg/L for DO and -100 mV for ORP) at key monitoring wells (MW25-2, MW25-3, and MW25-9). An assessment of other parameters like chloride requires a comparison to background concentrations; and determination of background at SEAD-25 is hard to determine due to the aerial flow pattern with the most contaminated wells at the center. Overall, a review of the indicator parameters does not add a weight of evidence to the likelihood of the VOCs attenuating.

The Round 5 and 6 geochemical parameters are presented in **Tables 7** along with comparable historic data from the AOC wells.

Overall, the direct measurements of aromatic VOC concentrations in the three wells closest to the former source area (MW25-2, MW25-3, and MW25-9) indicate that the plume is attenuating (**Figures 9A, 9B**, and **9C**). Comparison of the pre- and post-remedial action groundwater concentrations at these wells shows that the aromatic compound concentrations have decreased significantly since the removal of the source area. Prior to the remedial action, the aggregate aromatic VOC concentration

in monitoring well MW25-2 exceeded 5,000 µg/L, with aggregate aromatic VOC concentrations of closer to 200 µg/L in wells MW25-3 and MW25-9. Since the completion of the SEAD-25 remedial action, the aggregate aromatic VOC concentrations in each of these three has fallen to 50 µg/L or less. Further, monitoring well MW25-2 is the only well at the site where aromatic VOCs have been detected in all of the consecutive long-term monitoring events, suggesting that the overall groundwater impact is continuing to decrease and aromatic COCs are not migrating.

Historically, the primary aromatic VOC found in the groundwater at SEAD-25 was mixed or total xylenes in conjunction with lesser amounts of toluene, ethyl benzene and benzene, all of which exceeded their respective GA standard concentrations consistently in wells MW25-2, MW25-3, and MW25-9. Since the completion of the remedial action at SEAD-25, benzene and ethyl benzene are the two dominant aromatic VOCs detected in the groundwater near the former SEAD-25 source area, with toluene and mixed/total xylenes frequently absent from the primary wells (MW25-2, MW25-3, and MW25-9). All detections of aromatic VOCs since the beginning of groundwater sampling at SEAD-25 have been limited to MW25-2, MW25-3, and MW25-9, which are thee three wells closest to the former source, and since the completion of the remedial action aromatics VOCs are now only found repeatedly at concentrations in excess of GA standards in the groundwater at MW25-2, which is the well closest to the former source area.

A review of data from MW25-2 indicates that the fluctuations in benzene concentrations may be related to variations in groundwater levels. **Figures 10** and **11** present data comparing benzene concentrations found in monitoring well MW25-2 versus saturated thickness for the post-remedial action monitoring events at SEAD-25. Both of these presentations use a concentration of 2.9 µg/L for benzene in MW25-2 during the last round, which is the average of the 4 µg/L detection found in the duplicate sample and the 1.8 "U" µg/L (not detected) concentration reported for the sample collected during this event. All other values reported for benzene on **Figures 10** and **11** are based on detected concentrations. **Figure 10** includes all of the post remediation long-term monitoring data, while **Figure 11** excludes the first post-removal action sampling event. The review of these figures suggests that benzene concentrations in the shallow aquifer tend to fall as the thickness of the saturated layer at the well increases. The correlation of this coincidental behavior is muted by one apparently anomalous reading, which shows an elevated concentration of benzene coincident with a saturated thickness in excess of 6 feet. This reading was collected during the first post-remediation long-term sampling event, and may reflect a period of re-equilibration of the aquifer immediately after the removal action excavation was completed and prior to backfilling groundwater was allowed to flow back into the open excavation before being pumped out and disposed. **Figure 11** shows the effect of removing this anomalous data point and reflects a stronger direct correlation of a decrease in benzene levels as the saturated thickness increases.

Similar fluctuations are observed for ethyl benzene (**Figure 12**) and total BTEX (**Figure 13**) concentrations in well MW25-2. Again, presentations provided on each of these figures do not include concentrations measured for these parameters during the first post-remedial action sampling

event at MW25-2, and with the exception noted above for the average value of benzene during the Round 6 sampling event, both presentations only include data where valid concentrations (no non-detects) are reported. The **Figure 13** presentation includes concentrations reported for benzene, ethyl benzene, toluene and xylene.

A decrease in groundwater contaminant concentrations is expected as aquifer thickness increases, especially in situations where no continuing source of contaminant release exists. Under these circumstances, the added clean water dilutes the existing base load of the contaminants present in the groundwater, and the contaminant concentrations decrease. However, if contaminant concentrations at a site are assessed without consideration of aquifer thickness variation, variations in contaminant concentrations observed at a well over time may also be viewed as an indication that there could be a pulsing release of contaminants occurring at the site. Based on the information and discussion provided above, it appears that BTEX concentrations observed at MW25-2 fluctuates in correlation with changes in water levels, indicating that the increase is not due to the release of additional contaminants. The removal of the previously defined source (i.e., contaminated soil) present in SEAD-25 and the verification that soils left at the site achieved cleanup objectives supports the lack of a continuing release of contaminants from SEAD-25. Other data supporting the theory that saturated thickness may affect the contaminant concentrations in the wells is the fact that there has never been any indication that the aromatic hydrocarbon plume is expanding at the AOC.

Figure 14 provides a presentation of benzene concentrations versus saturated thickness in well MW25-9. **Figure 15** provides an equivalent presentation for total BTEX concentrations in the same well. This is the only other well where adequate sample detections of the BTEX contaminants exist to support such an analysis. Both of these figures include all detected contaminant concentrations observed during Rounds 1, 2, 4 and 5. Neither benzene nor any of the other BTEX compounds were detected in MW25-9 during the Round 6 sampling event, and due to lack of water, no sample could be collected from MW25-9 during the 2007Q2 Round 3 sampling event. No obvious correlation is observed based on the data presented in either **Figure 14** or **15** as is evidenced by the low correlation coefficient (i.e., R^2). In each case, the correlation results are heavily affected by the high concentrations reported for benzene and the other BTEX compounds during the Round 1 sampling event that was completed in January 2006 at this well. Since the Round 1 sampling event, the benzene concentration reported at MW25-9 has decreased by at least an order of magnitude (i.e., 33 µg/L Round 1, to 2.3 µg/L Round 4) and during the last two rounds of LTM (Round 5 and 6 results) it has fallen below the GA standard level of 1 µg/L. Similarly, the concentrations of all other BTEX contaminants at MW25-9 have dropped below their respective GA standard levels, which suggests that the BTEX plume at SEAD-25 is not increasing and more likely is diminishing or attenuating.

Further analysis of potential correlations between aquifer saturated thickness and contaminant concentrations will be made after future sampling rounds to determine whether this apparent correlation continues to be supported by the collected data at MW25-2.

5.0 REMEDY EVALUATION

As discussed in **Section 2.4**, 961 cy of VOC impacted soil was removed from the pad located at SEAD-25 as is shown on **Figure 6**. The soil was removed to eliminate the source of VOCs which could have contributed to further groundwater degradation in the area. Long-term groundwater monitoring is now being performed at SEAD-25 to show that the soil removal remedy has effectively eliminated 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 local groundwater quality.

The BTEX and chlorinated organics groundwater concentrations have decreased by more than 99% since the soil removal (shown in the time plots on **Figures 7** and **8**) due to the natural attenuation process and the removal of the source material. The remedy of soil removal has been effective at SEAD-25.

The remedy for SEAD-25 required the implementation and maintenance of land use controls (LUCs) at site. The LUC requirements are detailed Addendum 1 in the *Land Use Control Remedial Design for SEAD 27, 66, 64A, Final* (2006). 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 NYS Class GA Groundwater Standards are met.

As part of the LTM program, the Army inspected the areas of SEAD-25 and SEAD-26 to determine that the LUCs are being maintained. While performing the groundwater sampling, it was confirmed that no prohibited facilities have been constructed and no access to or use of groundwater was evident.

6.0 LONG-TERM MONITORING CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

- The concentrations of BTEX in the groundwater at SEAD-25 have decreased by up to three orders of magnitude since 1994;
- Chlorinated VOCs were not detected above cleanup goals;
- The VOC plumes at SEAD-25 are attenuating to levels close to or lower than all applicable groundwater standards;
- The soil excavation remedy at SEAD-25 has been effective; and

- Land and groundwater restrictions imposed at SEAD-25 continue to be maintained, and there are no signs of unauthorized use or access.

6.2 Recommendations

Based on the historical data and the results of the Round 5 (2009Q2) and Round 6 (2010Q1) semi-annual LTM events at SEAD-25, the Army recommends the following:

- Groundwater monitoring will continue on a semi-annual basis at SEAD-25 for 2010 - 2011. At that time, the LTM program will be re-evaluated.

TABLES

Table 1
SEAD-25 LTM Round 6 Groundwater Results
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Facility								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
Location ID								MW25-10	MW25-15	MW25-17	MW25-18	MW25-19
Matrix								GW	GW	GW	GW	GW
Sample ID								25LM20061	25LM20063	25LM20055	25LM20056	25LM20057
Sample Date								1/13/2010	1/13/2010	1/14/2010	1/14/2010	1/13/2010
QC Code								SA	SA	SA	SA	SA
Study ID								LTM	LTM	LTM	LTM	LTM
Sampling Round								6	6	6	6	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	10	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	10	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	5	0	0	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1,2-Trichloroethane	UG/L	0	0%	1	0	0	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	UG/L	0	0%	5	0	0	10	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	UG/L	0	0%	5	0	0	10	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trichlorobenzene	UG/L	0	0%	5	0	0	10	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2-Dibromo-3-chloropropane	UG/L	0	0%	0.04	0	0	10	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2-Dibromoethane	UG/L	0	0%	0.0006	0	0	10	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,2-Dichlorobenzene	UG/L	0	0%	3	0	0	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloroethane	UG/L	0	0%	0.6	0	0	10	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	UG/L	0	0%	1	0	0	10	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	UG/L	0	0%	3	0	0	10	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
1,4-Dichlorobenzene	UG/L	0	0%	3	0	0	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Acetone	UG/L	0	0%		0	0	10	5 U	5 U	5 U	5 U	5 U
Benzene	UG/L	4	10%	1	1	1	10	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	UG/L	0	0%	80	0	0	10	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	UG/L	0	0%	80	0	0	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon disulfide	UG/L	0	0%		0	0	10	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Carbon tetrachloride	UG/L	0	0%	5	0	0	10	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Chlorobenzene	UG/L	0	0%	5	0	0	10	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chlorodibromomethane	UG/L	0	0%	80	0	0	10	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloroethane	UG/L	0	0%	5	0	0	10	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	UG/L	0	0%	7	0	0	10	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cis-1,2-Dichloroethene	UG/L	2.8	20%	5	0	2	10	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Cis-1,3-Dichloropropene	UG/L	0	0%	0.4	0	0	10	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Cyclohexane	UG/L	0	0%		0	0	10	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Dichlorodifluoromethane	UG/L	0	0%	5	0	0	10	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethyl benzene	UG/L	0	0%	5	0	0	10	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Isopropylbenzene	UG/L	0	0%	5	0	0	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Meta/Para Xylene	UG/L	0	0%	5	0	0	10	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Methyl Acetate	UG/L	0	0%		0	0	10	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Methyl Tertbutyl Ether	UG/L	0	0%		0	0	10	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Methyl bromide	UG/L	0	0%	5	0	0	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl butyl ketone	UG/L	0	0%		0	0	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl chloride	UG/L	0	0%	5	0	0	10	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Methyl cyclohexane	UG/L	0	0%		0	0	10	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methyl ethyl ketone	UG/L	0	0%		0	0	10	1 U	1 U	1 U	1 U	1 U
Methyl isobutyl ketone	UG/L	0	0%		0	0	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Methylene chloride	UG/L	0	0%	5	0	0	10	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Ortho Xylene	UG/L	0	0%	5	0	0	10	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Styrene	UG/L	0	0%	5	0	0	10	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Tetrachloroethene	UG/L	0	0%	5	0	0	10	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Toluene	UG/L	0	0%	5	0	0	10	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Trans-1,2-Dichloroethene	UG/L	0	0%	5	0	0	10	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U

Table 1
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Facility								SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Location ID								MW25-10		MW25-15		MW25-17		MW25-18		MW25-19	
Matrix								GW		GW		GW		GW		GW	
Sample ID								25LM20061		25LM20063		25LM20055		25LM20056		25LM20057	
Sample Date								1/13/2010		1/13/2010		1/14/2010		1/14/2010		1/13/2010	
QC Code								SA		SA		SA		SA		SA	
Study ID								LTM		LTM		LTM		LTM		LTM	
Sampling Round								6		6		6		6		6	
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)
Trans-1,3-Dichloropropene	UG/L	0	0%	0.4	0	0	10	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Trichloroethene	UG/L	0	0%	5	0	0	10	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Trichlorofluoromethane	UG/L	0	0%	5	0	0	10	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
Vinyl chloride	UG/L	0	0%	2	0	0	10	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
Inorganics																	
Iron	UG/L	2900	100%	300	7	10	10	**508**		**769**		86.9	J	122		204	
Sodium	UG/L	28400	100%	20000	1	10	10	6420		3620		4450		**28400**		4350	
Chloride	MG/L	51.7	60%	250000	0	6	10	2.1		0.5	U	2.5		51.7		2.3	
Ethane	UG/L	0	0%		0	0	10	0.21	U	0.16	U	0.21	U	0.16	U	0.16	U
Ethene	UG/L	0	0%		0	0	10	0.22	U	0.17	U	0.22	U	0.17	U	0.17	U
Methane	UG/L	22	20%		0	2	10	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
NITRATE	MG/L	0.245	40%		0	4	10	0.05	UJ	0.05	UJ	0.245	J	0.2	J	0.113	J
NITRITE	MG/L	0	0%		0	0	10	0.007	UJ	0.007	UJ	0.007	UJ	0.007	UJ	0.007	UJ
Nitrate/Nitrite Nitrogen	MG/L	0.245	40%	10000	0	4	10	0.003	UJ	0.003	UJ	0.245	J	0.2	J	0.113	J
Sulfate	MG/L	182	100%	250000	0	10	10	27.1	J	24.8	J	16.7	J	26.8	J	31	J

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

Table 1
SEAD-25 LTM Round 6 Groundwater Results
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Seneca Army Depot Activity

Facility								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
Location ID								MW25-2	MW25-2	MW25-3	MW25-8	MW25-9
Matrix								GW	GW	GW	GW	GW
Sample ID								25LM20054	25LM20053	25LM20060	25LM20059	25LM20058
Sample Date								1/11/2010	1/11/2010	1/12/2010	1/13/2010	1/12/2010
QC Code								DU	SA	SA	SA	SA
Study ID								LTM	LTM	LTM	LTM	LTM
Sampling Round								6	6	6	6	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	10	3.2 U	3.2 U	0.32 U	0.32 U	0.32 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	10	0.9 U	0.9 U	0.09 U	0.09 U	0.09 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	5	0	0	10	4 U	4 U	0.4 U	0.4 U	0.4 U
1,1,2-Trichloroethane	UG/L	0	0%	1	0	0	10	2 U	2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	UG/L	0	0%	5	0	0	10	1.5 U	1.5 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	UG/L	0	0%	5	0	0	10	3.7 U	3.7 U	0.37 U	0.37 U	0.37 U
1,2,4-Trichlorobenzene	UG/L	0	0%	5	0	0	10	1.9 U	1.9 U	0.19 U	0.19 U	0.19 U
1,2-Dibromo-3-chloropropane	UG/L	0	0%	0.04	0	0	10	4.3 U	4.3 U	0.43 U	0.43 U	0.43 U
1,2-Dibromoethane	UG/L	0	0%	0.0006	0	0	10	1.8 U	1.8 U	0.18 U	0.18 U	0.18 U
1,2-Dichlorobenzene	UG/L	0	0%	3	0	0	10	4 U	4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloroethane	UG/L	0	0%	0.6	0	0	10	1.5 U	1.5 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	UG/L	0	0%	1	0	0	10	1.5 U	1.5 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	UG/L	0	0%	3	0	0	10	3.6 U	3.6 U	0.36 U	0.36 U	0.36 U
1,4-Dichlorobenzene	UG/L	0	0%	3	0	0	10	3.5 U	3.5 U	0.34 U	0.34 U	0.34 U
Acetone	UG/L	0	0%		0	0	10	50 U	50 U	5 U	5 U	5 U
Benzene	UG/L	4	10%	1	1	1	10	4 J	1.8 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	UG/L	0	0%	80	0	0	10	1.8 U	1.8 U	0.17 U	0.17 U	0.17 U
Bromoform	UG/L	0	0%	80	0	0	10	2 U	2 U	0.2 U	0.2 U	0.2 U
Carbon disulfide	UG/L	0	0%		0	0	10	3.6 U	3.6 UJ	0.36 U	0.36 U	0.36 U
Carbon tetrachloride	UG/L	0	0%	5	0	0	10	3.6 U	3.6 U	0.36 U	0.36 U	0.36 U
Chlorobenzene	UG/L	0	0%	5	0	0	10	2.6 U	2.6 U	0.26 U	0.26 U	0.26 U
Chlorodibromomethane	UG/L	0	0%	80	0	0	10	1.1 U	1.1 U	0.11 U	0.11 U	0.11 U
Chloroethane	UG/L	0	0%	5	0	0	10	2.1 U	2.1 U	0.21 U	0.21 U	0.21 U
Chloroform	UG/L	0	0%	7	0	0	10	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U
Cis-1,2-Dichloroethene	UG/L	2.8	20%	5	0	2	10	2.8 J	2 J	0.14 U	0.14 U	0.14 U
Cis-1,3-Dichloropropene	UG/L	0	0%	0.4	0	0	10	1.5 U	1.5 U	0.14 U	0.14 U	0.14 U
Cyclohexane	UG/L	0	0%		0	0	10	1.5 U	1.5 U	0.14 U	0.14 U	0.14 U
Dichlorodifluoromethane	UG/L	0	0%	5	0	0	10	1.8 U	1.8 U	0.18 U	0.18 U	0.18 U
Ethyl benzene	UG/L	0	0%	5	0	0	10	4.2 U	4.2 U	0.42 U	0.42 U	0.42 U
Isopropylbenzene	UG/L	0	0%	5	0	0	10	3.5 U	3.5 U	0.34 U	0.34 U	0.34 U
Meta/Para Xylene	UG/L	0	0%	5	0	0	10	8.2 U	8.2 U	0.81 U	0.81 U	0.81 U
Methyl Acetate	UG/L	0	0%		0	0	10	4.7 U	4.7 U	0.48 U	0.48 U	0.48 U
Methyl Tertbutyl Ether	UG/L	0	0%		0	0	10	1.3 U	1.3 U	0.13 U	0.13 U	0.13 U
Methyl bromide	UG/L	0	0%	5	0	0	10	4 U	4 U	0.4 U	0.4 U	0.4 U
Methyl butyl ketone	UG/L	0	0%		0	0	10	4 U	4 U	0.4 U	0.4 U	0.4 U
Methyl chloride	UG/L	0	0%	5	0	0	10	1.8 U	1.8 U	0.18 U	0.18 U	0.18 U
Methyl cyclohexane	UG/L	0	0%		0	0	10	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U
Methyl ethyl ketone	UG/L	0	0%		0	0	10	10 U	10 U	1 U	1 U	1 U
Methyl isobutyl ketone	UG/L	0	0%		0	0	10	3.5 U	3.5 U	0.34 U	0.34 U	0.34 U
Methylene chloride	UG/L	0	0%	5	0	0	10	1.3 U	1.3 U	0.13 U	0.13 U	0.13 U
Ortho Xylene	UG/L	0	0%	5	0	0	10	4 U	4 U	0.4 U	0.4 U	0.4 U
Styrene	UG/L	0	0%	5	0	0	10	3.6 U	3.6 U	0.36 U	0.36 U	0.36 U
Tetrachloroethene	UG/L	0	0%	5	0	0	10	4.2 U	4.2 U	0.42 U	0.42 U	0.42 U
Toluene	UG/L	0	0%	5	0	0	10	2.1 U	2.1 U	0.21 U	0.21 U	0.21 U
Trans-1,2-Dichloroethene	UG/L	0	0%	5	0	0	10	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U

Table 1
SEAD-25 LTM Round 6 Groundwater Results
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Facility								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
Location ID								MW25-2	MW25-2	MW25-3	MW25-8	MW25-9
Matrix								GW	GW	GW	GW	GW
Sample ID								25LM20054	25LM20053	25LM20060	25LM20059	25LM20058
Sample Date								1/11/2010	1/11/2010	1/12/2010	1/13/2010	1/12/2010
QC Code								DU	SA	SA	SA	SA
Study ID								LTM	LTM	LTM	LTM	LTM
Sampling Round								6	6	6	6	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Trans-1,3-Dichloropropene	UG/L	0	0%	0.4	0	0	10	1.8 U	1.8 U	0.17 U	0.17 U	0.17 U
Trichloroethene	UG/L	0	0%	5	0	0	10	1.9 U	1.9 U	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	UG/L	0	0%	5	0	0	10	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	UG/L	0	0%	2	0	0	10	2.2 U	2.2 U	0.22 U	0.22 U	0.22 U
Inorganics												
Iron	UG/L	2900	100%	300	7	10	10	**2410**	**2900**	**702**	**408**	**916**
Sodium	UG/L	28400	100%	20000	1	10	10	7720	7880	7370	9740	16500
Chloride	MG/L	51.7	60%	250000	0	6	10	2.8	0.5 U	2.8	0.5 U	0.5 U
Ethane	UG/L	0	0%		0	0	10	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Ethene	UG/L	0	0%		0	0	10	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Methane	UG/L	22	20%		0	2	10	22	20	0.14 U	0.14 U	0.14 U
NITRATE	MG/L	0.245	40%		0	4	10	0.05 UJ	0.199 J	0.05 UJ	0.05 UJ	0.05 UJ
NITRITE	MG/L	0	0%		0	0	10	0.007 UJ	0.007 UJ	0.007 UJ	0.007 UJ	0.007 UJ
Nitrate/Nitrite Nitrogen	MG/L	0.245	40%	10000	0	4	10	0.003 UJ	0.199 J	0.003 UJ	0.003 UJ	0.003 UJ
Sulfate	MG/L	182	100%	250000	0	10	10	64.8 J	64.4 J	182 J	35.2 J	35.3 J

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

Table 2
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	Round 1 - April 12, 2006			Round 2 - August 7, 2006			Round 3 - June 4, 2007		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	1.97	5.80	737.20	2.12	5.65	737.35	1.27	6.50	736.50
MW25-2	746.36	11.10	5.85	5.25	741.11	6.30	4.8	741.56	3.28	7.82	738.54
MW25-3	745.76	9.00	3.35	5.65	740.11	3.55	5.45	740.31	0.82	8.18	737.58
MW25-6	744.44	14.40	8.90	5.5	738.94	8.70	5.7	738.74	5.85	8.55	735.89
MW25-8	742.46	5.60	2.80	2.8	739.66	2.40	3.2	739.26	0.60	5.00	737.46
MW25-9	742.36	5.60	2.75	2.85	739.51	1.80	3.8	738.56	0.59	5.01	737.35
MW25-10	743.01	6.80	2.55	4.25	738.76	2.20	4.6	738.41		dry	
MW25-11	740.25	7.20	2.75	4.45	735.80	2.15	5.05	735.20	0.35	6.85	733.40
MW25-13	739.64	5.70	1.80	3.9	735.74	1.15	4.55	735.09	0.65	5.05	734.59
MW25-15	741.00	7.20	3.15	4.05	736.95	2.60	4.6	736.40		dry	
MW25-17	743.94	11.60	7.40	4.2	739.74	7.25	4.35	739.59	4.15	7.45	736.49
MW25-18	744.35	11.00				5.30	5.7	738.65	3.78	7.22	737.13
MW25-19	741.95	12.10				6.35	5.75	736.20	3.07	9.03	732.92

Notes:

1. Groundwater levels were recorded in April 1994, November 1995, December 1995, March 1996, January 2006, April 2006, August 2006, June 2007, February 2008, April 2009, and January 2010.
2. The bedrock wells are not included as part of the LTM program and are not included in this table.

Table 2
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	Round 4 - Feb 26, 2008			August 27, 2008			October 25, 2008		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	1.88	5.89	737.11	0.67	7.10	735.90	0.62	7.15	735.85
MW25-2	746.36	11.10	6.35	4.75	741.61	3.70	7.40	738.96	2.73	8.37	737.99
MW25-3	745.76	9.00	4.41	4.59	741.17	0.49	8.51	737.25	-0.52	9.52	736.24
MW25-6	744.44	14.40	9.86	4.54	739.90	5.07	9.33	735.11	3.82	10.58	733.86
MW25-8	742.46	5.60	3.28	2.32	740.14	0.58	5.02	737.44	0.58	5.02	737.44
MW25-9	742.36	5.60	3.35	2.25	740.11	0.61	4.99	737.37	0.62	4.98	737.38
MW25-10	743.01	6.80	3.06	3.74	739.27	0.72	6.08	736.93	0.69	6.11	736.90
MW25-11	740.25	7.20	3.11	4.09	736.16	0.34	6.86	733.39	0.91	6.29	733.96
MW25-13	739.64	5.70	1.88	3.82	735.82	0.62	5.08	734.56	0.66	5.04	734.60
MW25-15	741.00	7.20	3.77	3.43	737.57	0.29	6.91	734.09	0.29	6.91	734.09
MW25-17	743.94	11.60	8.32	3.28	740.66	3.25	8.35	735.59	1.70	9.90	734.04
MW25-18	744.35	11.00	10.85	0.15	744.20	3.04	7.96	736.39	1.70	9.30	735.05
MW25-19	741.95	12.10	8.10	4.00	737.95	2.01	10.09	731.86	2.03	10.07	731.88

Notes:

1. Groundwater levels were recorded in April 1994, Nc
2. The bedrock wells are not included as part of the L7

Table 2
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	November 4, 2008			Round 5 - April 27, 2009			December 18, 2009		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	1.52	6.25	736.75	1.68	6.09	736.91			
MW25-2	746.36	11.10	4.95	6.15	740.21	4.99	6.11	740.25	5.85	5.25	741.11
MW25-3	745.76	9.00	0.04	8.96	736.80	2.81	6.19	739.57	3.60	5.40	740.36
MW25-6	744.44	14.40	6.79	7.61	736.83	7.97	6.43	738.01			
MW25-8	742.46	5.60	0.57	5.03	737.43	1.86	3.74	738.72			
MW25-9	742.36	5.60	1.09	4.51	737.85	1.41	4.19	738.17	3.10	2.50	739.86
MW25-10	743.01	6.80	0.69	6.11	736.90	0.89	5.91	737.10			
MW25-11	740.25	7.20	1.42	5.78	734.47	1.62	5.58	734.67			
MW25-13	739.64	5.70	0.89	4.81	734.83	0.66	5.04	734.60			
MW25-15	741.00	7.20	0.27	6.93	734.07	1.75	5.45	735.55			
MW25-17	743.94	11.60	5.20	6.40	737.54	6.52	5.08	738.86			
MW25-18	744.35	11.00	4.48	6.52	737.83	5.00	6.00	738.35			
MW25-19	741.95	12.10	3.99	8.11	733.84	6.60	5.50	736.45			

Notes:

1. Groundwater levels were recorded in April 1994, No
2. The bedrock wells are not included as part of the L

Table 2
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	Round 6 - January 11, 2010			Round 7 - August 2, 2010			Historical Data[1]		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Groundwater Elevation (ft)		
									Maximum	Minimum	Range
MW25-1	743.00	7.77	1.79	5.98	737.02	1.18	6.59	736.41	737.54	736.50	1.04
MW25-2	746.36	11.10	5.73	5.37	740.99	4.71	6.39	739.97	742.05	738.54	3.51
MW25-3	745.76	9.00	3.86	5.14	740.62	1.42	7.58	738.18	742.67	737.58	5.09
MW25-6	744.44	14.40	7.97	6.43	738.01	5.89	8.51	735.93	740.70	735.89	4.81
MW25-8	742.46	5.60	2.75	2.85	739.61	0.53	5.07	737.39	740.93	737.46	3.47
MW25-9	742.36	5.60	3.10	2.50	739.86	0.62	4.98	737.38	740.95	737.35	3.60
MW25-10	743.01	6.80	2.54	4.26	738.75	0.76	6.04	736.97	740.58	737.10	3.48
MW25-11	740.25	7.20	1.59	5.61	734.64	0.53	6.67	733.58	737.68	733.40	4.28
MW25-13	739.64	5.70	0.79	4.91	734.73	0.64	5.06	734.58	737.15	734.59	2.56
MW25-15	741.00	7.20	3.02	4.18	736.82	0.30	6.90	734.10	738.29	735.55	2.74
MW25-17	743.94	11.60	6.58	5.02	738.92	4.26	7.34	736.60	741.20	736.49	4.71
MW25-18	744.35	11.00	5.09	5.91	738.44	3.88	7.12	737.23	744.20	737.13	7.07
MW25-19	741.95	12.10	5.89	6.21	735.74	3.31	8.79	733.16	738.41	732.92	5.49

Notes:

1. Groundwater levels were recorded in April 1994, Nc
2. The bedrock wells are not included as part of the L

Table 3
SEAD-25 Site-Specific Cleanup Goals for Groundwater
SEAD-25 Third Annual Report
Seneca Army Depot Activity

	Groundwater NYSDEC Class GA Standard[1] ug/L
Volatile Organic Compounds	
1,1,1-Trichloroethane	5
1,1-Dichloroethane	5
1,2-Dichloroethene (total)	5
Benzene	1
Cis-1,2-Dichloroethene	5
Chloroform	7
Ethyl benzene	5
Toluene	5
Trichloroethene	5
Xylene (total)	5

Notes:

1. NYSDEC AWQS for Class GA waters. From 6 NYCRR Parts 701-705. TOGS 1.1.1, June 1998.

Table 4
SEAD-25 VOC Concentrations in Groundwater
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Facility								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
Location ID								MW25-10	MW25-15	MW25-15	MW25-17	MW25-17	MW25-18
Matrix								GW	GW	GW	GW	GW	GW
Sample ID								25LM20061	25LM20052	25LM20063	25LM20043	25LM20055	25LM20044
Sample Date								1/13/2010	4/29/2009	1/13/2010	4/28/2009	1/14/2010	4/28/2009
QC Code								SA	SA	SA	SA	SA	SA
Study ID								LTM	LTM	LTM	LTM	LTM	LTM
Sampling Round								6	5	6	5	6	5
Parameter [1]	**Units**	**Maximum Value**	**Frequency of Detection**	**Cleanup Goal [2]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	19	0.32 U	1 U	0.32 U	1 U	0.32 U	1 U
1,1-Dichloroethane	UG/L	1.4	11%	5	0	2	19	0.14 U	1 U	0.14 U	1 U	0.14 U	1 U
Benzene	UG/L	20	26%	1	4	5	19	0.18 U	1 U	0.18 U	1 U	0.18 U	1 U
Chloroform	UG/L	0	0%	7	0	0	19	0.16 U	1 U	0.16 U	1 U	0.16 U	1 U
Cis-1,2-Dichloroethene	UG/L	3.6	21%	5	0	4	19	0.14 U	1 U	0.14 U	1 U	0.14 U	1 U
Ethyl benzene	UG/L	11	11%	5	2	2	19	0.42 U	1 U	0.42 U	1 U	0.42 U	1 U
Meta/Para Xylene	UG/L	0	0%	5	0	0	19	0.81 U	2 U	0.81 U	2 U	0.81 U	2 U
Ortho Xylene	UG/L	0	0%	5	0	0	19	0.4 U	1 U	0.4 U	1 U	0.4 U	1 U
Toluene	UG/L	1.3	11%	5	0	2	19	0.21 U	1 U	0.21 U	1 U	0.21 U	1 U
Total Xylene	UG/L	0	0%	5	0	0	19	1.21 U	3 U	1.21 U	3 U	1.21 U	3 U
Trichloroethene	UG/L	0	0%	5	0	0	19	0.19 U	1 U	0.19 U	1 U	0.19 U	1 U

Notes:
1. Only parameters with site-specific cleanup goals listed in Table 2 are included.
2. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
3. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

Table 4
SEAD-25 VOC Concentrations in Groundwater
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Facility								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
Location ID								MW25-18	MW25-19	MW25-19	MW25-2	MW25-2	MW25-2	MW25-2
Matrix								GW	GW	GW	GW	GW	GW	GW
Sample ID								25LM20056	25LM20045	25LM20057	25LM20048	25LM20042	25LM20054	25LM20053
Sample Date								1/14/2010	4/28/2009	1/13/2010	4/29/2009	4/29/2009	1/11/2010	1/11/2010
QC Code								SA	SA	SA	DU	SA	DU	SA
Study ID								LTM	LTM	LTM	LTM	LTM	LTM	LTM
Sampling Round								6	5	6	5	5	6	6
Parameter [1]	**Units**	**Maximum Value**	**Frequency of Detection**	**Cleanup Goal [2]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds														
1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	19	0.32 U	1 U	0.32 U	1 U	1 U	3.2 U	3.2 U
1,1-Dichloroethane	UG/L	1.4	11%	5	0	2	19	0.14 U	1 U	0.14 U	1.4	1.3	1.5 U	1.5 U
Benzene	UG/L	20	26%	1	4	5	19	0.18 U	1 U	0.18 U	**20**	**17**	**4** J	1.8 U
Chloroform	UG/L	0	0%	7	0	0	19	0.16 U	1 U	0.16 U	1 U	1 U	1.6 U	1.6 U
Cis-1,2-Dichloroethene	UG/L	3.6	21%	5	0	4	19	0.14 U	1 U	0.14 U	3.6	3.6	2.8 J	2 J
Ethyl benzene	UG/L	11	11%	5	2	2	19	0.42 U	1 U	0.42 U	**11**	**11**	4.2 U	4.2 U
Meta/Para Xylene	UG/L	0	0%	5	0	0	19	0.81 U	2 U	0.81 U	2 U	2 U	8.2 U	8.2 U
Ortho Xylene	UG/L	0	0%	5	0	0	19	0.4 U	1 U	0.4 U	1 U	1 U	4 U	4 U
Toluene	UG/L	1.3	11%	5	0	2	19	0.21 U	1 U	0.21 U	1.3	1.2	2.1 U	2.1 U
Total Xylene	UG/L	0	0%	5	0	0	19	1.21 U	3 U	1.21 U	3 U	3 U	12.2 U	12.2 U
Trichloroethene	UG/L	0	0%	5	0	0	19	0.19 U	1 U	0.19 U	1 U	1 U	1.9 U	1.9 U

Notes:
1. Only parameters with site-specific cleanup goals listed in Table 2 are included.
2. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
3. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

Table 4
SEAD-25 VOC Concentrations in Groundwater
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Facility								SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
Location ID								MW25-3		MW25-3		MW25-8		MW25-8		MW25-9		MW25-9	
Matrix								GW		GW		GW		GW		GW		GW	
Sample ID								25LM20046		25LM20060		25LM20047		25LM20059		25LM20049		25LM20058	
Sample Date								4/29/2009		1/12/2010		4/29/2009		1/13/2010		4/29/2009		1/12/2010	
QC Code								SA		SA		SA		SA		SA		SA	
Study ID								LTM		LTM		LTM		LTM		LTM		LTM	
Sampling Round								5		6		5		6		5		6	
Parameter [1]	**Units**	**Maximum Value**	**Frequency of Detection**	**Cleanup Goal [2]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)
Volatile Organic Compounds																			
1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	19	1	U	0.32	U	1	U	0.32	U	1	U	0.32	U
1,1-Dichloroethane	UG/L	1.4	11%	5	0	2	19	1	U	0.14	U	1	U	0.14	U	1	U	0.14	U
Benzene	UG/L	20	26%	1	4	5	19	**1.7**		0.18	U	1	U	0.18	U	0.46	J	0.18	U
Chloroform	UG/L	0	0%	7	0	0	19	1	U	0.16	U	1	U	0.16	U	1	U	0.16	U
Cis-1,2-Dichloroethene	UG/L	3.6	21%	5	0	4	19	1	U	0.14	U	1	U	0.14	U	1	U	0.14	U
Ethyl benzene	UG/L	11	11%	5	2	2	19	1	U	0.42	U	1	U	0.42	U	1	U	0.42	U
Meta/Para Xylene	UG/L	0	0%	5	0	0	19	2	U	0.81	U	2	U	0.81	U	2	U	0.81	U
Ortho Xylene	UG/L	0	0%	5	0	0	19	1	U	0.4	U	1	U	0.4	U	1	U	0.4	U
Toluene	UG/L	1.3	11%	5	0	2	19	1	U	0.21	U	1	U	0.21	U	1	U	0.21	U
Total Xylene	UG/L	0	0%	5	0	0	19	3	U	1.21	U	3	U	1.21	U	3	U	1.21	U
Trichloroethene	UG/L	0	0%	5	0	0	19	1	U	0.19	U	1	U	0.19	U	1	U	0.19	U

Notes:
1. Only parameters with site-specific cleanup goals listed in Table 2 are included.
2. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
3. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

Table 5
Summary of Wells Sampled
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Well ID / Round	ROUND						Total for Well
	1 2006Q1	2 2006Q3	3 2007Q2	4 2008Q1	5 2009Q2	6 2010Q1	
MW25-2	X	X	X	X	X	X	**6**
MW25-3	X	X		X	X	X	**5**
MW25-8	X	X		X	X	X	**5**
MW25-9	X	X		X	X	X	**5**
MW25-10	X	X		X		X	**4**
MW25-13	X	X		X			**3**
MW25-15	X	X		X	X	X	**5**
MW25-17	X	X	X	X	X	X	**6**
MW25-18	X	X	X	X	X	X	**6**
MW25-19			X	X	X	X	**4**
Total for Round	**9**	**9**	**4**	**10**	**8**	**9**	

Notes:

X = Well sampled for some analytes

[*empty*] = Well could not be sampled.

Table 6
Analytes Detected during SEAD-25 LTM
SEAD-25 Third Annual Report
Seneca Army Depot Activitiy

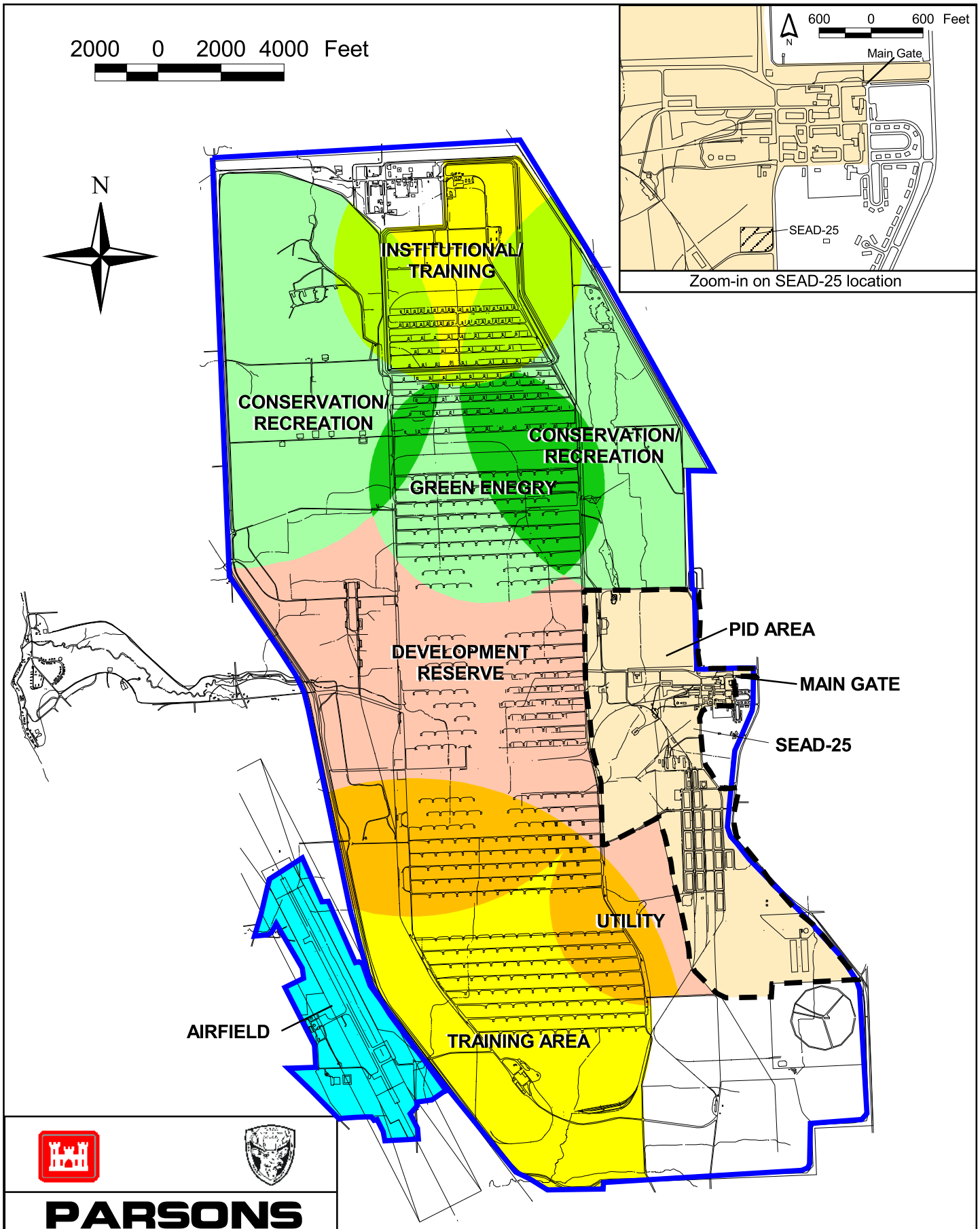
Parameter	Units	Maximum Value	Frequency of Detection	Action Level Source	Lowest GW Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55
Acetone	UG/L	1.4	2%			0	1	55
Benzene	UG/L	33	24%	GA	1	10	13	55
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55
Cyclohexane	UG/L	8.6	8%			0	4	50
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35
Methyl cyclohexane	UG/L	4.2	8%			0	4	50
Methyl ethyl ketone	UG/L	9	13%			0	7	55
Naphthalene	UG/L	0.23	20%			0	1	5
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35
Toluene	UG/L	14	7%	GA	5	1	4	55
Total Xylenes	UG/L	62	5%	GA	5	1	1	20
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55
Semivolatile Organic Compounds								
Acenaphthene	UG/L	0.5	6%			0	1	18
Acenaphthylene	UG/L	2	22%			0	4	18
Anthracene	UG/L	1	6%			0	1	18
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18
Butylbenzylphthalate	UG/L	2	6%			0	1	18
Naphthalene	UG/L	2	6%			0	1	18
Other Analytes								
Iron	UG/L	15700	87%	GA	300	31	46	53
Sodium	UG/L	41900	100%	GA	20000	7	53	53
Chloride	MG/L	59	72%	GA	250000	0	38	53
Ethane	UG/L	1.1	9%			0	5	53
Ethene	UG/L	4.6	9%			0	5	53
Methane	UG/L	170	38%			0	20	53
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24
NITRITE	MG/L	0.73	21%			0	5	24
Nitrate Nitrogen	MG/L	1	45%			0	13	29
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29
Sulfate	MG/L	182	100%	GA	250000	0	53	53
Conductivity	mS/cm	0.858	100%			0	52	52
Dissolved Oxygen	MG/L	8.46	100%			0	49	49
ORP	mV	259	73%			0	38	52
Sulfide	MG/L	1.04	84%			0	43	51
Temperature	deg C	26.55	100%			0	52	52
Turbidity	NTU	195	100%			0	52	52
pH	Std units	7.69	100%			0	52	52

Table 7
Summary of SEAD-25 Geochemical Parameters
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Well ID	Date	Round	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 [1]	4/12/06	1	6.29	-11	10.5	16.1	7.17	0.551	2510	4730	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	666.5	5600 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	2.6 J	6	4	0.24	4.2	170	0.5	0.5	22	
	3/4/08	4	1.35	-60	3.2	2.78	7.15	0.64	711	3460	0.2 U	0.305 J	0.305	31.1	1 U	1 U	3.2 J	0
	4/29/09 [1]	5	0.11	-115	8.1	0.9	6.84	0.702	15050	7100	2.2	0.05 U	0.01 U	79.2	1 U	1 U	66	0.04
	1/12/10	6	0.41	-151	6.3	1.06	7.25	0.573	2655	7800	2.8	0.199 J	0.007 UJ	64.4 J	0.16 U	0.17 U	20	0.16
MW25-3	1/31/06	1	1.19	79	4.3	2.2	7.1	0.49	86	12300	2.1	0.05 U	0.05 U	39.9	2 U	2 U	2 U	0.04
	1/31/06	1	1.19	79	4.3	2.2	7.1	0.49	76.4	12000	2.3	0.05 U	0.05 U	39.8	2 U	2 U	2 U	0.04
	8/11/06	2	3.6	77.9	21.54	1.2	7.02	0.686	3820	11300 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	5540	2.66	0.098 J	0.098	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	1570	9000	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	7370	2.8	0.05 UJ	0.007 UJ	182 J	0.16 U	0.17 U	0.14 U	0.04
MW25-8	1/31/06	1	0.84	-70	4.1	2.4	7.3	0.494	329	5110	1.4	0.05 U	0.05 U	19.5	2 U	2 U	2 U	0.04
	8/11/06	2	2.92	33.4	25.01	8.7	6.97	0.72	667	7060 J	0.73 J	0.13	0.05 U	28.2	2 U	2 U	2 U	0.09
	3/4/08	4	2.21	61	2.7	5.1	7.46	0.427	349	4180	0.2 U	0.607 J	0.607	17.3	1 U	1 U	0.36 J	0.03
	4/29/09 [2, 3]	5	-	-	-	-	-	-	620	6000	3.2	0.05 U	0.016	20.7	1 U	1 U	16	0.01
	1/12/10	6	2.67	230	4.7	2.2	7.36	0.342	408	9740	0.5 U	0.05 U	0.007 U	35.2 J	0.16 U	0.17 U	0.14 U	0.03
MW25-9	1/31/06	1	5.33	91	4.8	2.49	7.15	0.535	56.9	14500	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	16400 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	8380	0.2 U	0.05 UJ	0.05	24.8	1 U	1 U	2.4 J	0
	4/29/09 [2, 3]	5	-	-	-	-	-	-	9440	26000	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	16500	0.5 U	0.05 UJ	0.007 UJ	35.3 J	0.16 U	0.17 U	0.14 U	0.01
MW25-10	1/31/06	1	4.22	107	5	1.09	6.97	0.464	62.8	8870	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	6530 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	6090	0.2 U	0.102 J	0.102	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	6420	2.1	0.05 UJ	0.007 UJ	27.1 J	0.21 U	0.22 U	0.14 U	0.09
MW25-13	1/31/06	1	0.94	38	3.8	21	7.27	0.492	320	40600	2.5	0.05 U	0.05 U	15.6	2 U	2 U	2 U	0.02
	8/9/06	2	4.1	-22.2	23.42	100	6.98	0.699	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/3/08	4	4.79	97	3	16.4	7.52	0.639	NS	NS	NS	NS	NS	NS	NS	0.639	NS	0
MW25-15	1/31/06	1	2.93	82	5.3	1.1	7.2	0.36	56	3080	0.66	0.05 U	0.05 U	14.4	2 U	2 U	2 U	0
	8/14/06	2	1.99	222.1	18.76	27.4	5.8	0.651	850	6630 J	1.4 J	0.05 U	0.087	17.9	2 U	2 U	2 U	0.8
	3/3/08	4	4.57	139	4.7	3.58	7.25	0.477	100 U	6340	0.2 U	0.16 J	0.16	13.3	1 U	1 U	2 U	0
	4/29/09 [3]	5	-	111	14.37	6.1	7	0.283	30 J	3500	0.2 U	0.05 U	0.01 U	20.3	1 U	1 U	2 U	0
	1/13/10 [3]	6	-	213	6.1	1.5	7.23	0.38	769	3620	0.5 U	0.05 U	0.007 U	24.8 J	0.16 U	0.17 U	0.14 U	0.17
MW25-17	1/31/06	1	8.46	68	6.3	3.4	7.69	0.462	46.1	4240	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	8.8 U	5170 J	1.4 J	0.11	0.05 U	16.3	2 U	2 U	2 U	0
	6/7/07 [1]	3	0.31	134	13.2	12	7.2	0.418	0.44 J	8.5 J	3.6	0.23	1.3	6.55	0.615 UJ	3.44 J	18.5	0.06
	3/4/08 [1]	4	8.24	155	6	2.03	7.3	0.532	100 U	4550	0.2 U	0.798 J	0.798	19.6	1 U	1 U	2 U	0.01
	4/28/09	5	7.45	192	7.2	1.2	7.31	0.379	160	4700	0.2 U	0.05 U	0.01 U	17.3	1 U	1 U	2 U	0
	1/14/10	6	6.79	211	8.1	1.4	7.29	0.418	86.9 J	4450	2.5	0.245 J	0.007 U	16.7 J	0.21 U	0.22 U	0.14 U	0
MW25-18	1/31/06	1	3.99	63	7.2	31.8	7.62	0.494	462	22300	18.6	0.05 U	0.05 U	24.8	2 U	2 U	2 U	0.12
	8/14/06	2	6.21	46	24.41	6.22	7.32	0.858	357	41900 J	55.6	0.32	0.05 U	30.1	2 U	2 U	2 U	0.02
	6/6/07	3	0.96	98	13	11	7.15	0.54	0.5 J	37 J	59	0.024 J	2	2	0.5	1.5 J	31	1.04
	3/5/08	4	4.68	144	4.9	5.04	7.31	0.713	107	20400	18	0.199 J	0.199	16.8	1 U	1 U	2 U	0.01
	1/14/10	6	4.39	237	8	2.78	7.28	0.544	122	28400	51.7	0.2 J	0.007 U	26.8 J	0.16 U	0.17 U	0.14 U	0.06
MW25-19	6/7/07	3	0.05	117	13.4	17	7.04	0.427	1.2 J	3.8 J	4.5	1.1	4.6	29	0.72 J	1.4 J	23	0.1
	3/3/08	4	5.84	161	5.8	16.4	7.23	0.478	515	4520	0.2 U	2 U	0.194 J	0.194	24.3	0.478	2 U	0.01
	1/13/10	6	4.01	259	8	6.1	7.08	0.445	204	4350	2.3	0.113 J	0.007 UJ	31 J	0.16 U	0.17 U	0.14 U	0.02

Note:
NS = not sampled - = geo parameter was not measured
1. Duplicate samples have been averaged
2. Insufficient water volume to fill flow cell prior to sample collection.
3. Well was pumped dry and sampled the following day after recharge.

FIGURES



PARSONS

SENECA ARMY DEPOT ACTIVITY
SEAD-25 ANNUAL REPORT

Figure 1
Location of SEAD-25

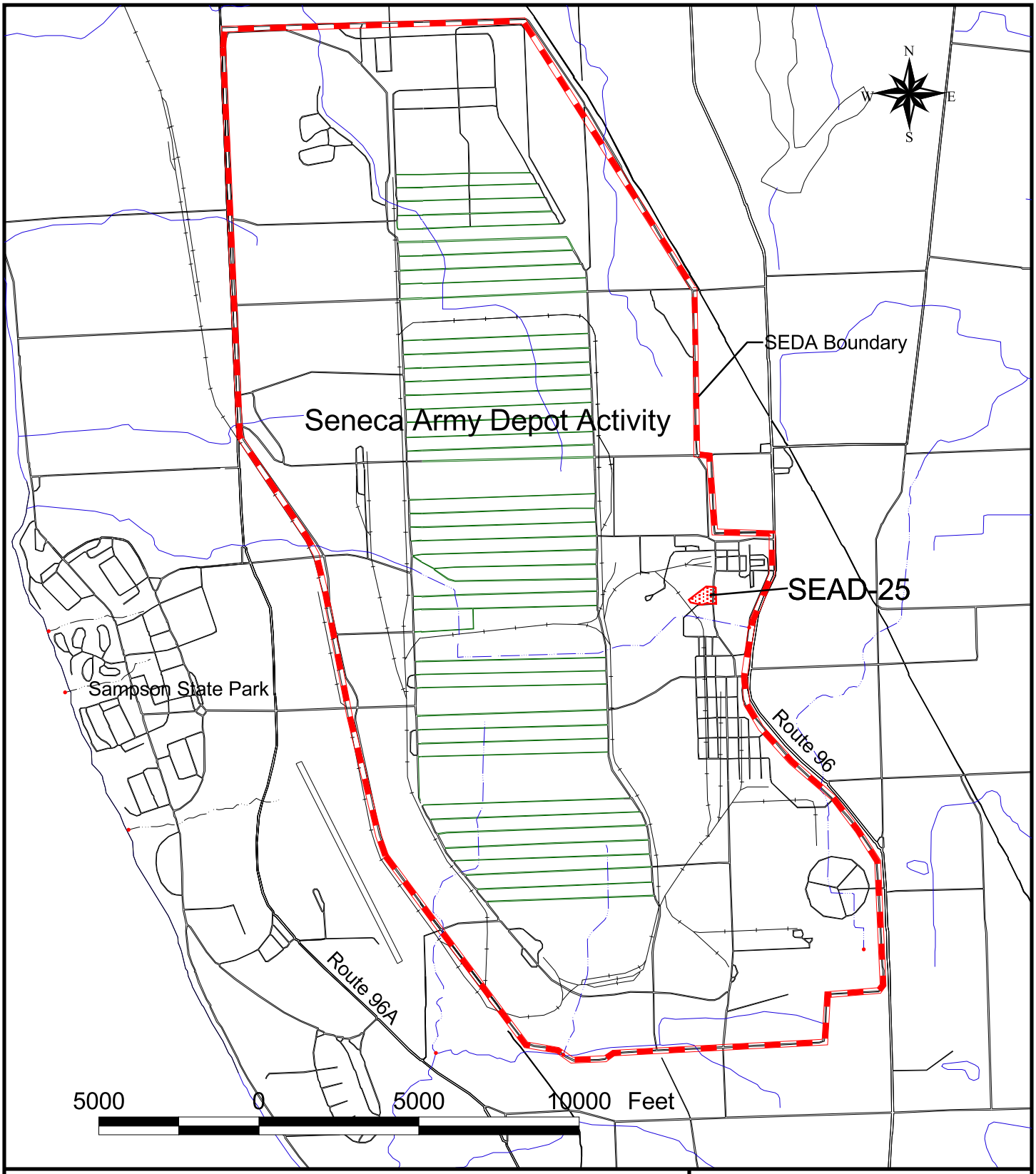
July 2010

Seneca Army Deport Boundary

Planned Industrial /Office Development (PID) Area Boundary

SEAD-25 Boundary

O:\Seneca\Depot Survey\land_use_plan_Dec-07.apr



Approximate Boundary and extent of SEAD-25

Approximate Boundary of SEDA Site

PARSONS

CLIENT / PROJECT TITLE

SENECA ARMY DEPOT

ROMULUS, NEW YORK

SEAD-25 ANNUAL REPORT

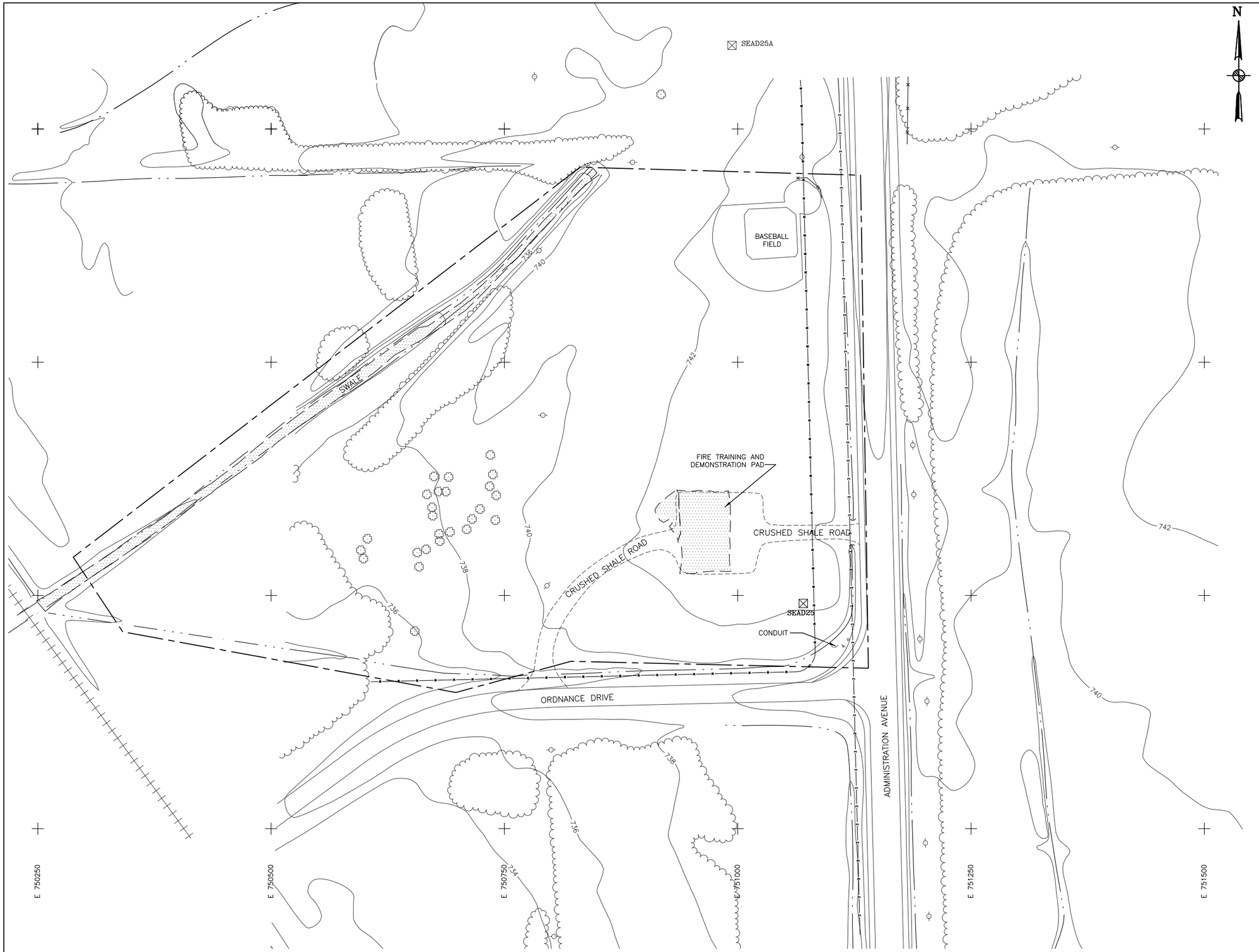
DEPT: ENVIRONMENTAL REMEDIATION

Figure 2

SEDA Site Map and AOC Location

DATE: SEPTEMBER 2010

o:\senecalsead2526\2526prap.apr\Annual Report Location



LEGEND

- DRAINAGE DITCH
- FENCE
- UNPAVED ROAD
- SEAD 25 BOUNDARY
- BRUSH LINE
- RAILROAD
- 760 — GROUND SURFACE ELEVATION CONTOUR
- UNDERGROUND ELECTRIC UTILITY LINE
- UNDERGROUND WATER UTILITY LINE
- ROAD SIGN
- OVERHEAD UTILITY POLE
- HYDRANT
- MANHOLE
- UTILITY BOX
- DECIDOUS TREE
- COORD. GRID (250' GRID)
- POLE
- SEAD-25 — SURVEY MONUMENT
- NOV/DEC 2005 REMEDIATED AREAS

NOTES:

1. TOPOGRAPHY BASED ON AERIAL SURVEY BY:

   LOCKWOOD SURVEY
   36 KARLAN DRIVE
   ROCHESTER NEW YORK

2. HORIZONTAL DATUM IS BASED ON NAD83 PER SENECA ARMY DEPOT SEAD 25A MONUMENTS SURVEY CONTROL COORDINATES DATED 1994.

3. VERTICAL DATUM IS BASED ON NAD88.

50 0 50 100
(feet)

PARSONS

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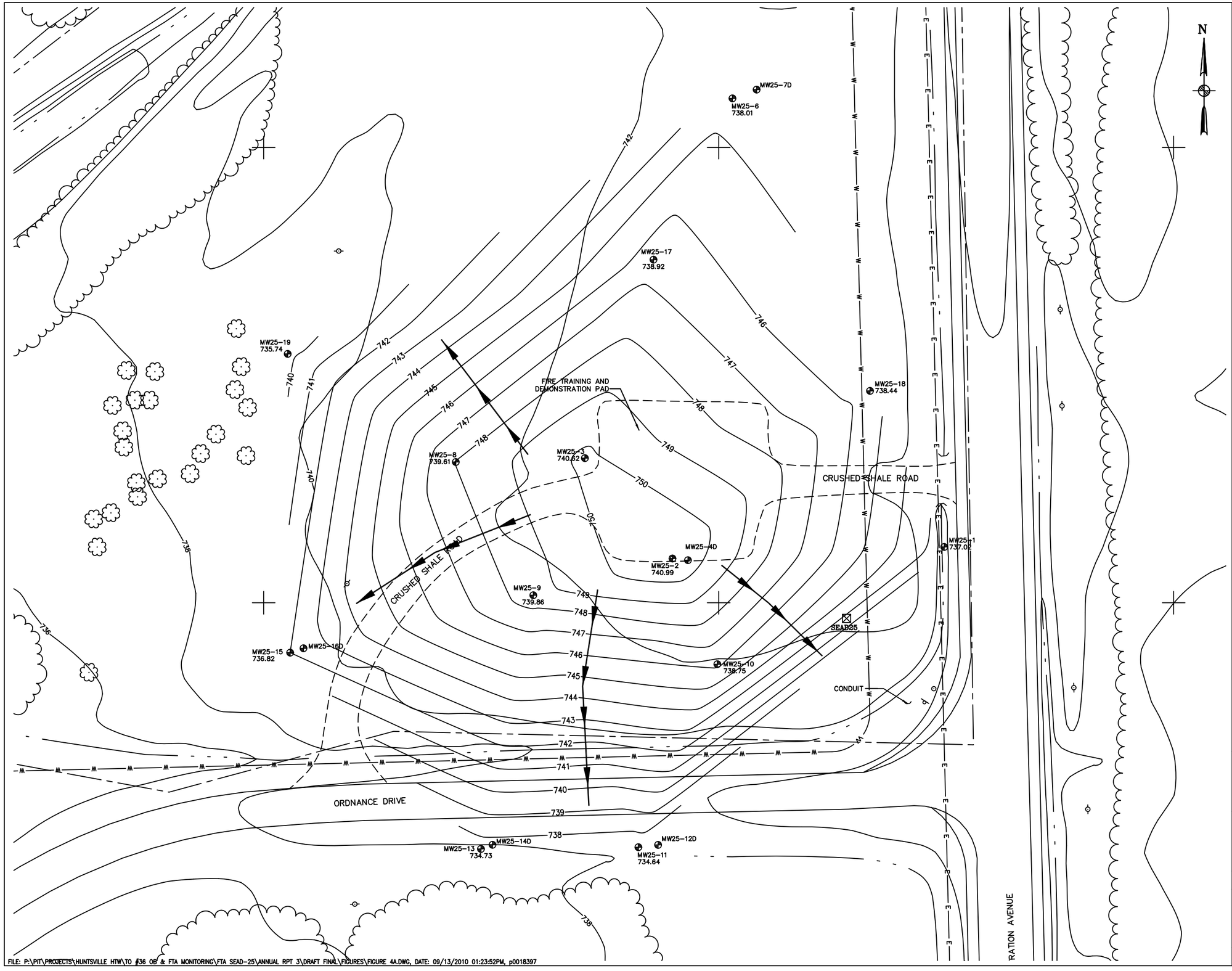
SENECA ARMY DEPOT
ROMULUS, NEW YORK
SEAD-25 ANNUAL REPORT

DEPT. ENVIRONMENTAL ENGINEERING | Dwg. No.

FIGURE 3
SEAD-25 SITE PLAN

SCALE AS SHOWN | DATE SEPTEMBER 2010 | REV

FILE: P:\PIT\PROJECTS\HUNTSVILLE HTW\TO #36 OB & FTA MONITORING\FTA SEAD-25\ANNUAL RPT 3\DRAFT FINAL\FIGURES\FIGURE 3.DWG, DATE: 09/13/2010 01:11:13PM, p0018397



PARSONS

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT

ROMULUS, NEW YORK

SEAD-25 ANNUAL REPORT

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	

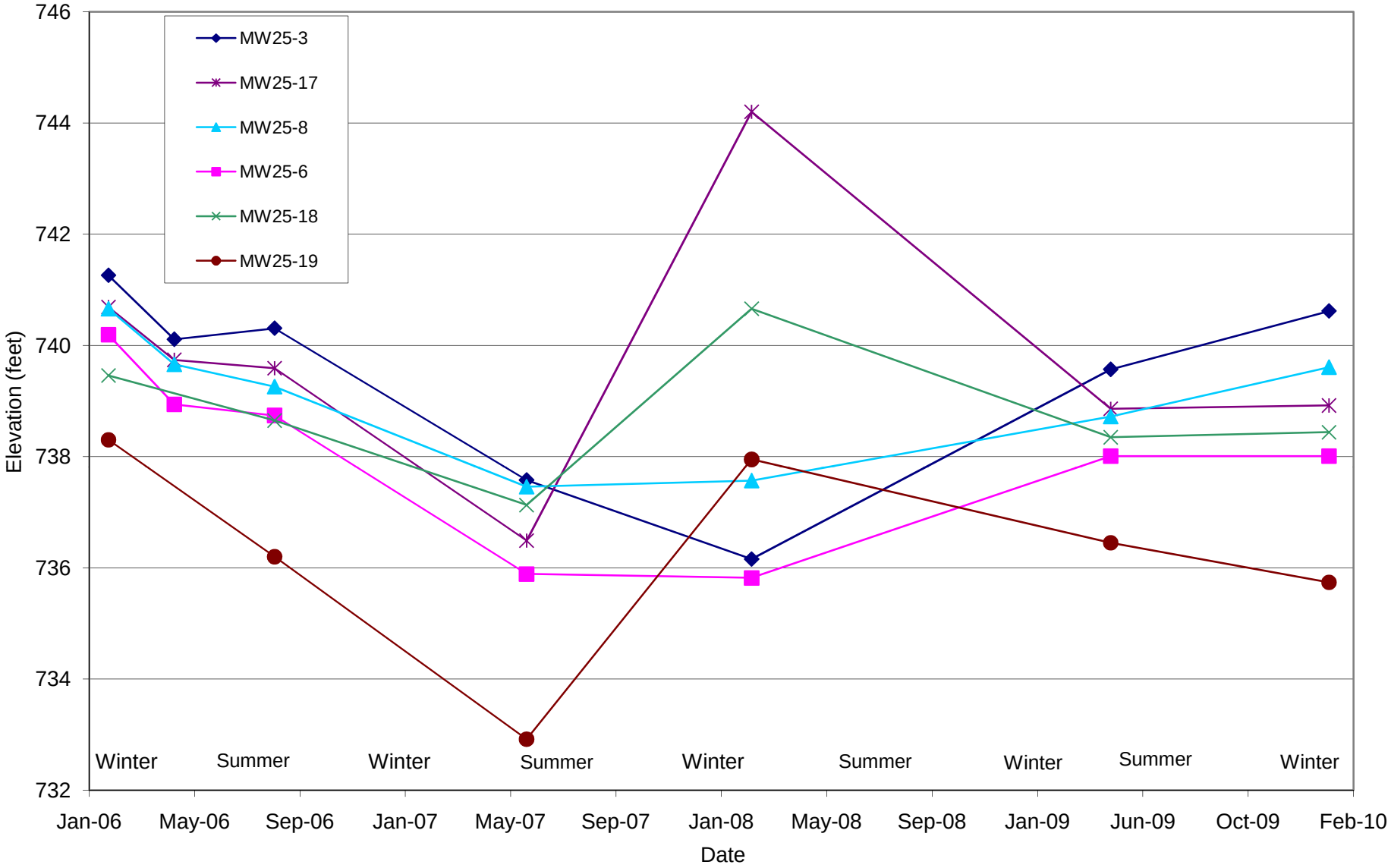
FIGURE 4

SEAD-25 GROUNDWATER CONTOURS FOR THE TILL WEATHERED SHALE SATURATED ZONE-JAN. 2010

SCALE	DATE	REV
AS SHOWN	SEPTEMBER 2010	

FILE: P:\PIT\PROJECTS\HUNTSVILLE HTW\TO #36 OB & FTA MONITORING\FTA SEAD-25\ANNUAL RPT 3\DRAFT FINAL\FIGURES\FIGURE 4A.DWG, DATE: 09/13/2010 01:23:52PM, p0018397

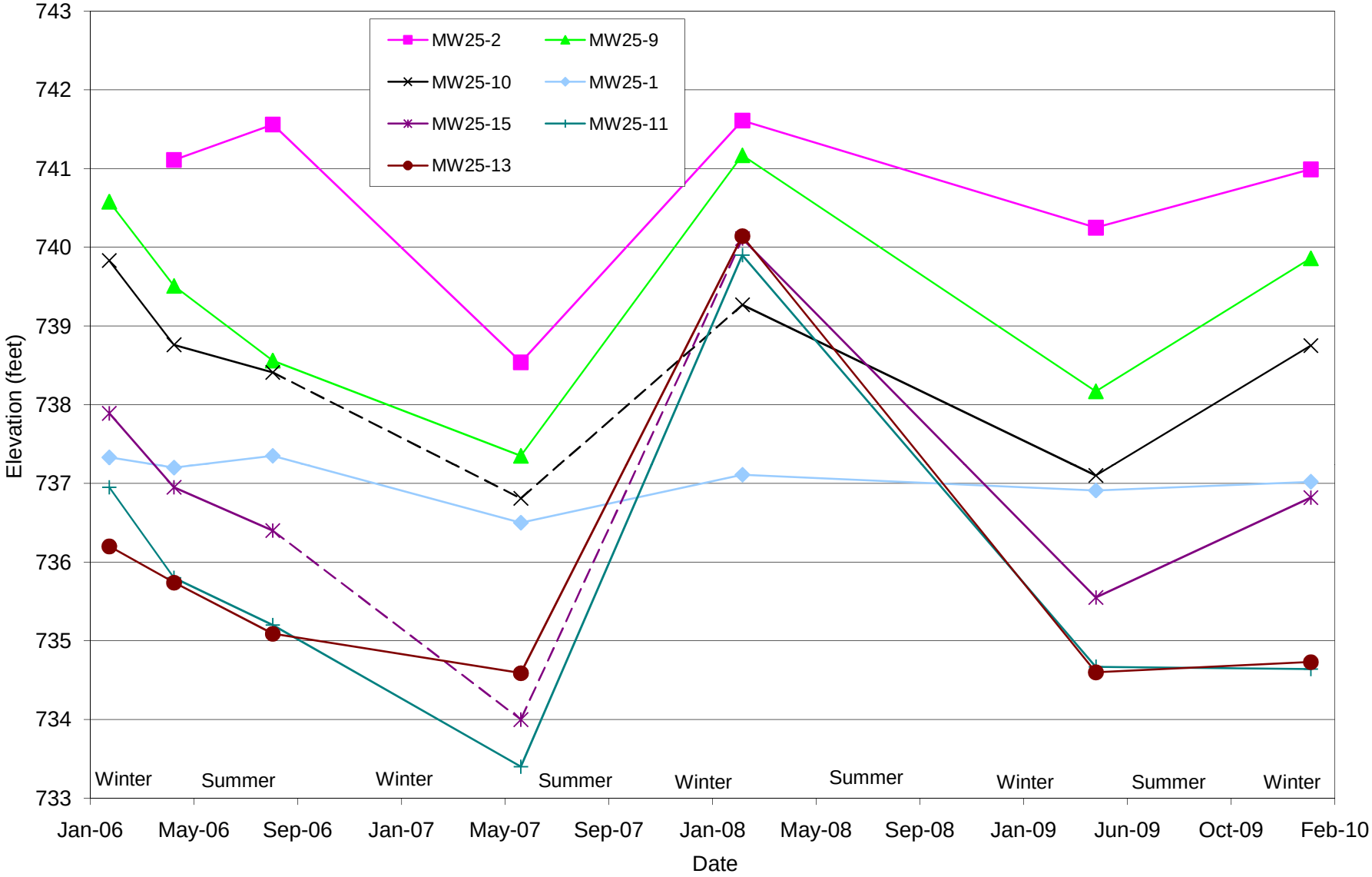
Figure 5A
SEAD-25 Groundwater Elevation - Northern Profile
SEAD-25 Annual Report
Seneca Army Depot Activity



Note: Groundwater elevation was measured on the following dates: January 24, 2006, April 4, 2006, August 9, 2006, June 4, 2007, February 26, 2008, April 27, 2009, and January 11, 2010.
MW25-18 and MW25-19 groundwater elevations were not measured on April 4, 2006.

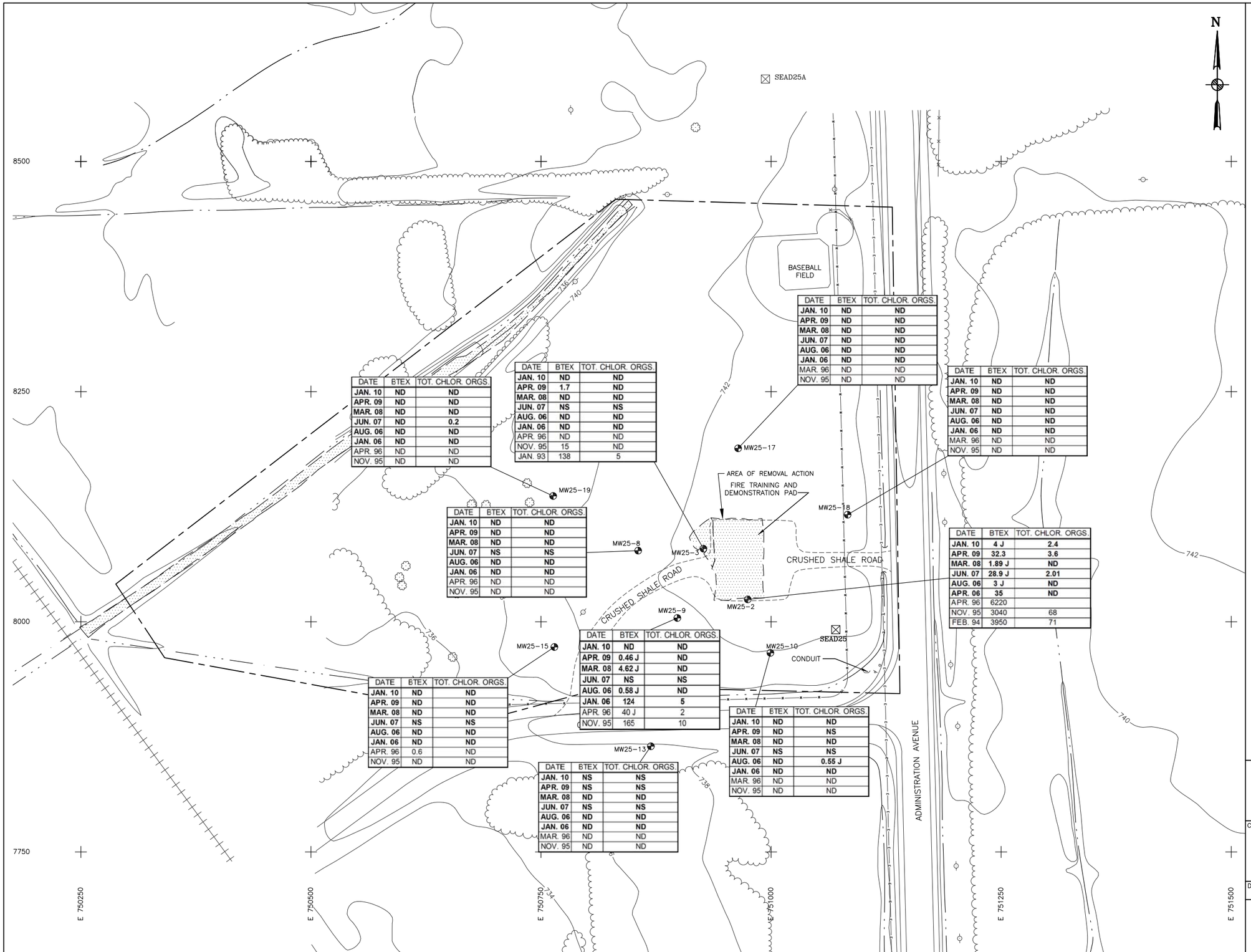
P:\PIT\Projects\Huntsville HTW\TO #36 OB & FTA Monitoring\FTA SEAD-25\Annual Rpt 3\Draft Final\Figures\Figure 5 - GW Elev Trends.xls\S-25 GW Elev North Profile

Figure 5B
SEAD-25 Groundwater Elevation - Southern Profile
SEAD-25 Annual Report
Seneca Army Depot Activity



Note: Groundwater elevation was measured on the following dates: January 24, 2006, April 4, 2006, August 9, 2006, June 4, 2007, February 26, 2008, April 27, 2009, and January 11, 2010.
MW25-10 and MW25-15 were dry during the June 6, 2007 sampling event and the bottom of the well elevation are ~736.8 ft and ~734 ft, respectively.

P:\PIT\Projects\Huntsville HTW\TO #36 OB & FTA Monitoring\FTA SEAD-25\Annual Rpt 3\Draft Final\Figures\Figure 5 - GW Elev Trends.xls\S-25 GW Elev South profile Fig



DATE	BTEX	TOT. CHLOR. ORGS.
JAN. 10	ND	ND
APR. 09	ND	ND
MAR. 08	ND	ND
JUN. 07	ND	0.2
AUG. 06	ND	ND
JAN. 06	ND	ND
APR. 96	ND	ND
NOV. 95	ND	ND

DATE	BTEX	TOT. CHLOR. ORGS.
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	ND
JAN. 93	138	5

DATE	BTEX	TOT. CHLOR. ORGS.
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

DATE	BTEX	TOT. CHLOR. ORGS.
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

DATE	BTEX	TOT. CHLOR. ORGS.
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

DATE	BTEX	TOT. CHLOR. ORGS.
JAN. 10	4 J	2.4
APR. 09	32.3	3.6
MAR. 08	1.89 J	ND
JUN. 07	28.9 J	2.01
AUG. 06	3 J	ND
APR. 06	35	ND
APR. 96	6220	
NOV. 95	3040	68
FEB. 94	3950	71

DATE	BTEX	TOT. CHLOR. ORGS.
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
APR. 96	40 J	2
NOV. 95	165	10

DATE	BTEX	TOT. CHLOR. ORGS.
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

DATE	BTEX	TOT. CHLOR. ORGS.
JAN. 10	ND	ND
APR. 09	ND	ND
MAR. 08	ND	ND
JUN. 07	NS	NS
AUG. 06	ND	ND
JAN. 06	ND	ND
MAR. 96	ND	ND
NOV. 95	ND	ND

DATE	BTEX	TOT. CHLOR. ORGS.
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

DATE	BTEX	TOT. CHLOR. ORGS.
JAN. 10	ND	ND
APR. 09	ND	NS
MAR. 08	ND	ND
JUN. 07	NS	NS
AUG. 06	ND	0.55 J
JAN. 06	ND	ND
MAR. 96	ND	ND
NOV. 95	ND	ND

LEGEND

- DRAINAGE DITCH
- FENCE
- UNPAVED ROAD
- SEAD 25 BOUNDARY
- BRUSH LINE
- RAILROAD
- 760 — GROUND SURFACE ELEVATION CONTOUR
- E E E E — UNDERGROUND ELECTRIC UTILITY LINE
- W W W W — UNDERGROUND WATER UTILITY LINE
- ROAD SIGN
- OVERHEAD UTILITY POLE
- HYDRANT
- MANHOLE
- UTILITY BOX
- DECIDOUS TREE
- COORD. GRID (250' GRID)
- POLE
- SEAD-25 — SURVEY MONUMENT
- MW25-2 — MONITORING WELL DESIGNATION
- NOV/DEC 2005 REMEDIATED AREAS

DATE	BTEX	TOT. CHLOR. ORGS.
JUN. 07	29.9	2.01
AUG. 06	3	ND
APR. 06	35	ND
NOV. 95	3040	68
FEB. 94	3950	71

CONTAMINANT CONCENTRATIONS OF BTEX (BENZENE, TOLUENE, ETHYL BENZENE AND TOTAL XYLENES) AND TOTAL CHLORINATED ORGANICS (ug/L) APR 96, NOV 95, FEB 94, & JAN 93 ARE PRE-REMEDIATION. ALL OTHER ROUNDS (BOLD) ARE POST-REMEDIATION

ND — NON-DETECT

NS — NOT SAMPLED DUE TO LOW GROUNDWATER LEVELS

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.

50 0 50 100
(feet)

PARSONS

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT
ROMULUS, NEW YORK
SEAD-25 ANNUAL REPORT

DEPT. ENVIRONMENTAL ENGINEERING | Dwg. No.

FIGURE 6
VOCS DETECTED IN GROUNDWATER AT SEAD-25

SCALE AS SHOWN | DATE SEPTEMBER 2010 | REV

FILE: P:\PIT\PROJECTS\HUNTSVILLE HTW\TO #36 OB & FTA MONITORING\FTA SEAD-25\ANNUAL RPT 3\DRAFT FINAL\FIGURES\FIGURE 6.DWG, DATE: 09/13/2010 01:14:41PM, p0018397

Figure 7A
Concentrations of BTEX Over Time at MW25-2
SEAD-25 Annual Report
Seneca Army Depot Activity

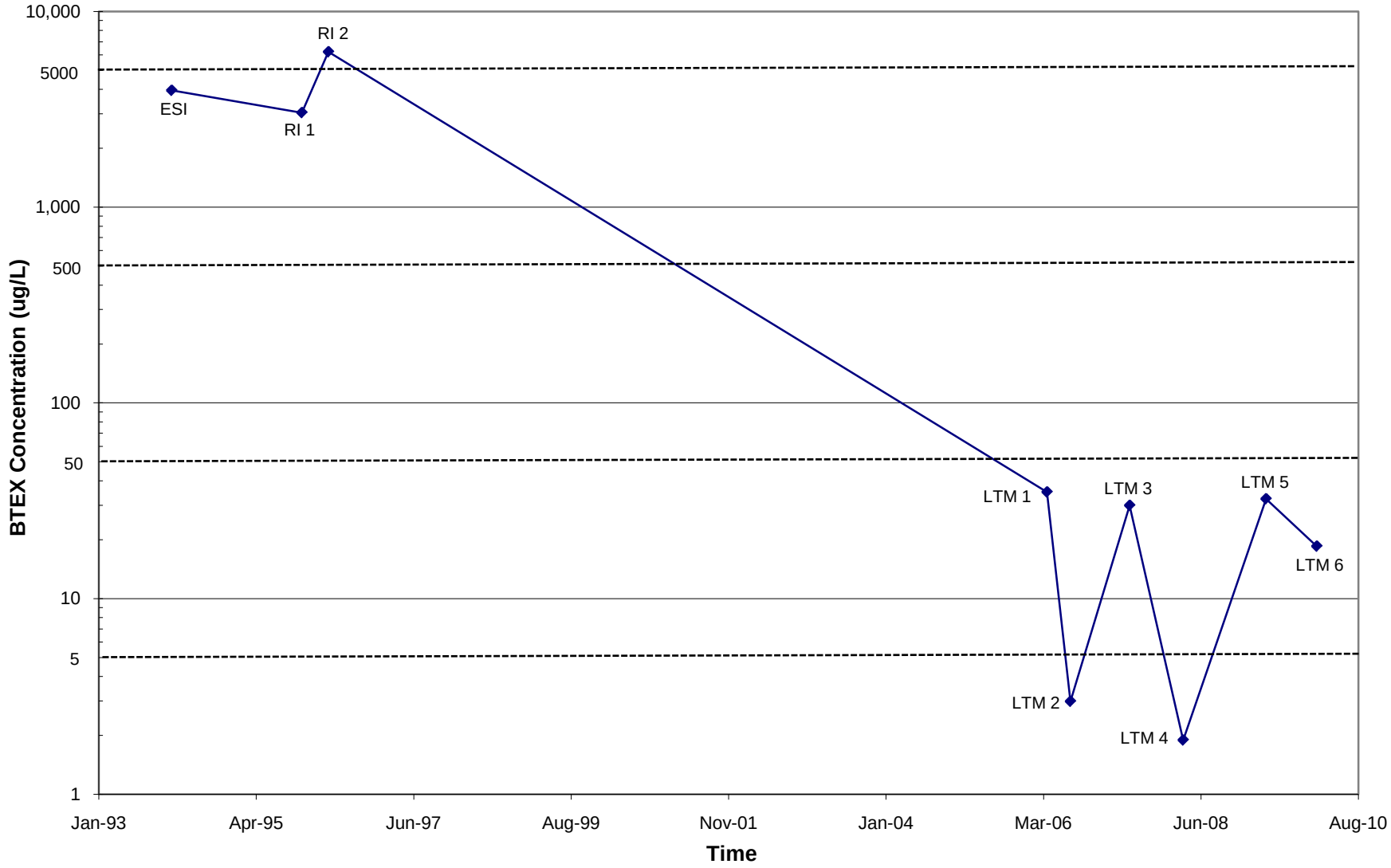
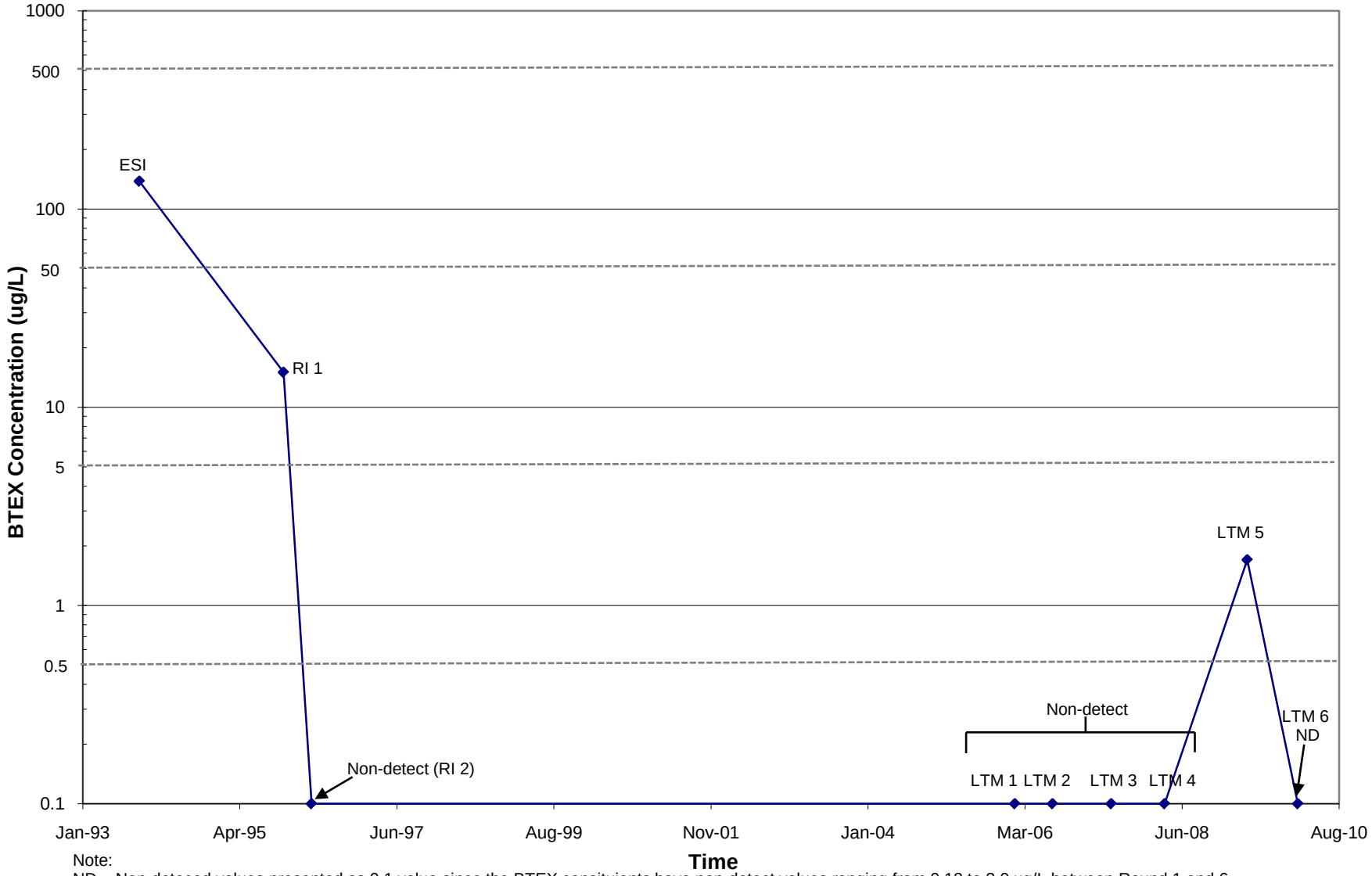
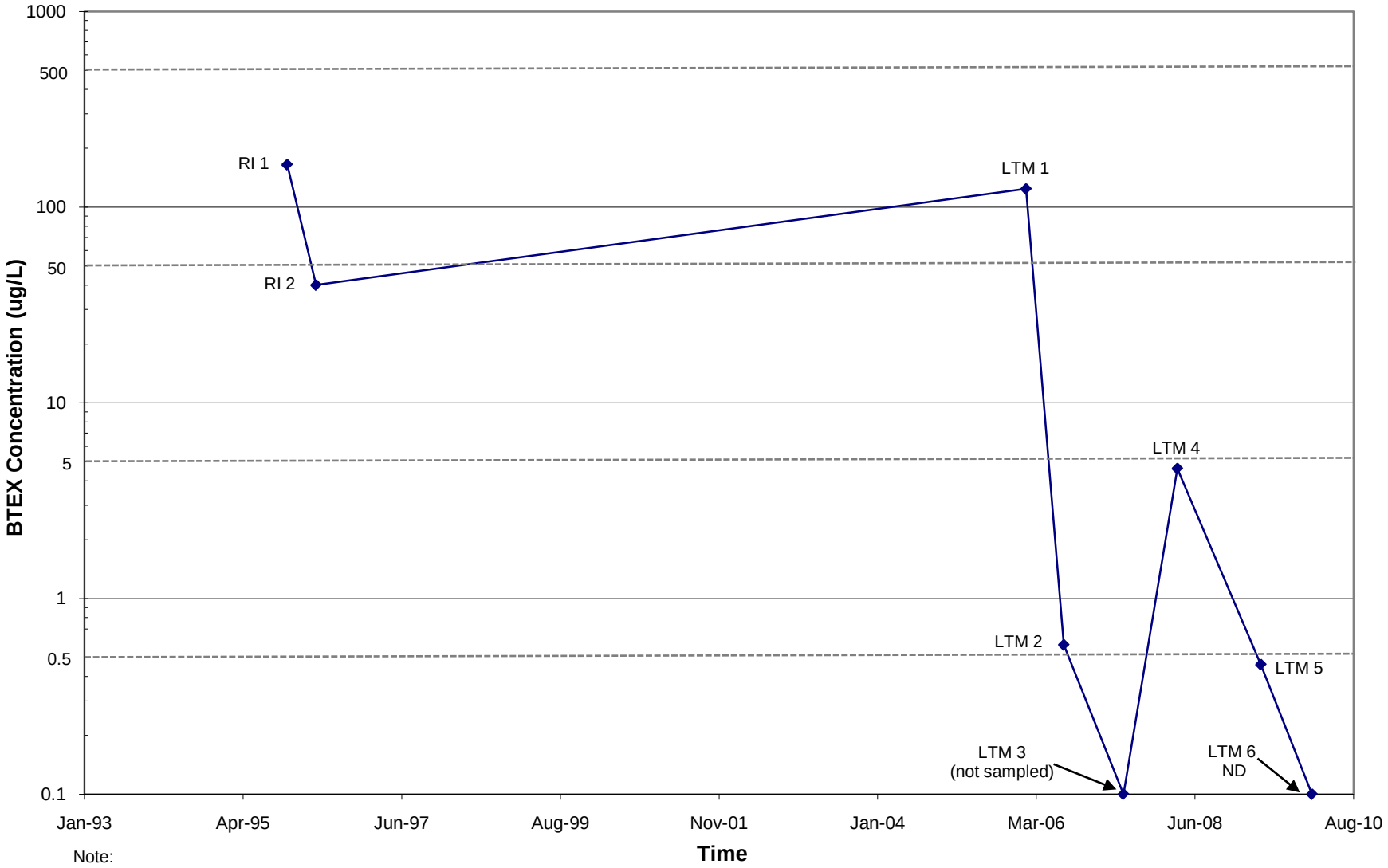


Figure 7B
Concentrations of BTEX Over Time at MW25-3
SEAD-25 Annual Report
Seneca Army Depot Activity



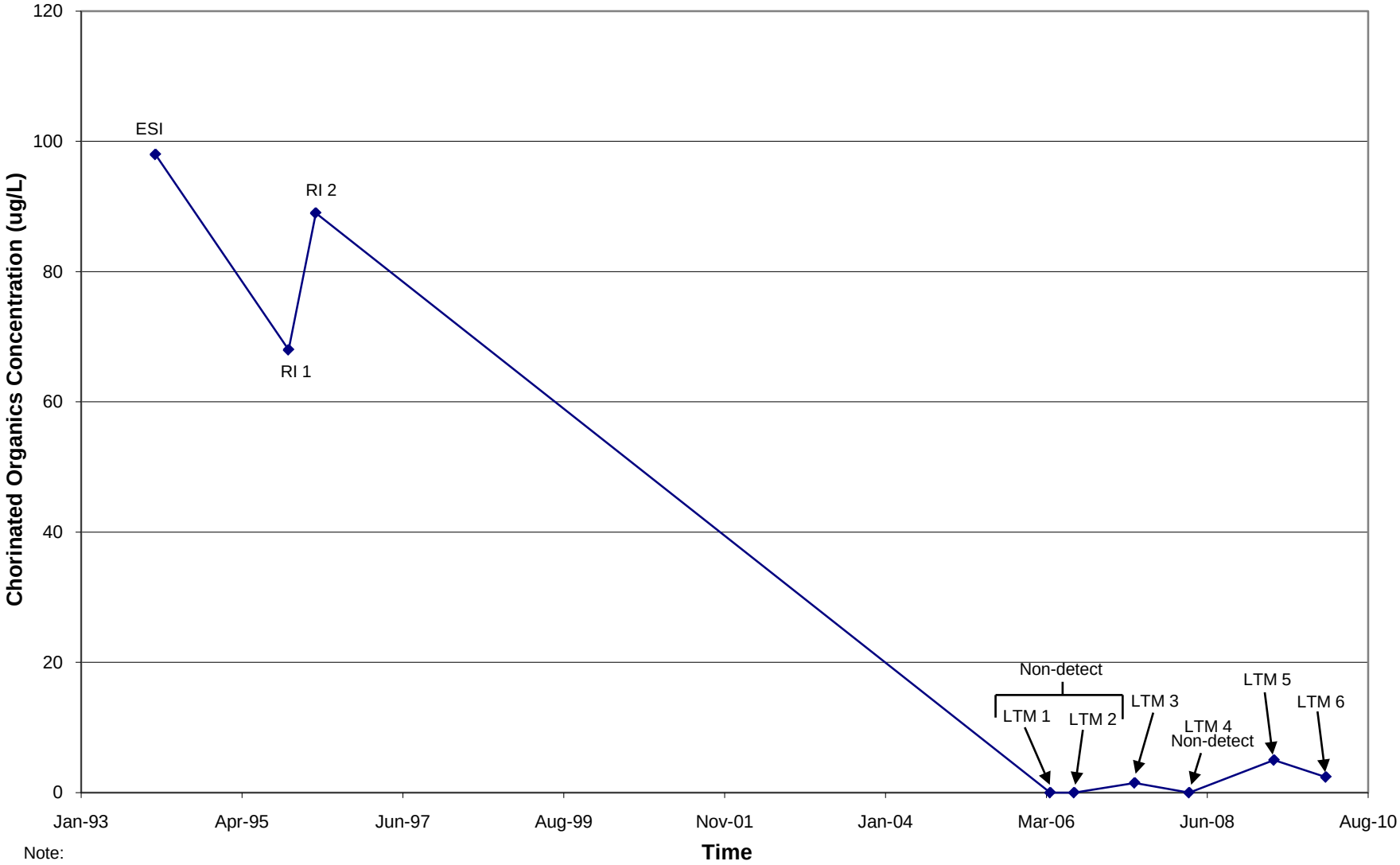
Note:
ND = Non-deteced values presented as 0.1 value since the BTEX consituients have non-detect values ranging from 0.18 to 3.0 ug/L between Round 1 and 6.

Figure 7C
Concentrations of BTEX Over Time at MW25-9
SEAD-25 Annual Report
Seneca Army Depot Activity



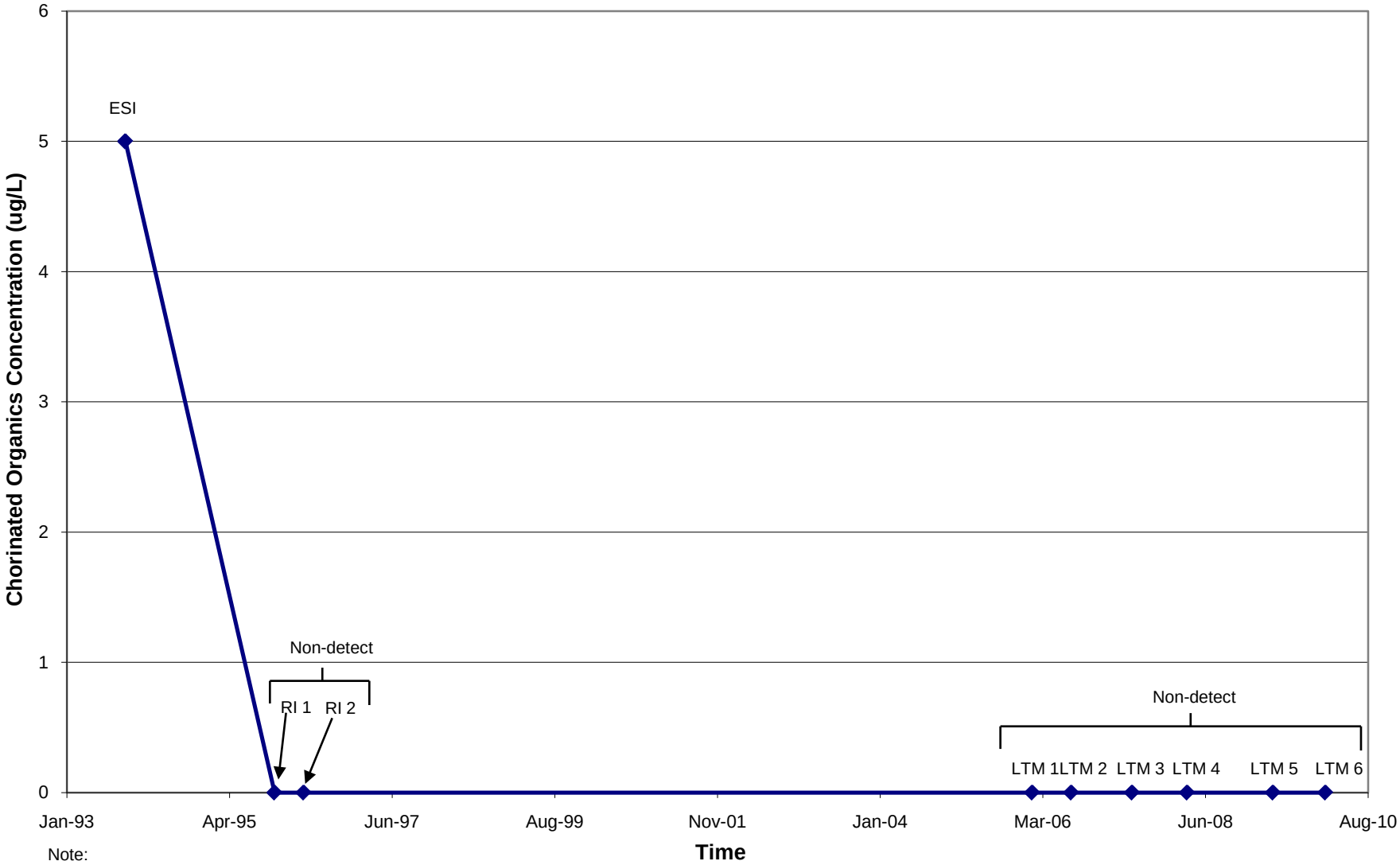
Note:
Non-deteced values presented as 0.1 value since the BTEX consituients have non-detect values ranging from 0.18 to 3.0 ug/L between Round 1 and 6.

Figure 8A
Chlorinated VOC Concentrations at MW25-2
SEAD-25 Annual Report
Seneca Army Depot Activity



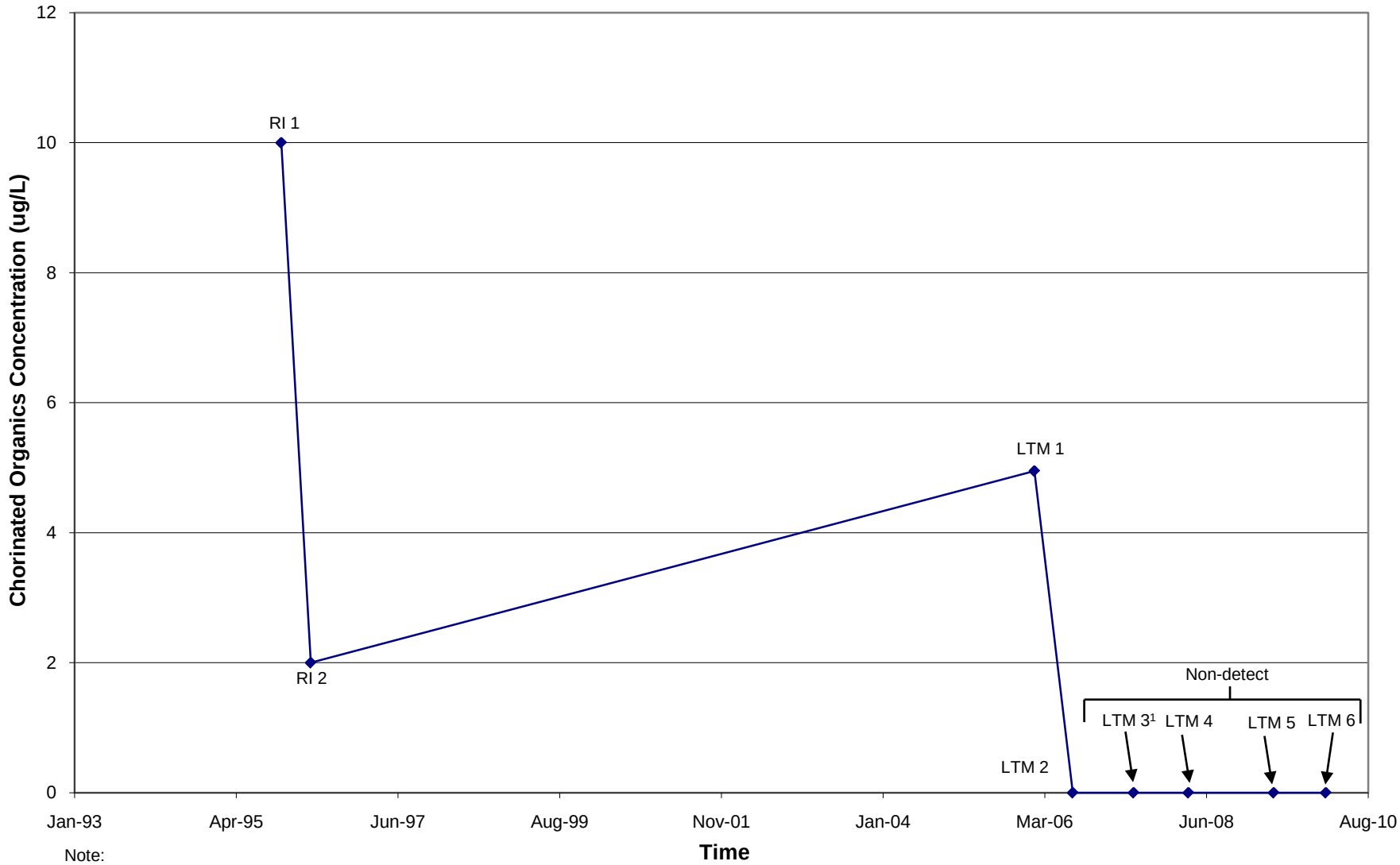
Note:
Non-deteced values presented as zero value since multiple analytes make up the Chlorinated Organic concentrations.

Figure 8B
Chlorinated VOC Concentrations at MW25-3
SEAD-25 Annual Report
Seneca Army Depot Activity



Note:
Non-deteced values presented as zero value since multiple analytes make up the Chlorinated Organic concentrations.

Figure 8C
Chlorinated VOC Concentrations at MW25-9
SEAD-25 Annual Report
Seneca Army Depot Activity



Note:
Non-deteced values presented as zero value since multiple analytes make up the Chlorinated Organic concentrations.

Note:
1. LTM 3 was not sampled

Figure 9A
Concentrations of Detected Chemicals of Concern in MW25-2 (Near Former Source)
SEAD-25 Annual Report
Seneca Army Depot Activiy

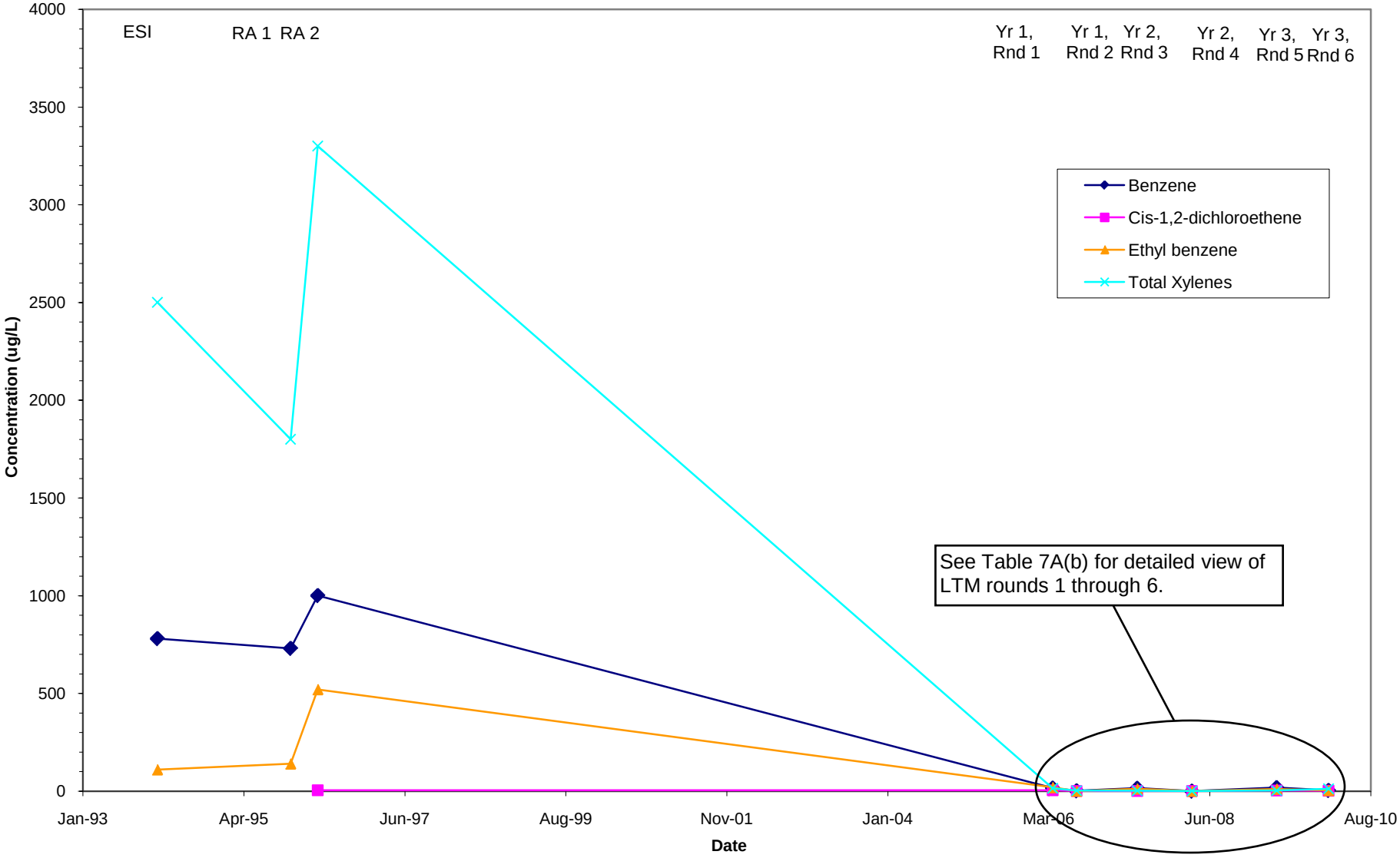
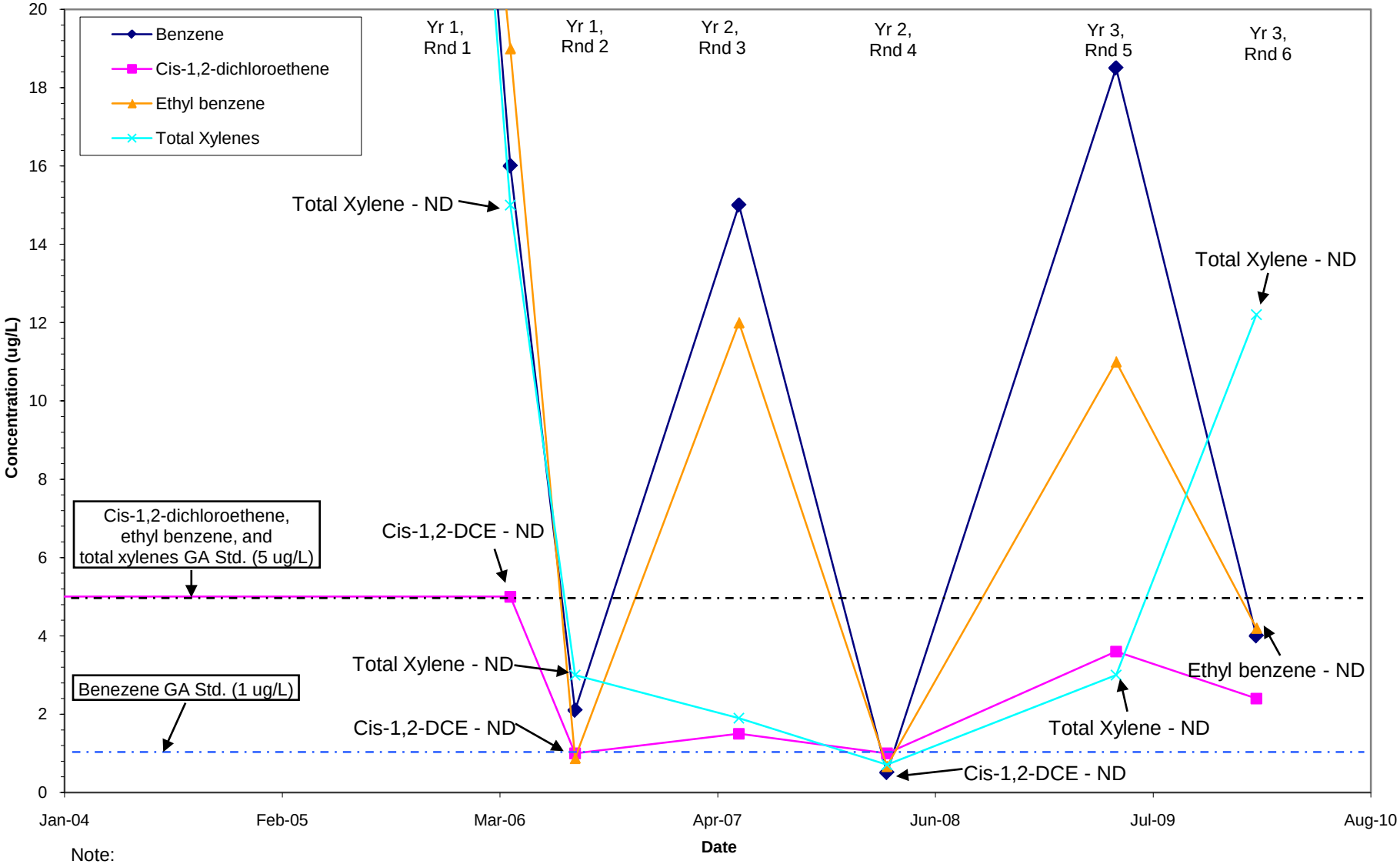
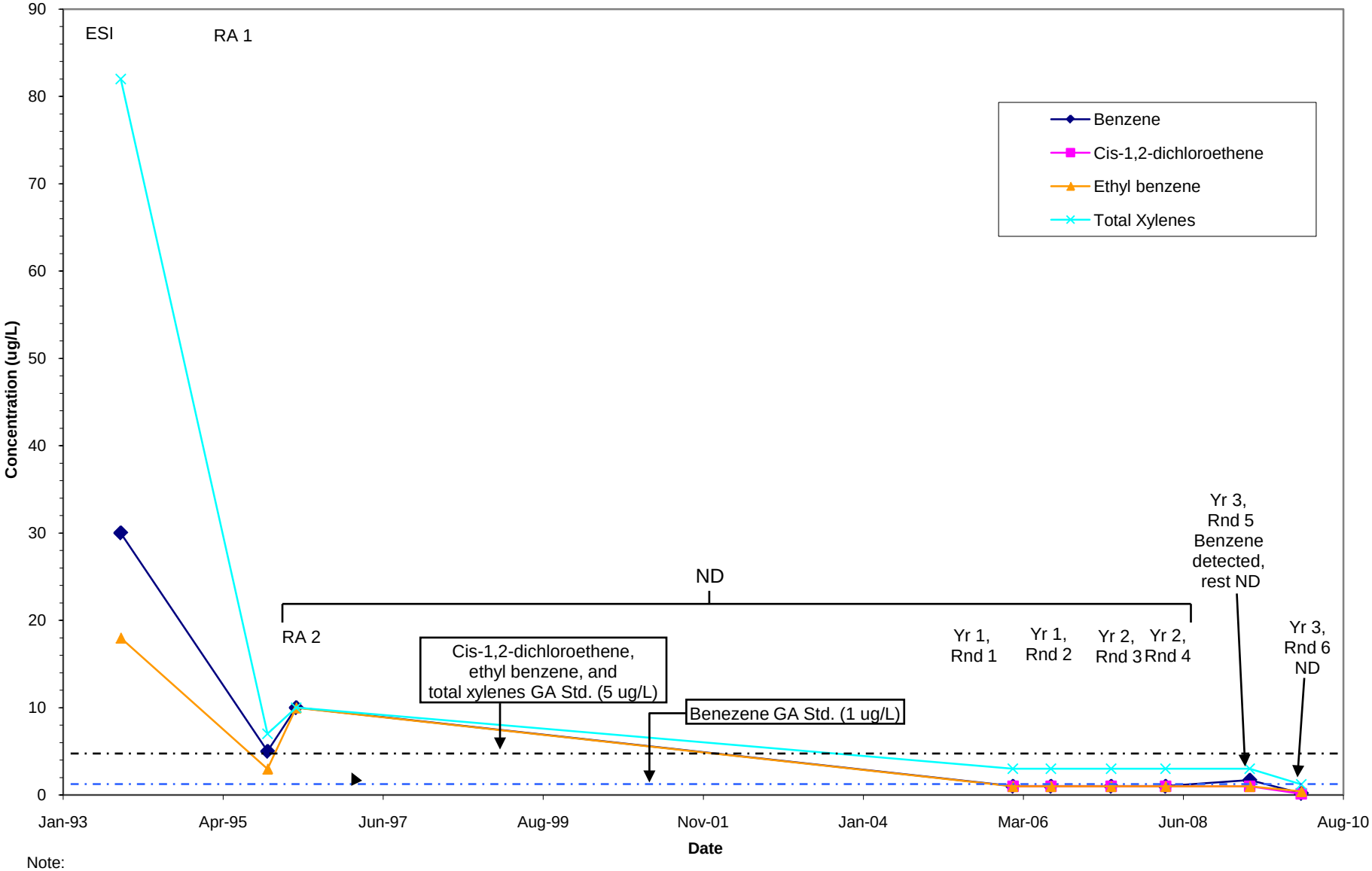


Figure 9A(b)
Concentrations of Detected Chemicals of Concern in MW25-2 (Near Former Source)
SEAD-25 Annual Report
Seneca Army Depot Activiy



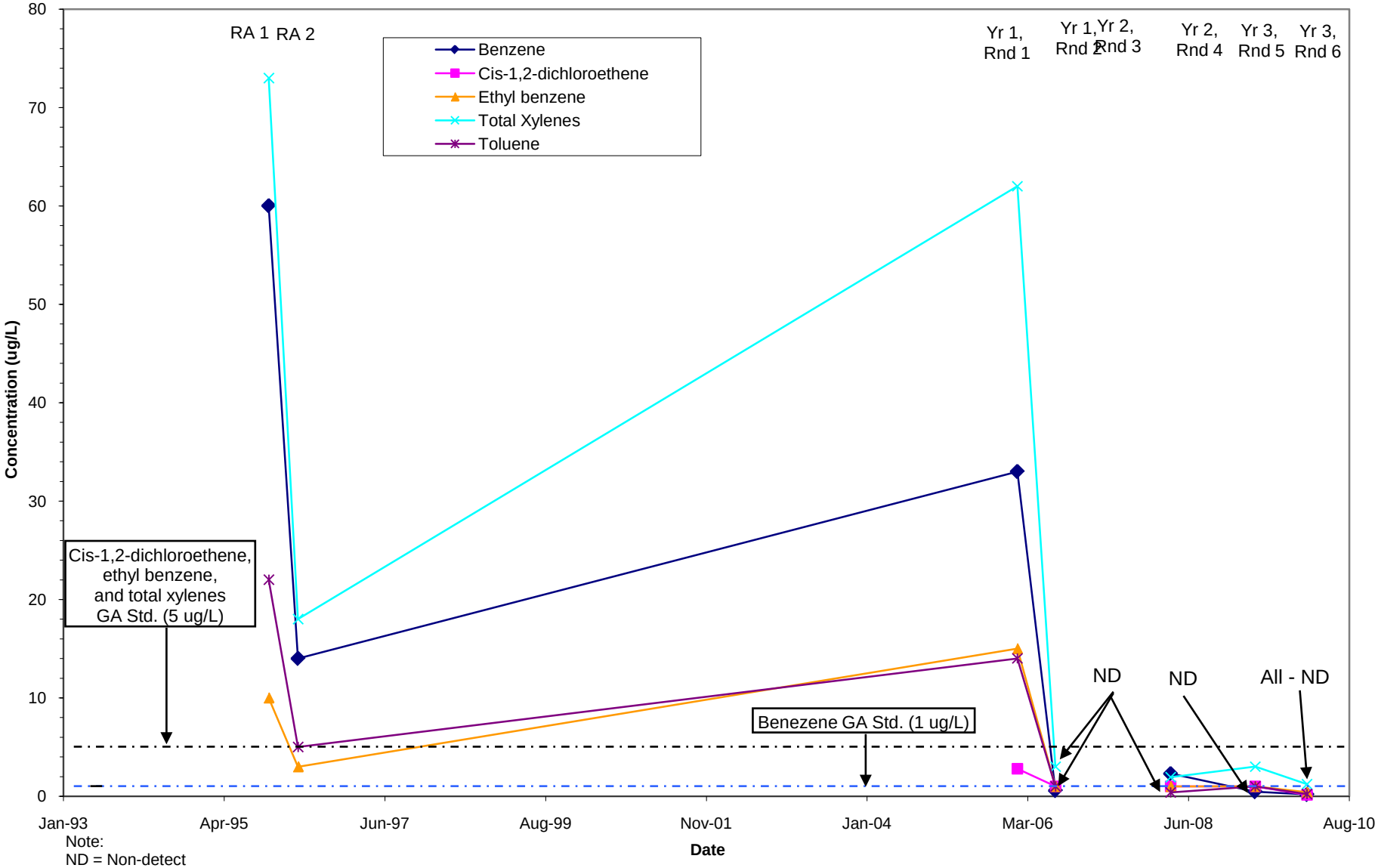
Note:
ND = non-detect

Figure 9B
Concentrations of Detected Chemicals of Concern in MW25-3 (Near Former Source)
SEAD-25 Annual Report
Seneca Army Depot Activiy



Note:
ND = Non-deteced

Figure 9C
Concentrations of Detected Chemicals of Concern in MW25-9 (Near Former Source)
SEAD-25 Annual Report
Seneca Army Depot Activiy



Note:
ND = Non-detect
Round 3 samples not collected due to low sample levels.

Figure 10
MW25-2 - Benzene Concentration vs Saturated Thickness - All Rounds

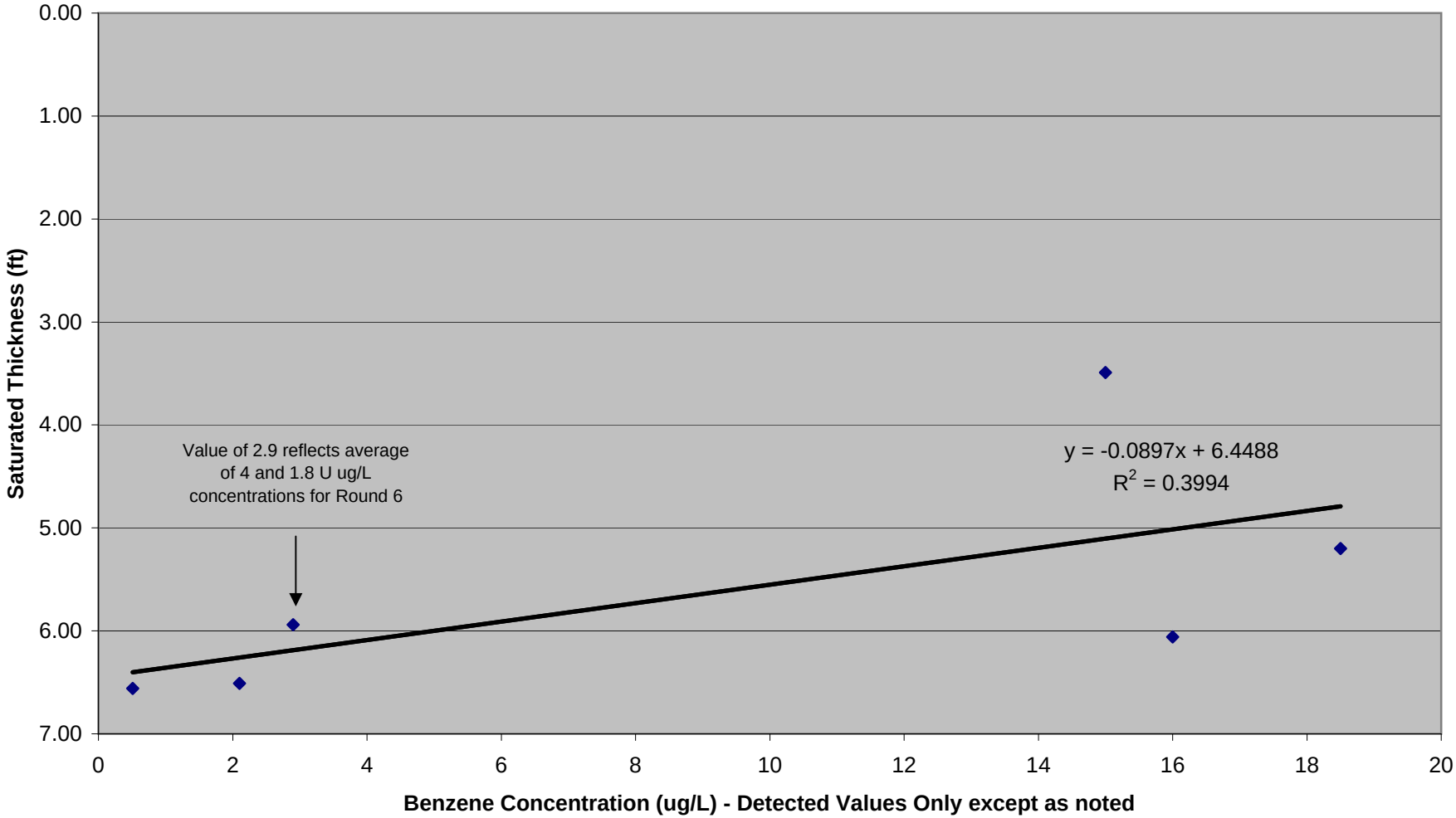


FIGURE 11
MW25-2 - Benzene Concentration vs Saturated Thickness - Round 1 Excluded

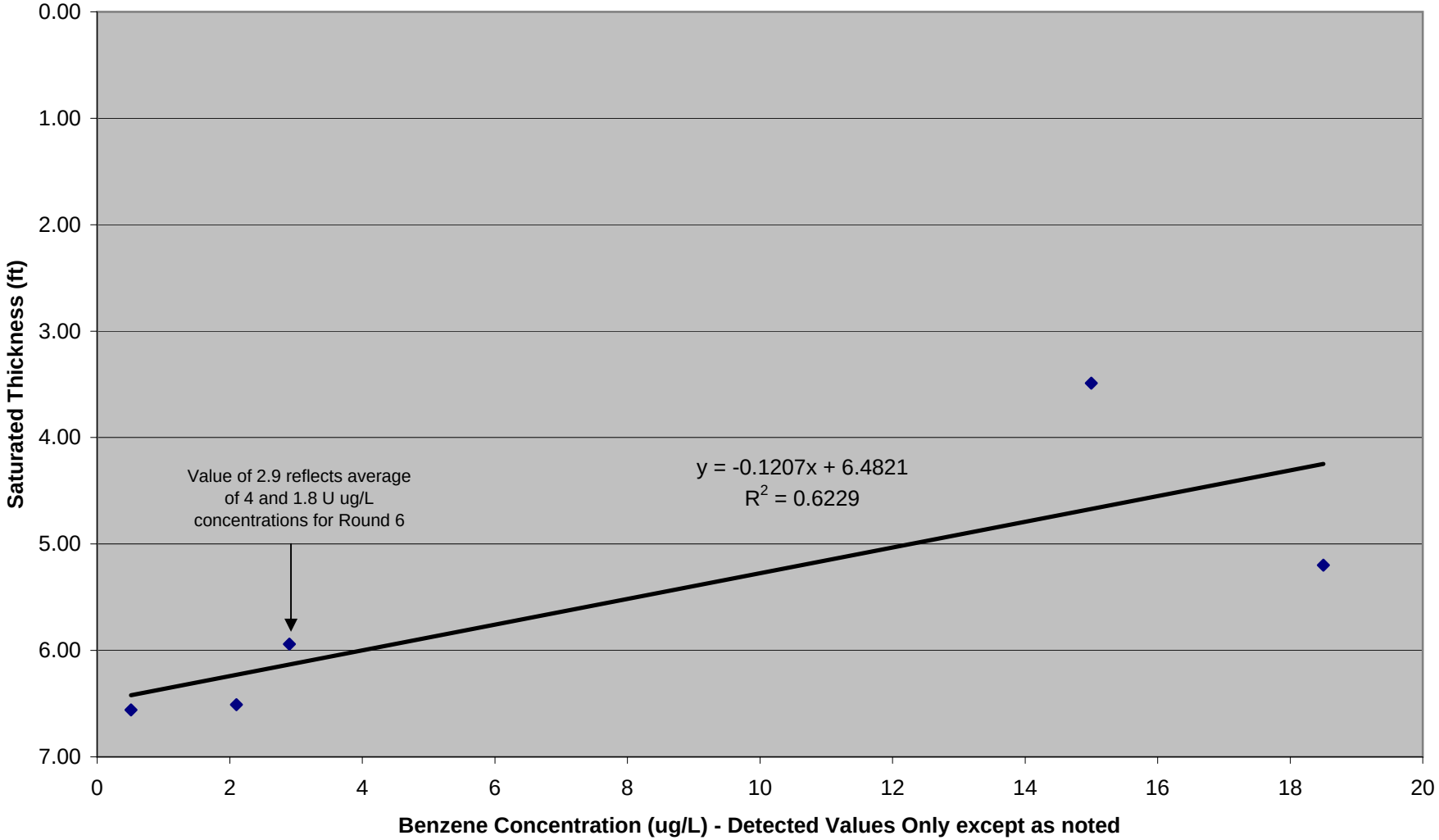


FIGURE 12
MW25-2 - Ethyl Benzene Concentration vs Saturated Thickness - Round 1 Excluded

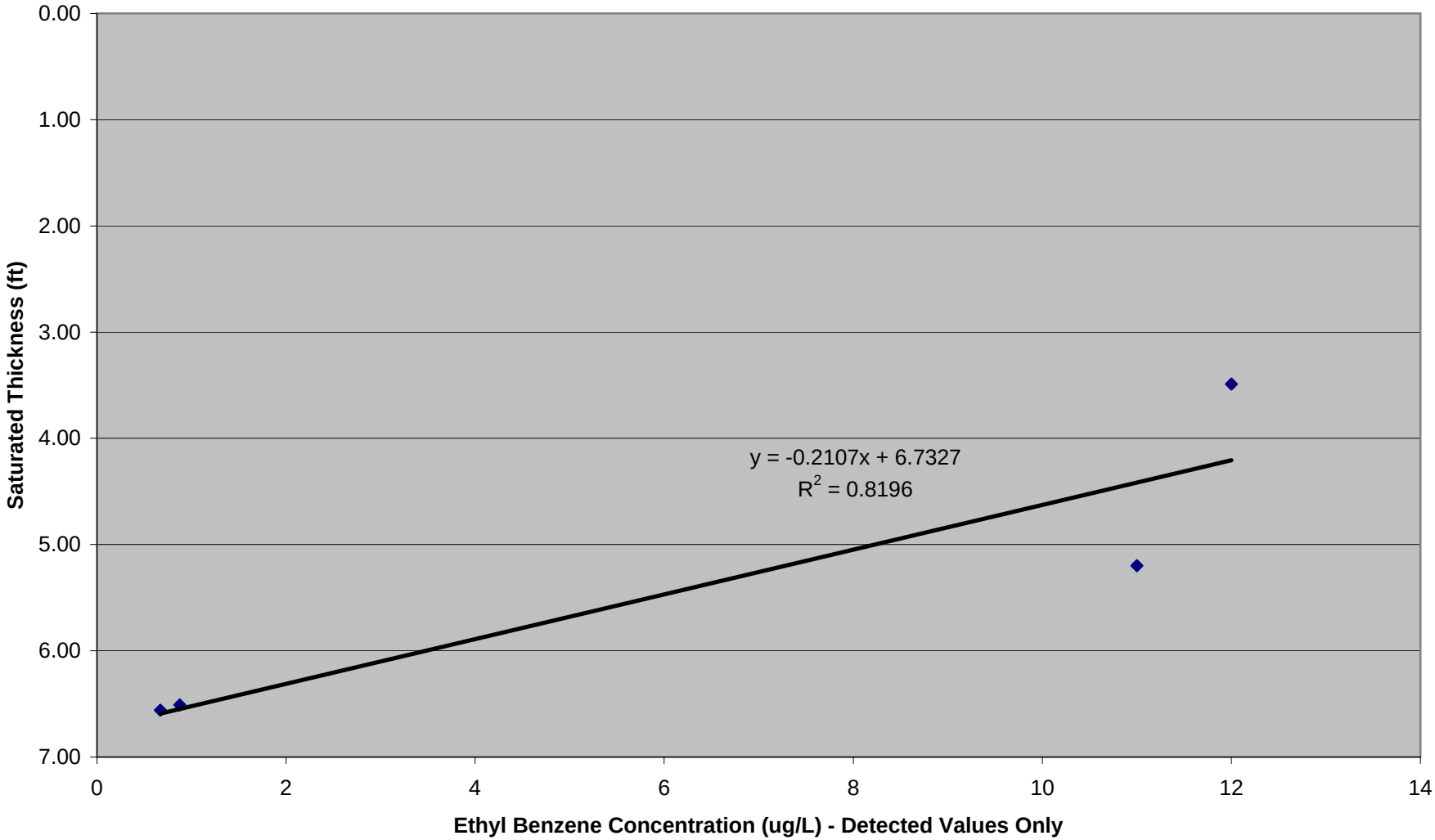


FIGURE 13
MW25-2 - BTEX Concentration vs Saturated Thickness - Round 1 Excluded

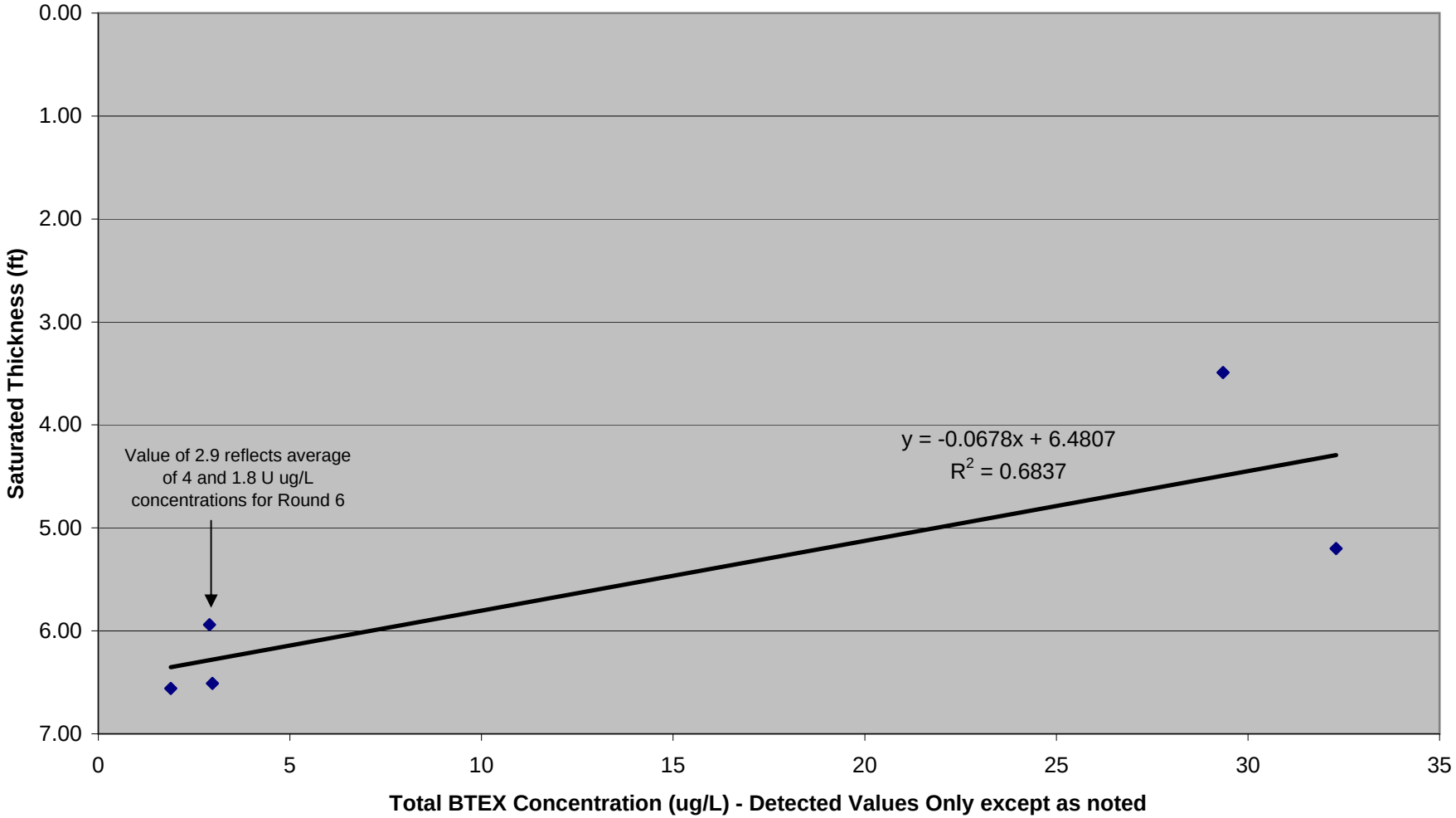


FIGURE 14
MW 25-9 - Benzene Concentration vs Saturated Thickness - All Rounds

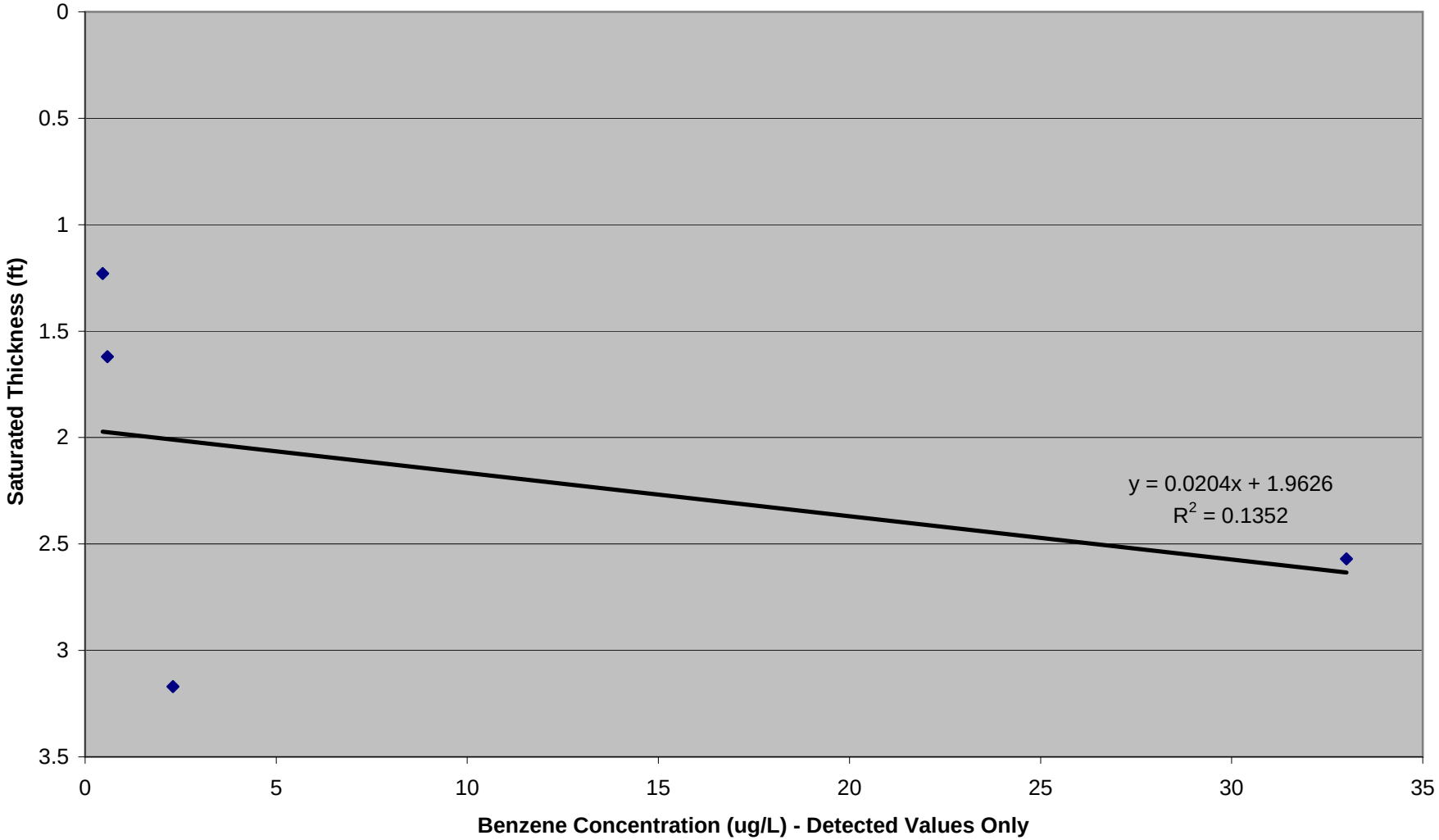
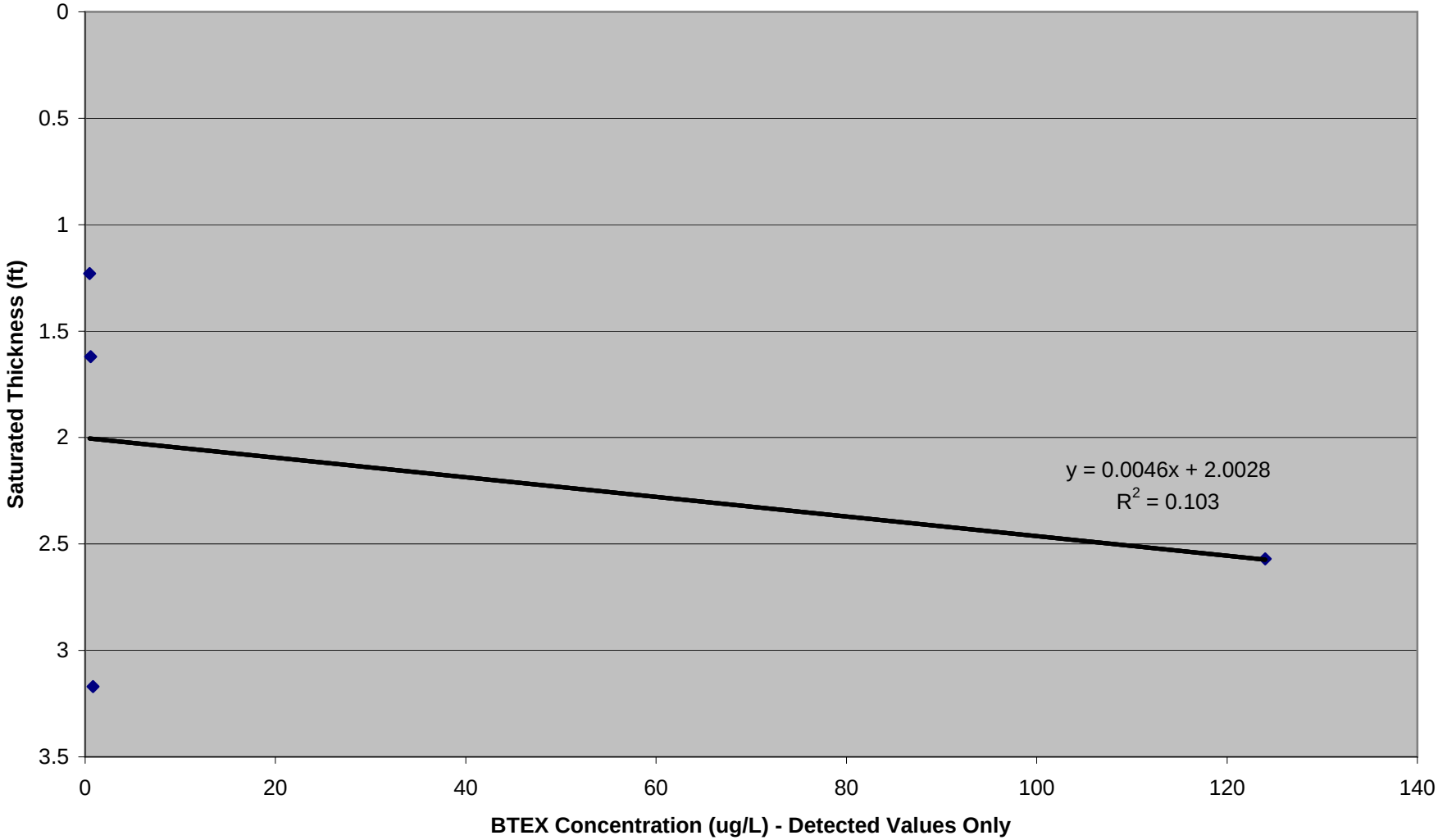


Figure 15
MW25-9 - BTEX Concentration vs Saturated Thickness - All Rounds



APPENDICES

A Complete Groundwater Data

B Field Forms

C Groundwater Elevations

APPENDIX A

COMPLETE GROUNDWATER DATA

Appendix A Table A-1
SEAD-25 Historic Groundwater Results
SEAD-25 Third Annual Report
Seneca Army Depot Activity

SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-10	MW25-10	MW25-10	MW25-10	MW25-13
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20005	25LM20015	25LM20039	25LM20061	25LM20006
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	1/13/2010	1/30/2006
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	0.53 J	1 U	0.32 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	0.09 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	0.4 U	1 UJ
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	0.2 U	1 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1 U	1 U	1 U	0.14 U	1 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	0.37 U	1 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	0.19 U	1 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	1 U	1 U	2 U	0.43 U	1 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1 U	0.18 U	1 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	0.4 U	1 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	1 U	1 U	0.14 U	1 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	0.15 U	1 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	0.36 U	1 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	0.34 U	1 U
Acetone	UG/L	1.4	2%			0	1	55	5 U	5 U	10 UJ	5 U	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	1 U	1 U	1 U	0.18 U	1 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	0.17 U	1 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 UJ	0.2 U	1 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	1 U	0.36 U	1 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	0.36 U	1 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	0.26 U	1 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	0.11 U	1 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 U	1 UJ	2 U	0.21 U	1 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1 U	0.16 U	1 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	1 U	1 U	1 U	0.14 U	1 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	0.14 U	1 U
Cyclohexane	UG/L	8.6	8%			0	4	50	1 U	1 U	1 U	0.14 U	1 UJ
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 UJ	0.18 U	1 U
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	1 U	1 U	1 U	0.42 U	1 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1 U	1 U	1 U	0.34 U	1 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35			1 U	0.81 U	
Methyl Acetate	UG/L	0	0%			0	0	50	1 U	1 U	10 U	0.48 U	1 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1 U	0.13 U	1 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	2 U	0.4 U	1 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	0.4 U	5 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	2 U	0.18 U	1 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	1 U	1 U	1 U	0.16 U	1 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	5 U	5 UJ	5 U	1 U	5 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	0.34 U	5 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 UJ	1 U	0.13 U	1 U
Naphthalene	UG/L	0.23	20%			0	1	5					

Appendix A Table A-1
SEAD-25 Historic Groundwater Results
SEAD-25 Third Annual Report
Seneca Army Depot Activity

SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-10	MW25-10	MW25-10	MW25-10	MW25-13
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20005	25LM20015	25LM20039	25LM20061	25LM20006
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	1/13/2010	1/30/2006
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35			1 U	0.4 U	
Propylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	0.36 U	1 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	0.42 U	1 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1 U	1 U	1 U	0.21 U	1 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20	3 U	3 U			3 U
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	0.16 U	1 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	0.17 U	1 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	1 U	1 U	0.19 U	1 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 U	0.16 U	1 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	1 U	0.22 U	1 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10		1 U			
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			9 U
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			9 U
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
2,4-Dimethylphenol	UG/L	0	0%			0	0	18	10 U	10 U			9 U
2,4-Dinitrophenol	UG/L	0	0%			0	0	18	48 U	48 U			47 U
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
2-Chloronaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
2-Chlorophenol	UG/L	0	0%			0	0	18	10 U	10 U			9 U
2-Methylnaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
2-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			9 U
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			47 U
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			9 U
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	19 U	19 U			19 U
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			47 U
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			47 U
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			9 U
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			9 U
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			9 U
4-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			9 U
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			47 U
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			47 UJ
Acenaphthene	UG/L	0.5	6%			0	1	18	10 U	10 U			9 U
Acenaphthylene	UG/L	2	22%			0	4	18	1 J	10 U			9 U
Acetophenone	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Anthracene	UG/L	1	6%			0	1	18	10 U	10 U			9 U
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	10 U	10 U			9 U
Benzaldehyde	UG/L	0	0%			0	0	18	48 U	48 U			47 U
Benzo(a)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			9 U

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-10	MW25-10	MW25-10	MW25-10	MW25-13
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20005	25LM20015	25LM20039	25LM20061	25LM20006
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	1/13/2010	1/30/2006
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	10 U	10 U			9 U
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18	10 U	10 U			9 U
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			9 U
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	10 U	10 U			9 U
Butylbenzylphthalate	UG/L	2	6%			0	1	18	10 U	10 U			9 U
Caprolactam	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Carbazole	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Chrysene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	10 U	10 U			9 U
Di-n-octylphthalate	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Dibenzofuran	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Diethyl phthalate	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Dimethylphthalate	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Fluorene	UG/L	0	0%			0	0	18	10 U	10 UJ			9 U
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	10 U	10 U			9 U
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	10 U	10 U			9 U
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	43 U	43 U			42 U
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			9 U
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Isophorone	UG/L	0	0%			0	0	18	10 U	10 U			9 U
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18	10 U	10 U			9 U
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Naphthalene	UG/L	2	6%			0	1	18	10 U	10 U			9 U
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	10 U	10 U			9 U
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			47 U
Phenanthrene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Phenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			9 U
Pyrene	UG/L	0	0%			0	0	18	10 U	10 U			9 U
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	62.8 J	**358**	100 U	**508**	**320** J
Sodium	UG/L	41900	100%	GA	20000	7	53	53	8870	6530 J	6090	6420	**40600**
Chloride	MG/L	59	72%	GA	250000	0	38	53	0.73	0.71 J	0.2 U	2.1	2.5
Ethane	UG/L	1.1	9%			0	5	53	2 U	2 U	1 U	0.21 U	2 U
Ethene	UG/L	4.6	9%			0	5	53	2 U	2 U	1 U	0.22 U	2 U
Methane	UG/L	170	38%			0	20	53	2 U	2 U	2 U	0.14 U	2 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24				0.05 UJ	
NITRITE	MG/L	0.73	21%			0	5	24				0.007 UJ	
Nitrate Nitrogen	MG/L	1	45%			0	13	29	0.05 U	0.05 U	0.102 J		0.05 U

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-10	MW25-10	MW25-10	MW25-10	MW25-13
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20005	25LM20015	25LM20039	25LM20061	25LM20006
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	1/13/2010	1/30/2006
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20			0.102	0.003 UJ	
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29	0.05 U	0.05 U	0.01 UJ		0.05 U
Sulfate	MG/L	182	100%	GA	250000	0	53	53	18.1	18.4	12.9	27.1 J	15.6
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.464	0.701	0.473	0.396	0.492
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	4.22	4.23	3.65		0.94
ORP	mV	259	73%			0	38	52	107	138.8	130	230	38
Sulfide	MG/L	1.04	84%			0	43	51	0.1	0.28	0.02	0.09	0.02
Temperature	deg C	26.55	100%			0	52	52	5	21.56	3.6	5.6	3.8
Turbidity	NTU	195	100%			0	52	52	1.09	195	2.36	3.3	21
pH	Std units	7.69	100%			0	52	52	6.97	6.56	7.31	7.19	7.27

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SEAD-25 Historic Groundwater Results
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-13	MW25-13	MW25-15	MW25-15	MW25-15
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20016	25LM20040	25LM20007	25LM20017	25LM20041
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									8/9/2006	3/3/2008	1/31/2006	8/14/2006	3/3/2008
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									2	4	1	2	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10	1 U			1 U	
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	1 U	2 U	1 U	1 U	2 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10	1 U			1 U	
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	1 U
Acetone	UG/L	1.4	2%			0	1	55	7.8 UJ	10 UJ	5 U	12 UJ	10 UJ
Benzene	UG/L	33	24%	GA	1	10	13	55	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	1 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1 U	1 UJ	1 U	1 U	1 UJ
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	1 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 UJ	2 U	1 U	1 U	2 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	1 U	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	1 U
Cyclohexane	UG/L	8.6	8%			0	4	50	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 UJ	1 UJ	1 U	1 UJ
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1 U	1 U	1 U	1 U	1 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35		1 U			1 U
Methyl Acetate	UG/L	0	0%			0	0	50	1 U	10 U	1 U	1 U	10 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	1 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 U	2 U	1 U	1 UJ	2 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	5 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	2 U	1 U	1 U	2 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	1 U	1 U	1 U	1 U	1 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	5 UJ	5 U	5 U	5 U	5 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	5 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 UJ	1 U	1 U	1 U	1 U
Naphthalene	UG/L	0.23	20%			0	1	5					

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-13	MW25-13	MW25-15	MW25-15	MW25-15
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20016	25LM20040	25LM20007	25LM20017	25LM20041
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									8/9/2006	3/3/2008	1/31/2006	8/14/2006	3/3/2008
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									2	4	1	2	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35		1 U			1 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10	1 U			1 U	
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1 U	1 U	1 U	1 U	1 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20	3 U		3 U	3 U	
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	1 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 UJ	1 U	1 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10	1 U			1 U	
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18			9 U		
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18			9 U		
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18			9 U		
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18			9 U		
2,4-Dimethylphenol	UG/L	0	0%			0	0	18			9 U		
2,4-Dinitrophenol	UG/L	0	0%			0	0	18			47 U		
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18			9 U		
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18			9 U		
2-Chloronaphthalene	UG/L	0	0%			0	0	18			9 U		
2-Chlorophenol	UG/L	0	0%			0	0	18			9 U		
2-Methylnaphthalene	UG/L	0	0%			0	0	18			9 U		
2-Methylphenol	UG/L	0	0%			0	0	18			9 U		
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U		
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18			9 U		
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18			19 U		
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U		
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18			47 U		
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18			9 U		
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18			9 U		
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18			9 U		
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18			9 U		
4-Methylphenol	UG/L	0	0%			0	0	18			9 U		
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U		
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18			47 U		
Acenaphthene	UG/L	0.5	6%			0	1	18			9 U		
Acenaphthylene	UG/L	2	22%			0	4	18			0.7 J		
Acetophenone	UG/L	0	0%			0	0	18			9 U		
Anthracene	UG/L	1	6%			0	1	18			9 U		
Atrazine	UG/L	0	0%	GA	7.5	0	0	18			9 U		
Benzaldehyde	UG/L	0	0%			0	0	18			47 U		
Benzo(a)anthracene	UG/L	0	0%			0	0	18			9 U		

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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-13	MW25-13	MW25-15	MW25-15	MW25-15
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20016	25LM20040	25LM20007	25LM20017	25LM20041
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								8/9/2006	3/3/2008	1/31/2006	8/14/2006	3/3/2008
QC CODE								SA	SA	SA	SA	SA
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								2	4	1	2	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18			9 U		
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18			9 U		
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18			9 U		
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18			9 U		
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18			9 U		
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18			9 U		
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18			9 U		
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18			9 U		
Butylbenzylphthalate	UG/L	2	6%			0	1	18			9 U		
Caprolactam	UG/L	0	0%			0	0	18			9 U		
Carbazole	UG/L	0	0%			0	0	18			9 U		
Chrysene	UG/L	0	0%			0	0	18			9 U		
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18			9 U		
Di-n-octylphthalate	UG/L	0	0%			0	0	18			9 U		
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18			9 U		
Dibenzofuran	UG/L	0	0%			0	0	18			9 U		
Diethyl phthalate	UG/L	0	0%			0	0	18			9 U		
Dimethylphthalate	UG/L	0	0%			0	0	18			9 U		
Fluoranthene	UG/L	0	0%			0	0	18			9 U		
Fluorene	UG/L	0	0%			0	0	18			9 U		
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18			9 U		
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18			9 U		
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18			42 U		
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18			9 U		
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18			9 U		
Isophorone	UG/L	0	0%			0	0	18			9 U		
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18			9 U		
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18			9 U		
Naphthalene	UG/L	2	6%			0	1	18			9 U		
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18			9 U		
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18			47 U		
Phenanthrene	UG/L	0	0%			0	0	18			9 U		
Phenol	UG/L	0	0%	GA	1	0	0	18			9 U		
Pyrene	UG/L	0	0%			0	0	18			9 U		
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53			56 J	**850**	100 U
Sodium	UG/L	41900	100%	GA	20000	7	53	53			3080	6630 J	6340
Chloride	MG/L	59	72%	GA	250000	0	38	53			0.66	1.4 J	0.2 U
Ethane	UG/L	1.1	9%			0	5	53			2 U	2 U	1 U
Ethene	UG/L	4.6	9%			0	5	53			2 U	2 U	1 U
Methane	UG/L	170	38%			0	20	53			2 U	2 U	2 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24					
NITRITE	MG/L	0.73	21%			0	5	24					
Nitrate Nitrogen	MG/L	1	45%			0	13	29			0.05 U	0.05 U	0.16 J

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-13	MW25-13	MW25-15	MW25-15	MW25-15
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20016	25LM20040	25LM20007	25LM20017	25LM20041
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									8/9/2006	3/3/2008	1/31/2006	8/14/2006	3/3/2008
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									2	4	1	2	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20					0.16
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29			0.05 U	0.087	0.01 UJ
Sulfate	MG/L	182	100%	GA	250000	0	53	53			14.4	17.9	13.3
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.699	0.639	0.36	0.651	0.477
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	4.1	4.79	2.93	1.99	4.57
ORP	mV	259	73%			0	38	52	-22.2	97	82	222.1	139
Sulfide	MG/L	1.04	84%			0	43	51		0		0.8	0
Temperature	deg C	26.55	100%			0	52	52	23.42	3	5.3	18.76	4.7
Turbidity	NTU	195	100%			0	52	52	100	16.4	1.1	27.4	3.58
pH	Std units	7.69	100%			0	52	52	6.98	7.52	7.2	5.8	7.25

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-15	MW25-15	MW25-17	MW25-17	MW25-17
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20052	25LM20063	25LM20008	25LM20018	25LM20024
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/29/2009	1/13/2010	1/30/2006	8/11/2006	6/7/2007
QC CODE									SA	SA	SA	SA	DU
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									5	6	1	2	3
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	0.32 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	0.09 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 U	0.4 U	1 UJ	1 U	
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	0.2 U	1 U	1 U	1 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1 U	0.14 U	1 U	1 U	1 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	0.37 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	0.19 U	1 U	1 U	
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10				1 U	
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	2 U	0.43 U	1 U	1 U	
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	0.18 U	1 U	1 U	1 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	0.4 U	1 U	1 U	
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	0.14 U	1 U	1 U	1 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	0.15 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10				1 U	
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	0.36 U	1 U	1 U	
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	0.34 U	1 U	1 U	
Acetone	UG/L	1.4	2%			0	1	55	5 U	5 U	5 U	5 U	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	1 U	0.18 U	1 U	1 U	1 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	0.17 U	1 U	1 U	1 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1.2 U	0.2 U	1 U	1 U	2 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	0.36 U	1 U	1 U	1 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	0.36 U	1 U	1 U	1 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	0.26 U	1 U	1 U	1 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	0.11 U	1 U	1 U	1 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 U	0.21 U	1 U	1 U	1 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	0.16 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	1 U	0.14 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	0.14 U	1 U	1 U	1 U
Cyclohexane	UG/L	8.6	8%			0	4	50	1 U	0.14 U	1 UJ	1 U	
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	0.18 U	1 U	1 U	
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	1 U	0.42 U	1 U	1 U	1 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1 U	0.34 U	1 U	1 U	1 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35	2 U	0.81 U			2 U
Methyl Acetate	UG/L	0	0%			0	0	50	2 U	0.48 U	1 U	1 U	
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	0.13 U	1 U	1 U	1 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 UJ	0.4 U	1 U	1 UJ	1 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	0.4 U	5 U	5 U	2 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	0.18 U	1 U	1 U	1 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	1 U	0.16 U	1 U	1 U	
Methyl ethyl ketone	UG/L	9	13%			0	7	55	5 U	1 U	5 U	5 U	2 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	0.34 U	5 U	5 U	1 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	0.13 U	1 U	1 U	1 U
Naphthalene	UG/L	0.23	20%			0	1	5					1 U

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-15	MW25-15	MW25-17	MW25-17	MW25-17
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20052	25LM20063	25LM20008	25LM20018	25LM20024
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/29/2009	1/13/2010	1/30/2006	8/11/2006	6/7/2007
QC CODE									SA	SA	SA	SA	DU
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									5	6	1	2	3
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35	1 U	0.4 U			1 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10				1 U	
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	0.36 U	1 U	1 U	1 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	0.42 U	1 U	1 U	1 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1 U	0.21 U	1 U	1 U	1 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20			3 U	3 U	
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	0.16 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	0.17 U	1 U	1 U	1 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	0.19 U	1 U	1 U	1 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	0.16 U	1 U	1 U	
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	0.22 U	1 U	1 U	1 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10				1 U	
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U	
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U	
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
2,4-Dimethylphenol	UG/L	0	0%			0	0	18			9 U	10 U	
2,4-Dinitrophenol	UG/L	0	0%			0	0	18			47 U	49 U	
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
2-Chloronaphthalene	UG/L	0	0%			0	0	18			9 U	10 U	
2-Chlorophenol	UG/L	0	0%			0	0	18			9 U	10 U	
2-Methylnaphthalene	UG/L	0	0%			0	0	18			9 U	10 U	
2-Methylphenol	UG/L	0	0%			0	0	18			9 U	10 U	
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U	49 U	
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U	
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18			19 U	20 U	
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U	49 U	
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18			47 U	49 U	
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18			9 U	10 U	
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U	
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18			9 U	10 U	
4-Methylphenol	UG/L	0	0%			0	0	18			9 U	10 U	
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U	49 U	
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18			47 UJ	49 U	
Acenaphthene	UG/L	0.5	6%			0	1	18			9 U	10 U	
Acenaphthylene	UG/L	2	22%			0	4	18			9 U	10 U	
Acetophenone	UG/L	0	0%			0	0	18			9 U	10 U	
Anthracene	UG/L	1	6%			0	1	18			9 U	10 U	
Atrazine	UG/L	0	0%	GA	7.5	0	0	18			9 U	10 U	
Benzaldehyde	UG/L	0	0%			0	0	18			47 U	49 U	
Benzo(a)anthracene	UG/L	0	0%			0	0	18			9 U	10 U	

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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-15	MW25-15	MW25-17	MW25-17	MW25-17
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20052	25LM20063	25LM20008	25LM20018	25LM20024
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								4/29/2009	1/13/2010	1/30/2006	8/11/2006	6/7/2007
QC CODE								SA	SA	SA	SA	DU
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								5	6	1	2	3
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18			9 U	10 U	
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18			9 U	10 U	
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18			9 U	10 U	
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18			9 U	10 U	
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18			9 U	10 U	
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18			9 U	10 U	
Butylbenzylphthalate	UG/L	2	6%			0	1	18			9 U	10 U	
Caprolactam	UG/L	0	0%			0	0	18			9 U	10 U	
Carbazole	UG/L	0	0%			0	0	18			9 U	10 U	
Chrysene	UG/L	0	0%			0	0	18			9 U	10 U	
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18			9 U	10 U	
Di-n-octylphthalate	UG/L	0	0%			0	0	18			9 U	10 U	
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18			9 U	10 U	
Dibenzofuran	UG/L	0	0%			0	0	18			9 U	10 U	
Diethyl phthalate	UG/L	0	0%			0	0	18			9 U	10 U	
Dimethylphthalate	UG/L	0	0%			0	0	18			9 U	10 U	
Fluoranthene	UG/L	0	0%			0	0	18			9 U	10 U	
Fluorene	UG/L	0	0%			0	0	18			9 U	10 U	
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18			9 U	10 U	
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18			9 U	10 U	
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18			42 U	44 U	
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18			9 U	10 U	
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18			9 U	10 U	
Isophorone	UG/L	0	0%			0	0	18			9 U	10 U	
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18			9 U	10 U	
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18			9 U	10 U	
Naphthalene	UG/L	2	6%			0	1	18			9 U	10 U	
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18			9 U	10 U	
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18			47 U	49 U	
Phenanthrene	UG/L	0	0%			0	0	18			9 U	10 U	
Phenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U	
Pyrene	UG/L	0	0%			0	0	18			9 U	10 U	
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	30 J	**769**	46.1	8.8 U	**390** J
Sodium	UG/L	41900	100%	GA	20000	7	53	53	3500	3620	4240	5170 J	7700 J
Chloride	MG/L	59	72%	GA	250000	0	38	53	0.2 U	0.5 U	0.7	1.4 J	3.5
Ethane	UG/L	1.1	9%			0	5	53	1 U	0.16 U	2 U	2 U	0.21
Ethene	UG/L	4.6	9%			0	5	53	1 U	0.17 U	2 U	2 U	1.2
Methane	UG/L	170	38%			0	20	53	2 U	0.14 U	2 U	2 U	6.1
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24	0.05 U	0.05 UJ			6.4 J
NITRITE	MG/L	0.73	21%			0	5	24	0.01 U	0.007 UJ			0.73 J
Nitrate Nitrogen	MG/L	1	45%			0	13	29			0.05 U	0.11	

Appendix A Table A-1
SEAD-25 Historic Groundwater Results
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-15	MW25-15	MW25-17	MW25-17	MW25-17
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20052	25LM20063	25LM20008	25LM20018	25LM20024
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/29/2009	1/13/2010	1/30/2006	8/11/2006	6/7/2007
QC CODE									SA	SA	SA	SA	DU
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									5	6	1	2	3
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20		0.003 UJ			
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29			0.05 U	0.05 U	
Sulfate	MG/L	182	100%	GA	250000	0	53	53	20.3	24.8 J	17.2	16.3	19
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52		0.38	0.462	0.593	0.418
Dissolved Oxygen	MG/L	8.46	100%			0	49	49			8.46	5.31	0.31
ORP	mV	259	73%			0	38	52		213	68	157	134
Sulfide	MG/L	1.04	84%			0	43	51	0	0.17	0.01		0.06
Temperature	deg C	26.55	100%			0	52	52		6.1	6.3	18.27	13.2
Turbidity	NTU	195	100%			0	52	52		1.5	3.4	1.7	12
pH	Std units	7.69	100%			0	52	52		7.23	7.69	6.72	7.2

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-17	MW25-17	MW25-17	MW25-17	MW25-17
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20028	25LM20032	25LM20033	25LM20043	25LM20055
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									6/7/2007	3/4/2008	3/4/2008	4/28/2009	1/14/2010
QC CODE									SA	DU	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									3	4	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	0.32 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.09 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50		1 U	1 U	1 U	0.4 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.2 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1 U	1 U	1 U	1 U	0.14 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.37 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50		1 U	1 U	1 U	0.19 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10					
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50		2 U	2 U	2 U	0.43 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1 U	1 U	0.18 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50		1 U	1 U	1 U	0.4 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	1 U	1 U	1 U	0.14 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.15 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10					
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50		1 U	1 U	1 U	0.36 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50		1 U	1 U	1 U	0.34 U
Acetone	UG/L	1.4	2%			0	1	55	5 U	10 UJ	10 UJ	5 U	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	1 U	1 U	1 U	1 U	0.18 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	2 U	1 UJ	1 UJ	1.1 U	0.2 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.36 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.26 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.11 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 U	2 U	2 U	1 U	0.21 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	1 U	1 U	1 U	1 U	0.14 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.14 U
Cyclohexane	UG/L	8.6	8%			0	4	50		1 U	1 U	1 U	0.14 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50		1 UJ	1 UJ	1 U	0.18 U
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	1 U	1 U	1 U	1 U	0.42 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1 U	1 U	1 U	1 U	0.34 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35	2 U	1 U	1 U	2 U	0.81 U
Methyl Acetate	UG/L	0	0%			0	0	50		10 U	10 U	2 U	0.48 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.13 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 U	2 U	2 U	1 U	0.4 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	2 U	5 U	5 U	5 U	0.4 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	2 U	2 U	1 U	0.18 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50		1 U	1 U	1 U	0.16 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	2 U	0.75 J	0.93 J	5 U	1 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	1 U	5 U	5 U	5 U	0.34 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.13 U
Naphthalene	UG/L	0.23	20%			0	1	5	1 U				

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-17	MW25-17	MW25-17	MW25-17	MW25-17
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20028	25LM20032	25LM20033	25LM20043	25LM20055
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									6/7/2007	3/4/2008	3/4/2008	4/28/2009	1/14/2010
QC CODE									SA	DU	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									3	4	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35	1 U	1 U	1 U	1 U	0.4 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10					
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.42 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1 U	1 U	1 U	1 U	0.21 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20					
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	0.19 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50		1 U	1 U	1 U	0.16 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	1 U	1 U	0.22 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10					
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18					
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18					
2,4-Dimethylphenol	UG/L	0	0%			0	0	18					
2,4-Dinitrophenol	UG/L	0	0%			0	0	18					
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					
2-Chloronaphthalene	UG/L	0	0%			0	0	18					
2-Chlorophenol	UG/L	0	0%			0	0	18					
2-Methylnaphthalene	UG/L	0	0%			0	0	18					
2-Methylphenol	UG/L	0	0%			0	0	18					
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18					
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18					
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18					
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18					
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18					
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18					
4-Methylphenol	UG/L	0	0%			0	0	18					
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					
Acenaphthene	UG/L	0.5	6%			0	1	18					
Acenaphthylene	UG/L	2	22%			0	4	18					
Acetophenone	UG/L	0	0%			0	0	18					
Anthracene	UG/L	1	6%			0	1	18					
Atrazine	UG/L	0	0%	GA	7.5	0	0	18					
Benzaldehyde	UG/L	0	0%			0	0	18					
Benzo(a)anthracene	UG/L	0	0%			0	0	18					

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-17	MW25-17	MW25-17	MW25-17	MW25-17
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20028	25LM20032	25LM20033	25LM20043	25LM20055
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									6/7/2007	3/4/2008	3/4/2008	4/28/2009	1/14/2010
QC CODE									SA	DU	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									3	4	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18					
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18					
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18					
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18					
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18					
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18					
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18					
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18					
Butylbenzylphthalate	UG/L	2	6%			0	1	18					
Caprolactam	UG/L	0	0%			0	0	18					
Carbazole	UG/L	0	0%			0	0	18					
Chrysene	UG/L	0	0%			0	0	18					
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18					
Di-n-octylphthalate	UG/L	0	0%			0	0	18					
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18					
Dibenzofuran	UG/L	0	0%			0	0	18					
Diethyl phthalate	UG/L	0	0%			0	0	18					
Dimethylphthalate	UG/L	0	0%			0	0	18					
Fluoranthene	UG/L	0	0%			0	0	18					
Fluorene	UG/L	0	0%			0	0	18					
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18					
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18					
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18					
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18					
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18					
Isophorone	UG/L	0	0%			0	0	18					
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18					
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18					
Naphthalene	UG/L	2	6%			0	1	18					
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18					
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18					
Phenanthrene	UG/L	0	0%			0	0	18					
Phenol	UG/L	0	0%	GA	1	0	0	18					
Pyrene	UG/L	0	0%			0	0	18					
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	**490** J	100 U	100 U	160	86.9 J
Sodium	UG/L	41900	100%	GA	20000	7	53	53	9300 J	4690	4410	4700	4450
Chloride	MG/L	59	72%	GA	250000	0	38	53	3.7	0.2 U	0.2 U	0.2 U	2.5
Ethane	UG/L	1.1	9%			0	5	53	0.25	1 U	1 U	1 U	0.21 U
Ethene	UG/L	4.6	9%			0	5	53	1.4	1 U	1 U	1 U	0.22 U
Methane	UG/L	170	38%			0	20	53	7	2 U	2 U	2 U	0.14 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24	0.48 J			0.05 U	0.245 J
NITRITE	MG/L	0.73	21%			0	5	24	0.5 UJ			0.01 U	0.007 UJ
Nitrate Nitrogen	MG/L	1	45%			0	13	29		0.798 J	1 J		

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-17	MW25-17	MW25-17	MW25-17	MW25-17
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20028	25LM20032	25LM20033	25LM20043	25LM20055
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									6/7/2007	3/4/2008	3/4/2008	4/28/2009	1/14/2010
QC CODE									SA	DU	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									3	4	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20		0.798	1		0.245 J
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29		0.01 UJ	0.01 UJ		
Sulfate	MG/L	182	100%	GA	250000	0	53	53	18	19.6	19.1	17.3	16.7 J
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.418	0.532	0.532	0.379	0.418
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	0.31	8.24	8.24	7.45	6.79
ORP	mV	259	73%			0	38	52	134	155	155	192	211
Sulfide	MG/L	1.04	84%			0	43	51	0.06	0.01	0.01	0	0
Temperature	deg C	26.55	100%			0	52	52	13.2	6	6	7.2	8.1
Turbidity	NTU	195	100%			0	52	52	12	2.03	2.03	1.2	1.4
pH	Std units	7.69	100%			0	52	52	7.2	7.3	7.3	7.31	7.29

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

Appendix A Table A-1
SEAD-25 Historic Groundwater Results
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-18	MW25-18	MW25-18	MW25-18	MW25-18
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20009	25LM20019	25LM20029	25LM20034	25LM20044
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/30/2006	8/14/2006	6/6/2007	3/5/2008	4/28/2009
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	3	4	5
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	1 U	1 UJ	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U		1 U	1 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 UJ	1 U	1 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1 U	1 U	1 UJ	1 U	1 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	1 U		1 U	1 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	1 U	1 U		2 U	2 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1 UJ	1 U	1 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U		1 U	1 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	1 U	1 UJ	1 U	1 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 UJ	1 U	1 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U		1 U	1 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U		1 U	1 U
Acetone	UG/L	1.4	2%			0	1	55	5 U	5 U	5 UJ	10 UJ	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	1 U	1 U	1 UJ	1 U	1 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	2 UJ	1 UJ	1.1 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	1 UJ	1 U	1 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 U	1 U	1 UJ	2 U	1 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	1 U	1 U	1 UJ	1 U	1 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Cyclohexane	UG/L	8.6	8%			0	4	50	1 UJ	1 U		1 U	1 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U		1 UJ	1 U
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	1 U	1 U	1 UJ	1 U	1 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1 U	1 U	1 UJ	1 U	1 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35			2 UJ	1 U	2 U
Methyl Acetate	UG/L	0	0%			0	0	50	1 U	1 U		10 U	2 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1 UJ	1 U	1 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	2 U	1 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	2 U	5 U	5 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	2 U	1 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	1 U	1 U		1 U	1 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	5 U	5 U	2 UJ	0.5 J	5 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	1 UJ	5 U	5 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Naphthalene	UG/L	0.23	20%			0	1	5			1 UJ		

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-18	MW25-18	MW25-18	MW25-18	MW25-18
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20009	25LM20019	25LM20029	25LM20034	25LM20044
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/30/2006	8/14/2006	6/6/2007	3/5/2008	4/28/2009
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	3	4	5
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35			1 UJ	1 U	1 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1 U	1 U	1 UJ	1 U	1 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20	3 U	3 U			
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 UJ	1 U	1 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	1 U	1 UJ	1 U	1 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U		1 U	1 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	1 UJ	1 U	1 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10		1 U			
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,4-Dimethylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
2,4-Dinitrophenol	UG/L	0	0%			0	0	18	48 U	48 UJ			
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2-Chloronaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			
2-Chlorophenol	UG/L	0	0%			0	0	18	10 U	10 U			
2-Methylnaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			
2-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	19 U	19 U			
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			
4-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	48 UJ	48 U			
Acenaphthene	UG/L	0.5	6%			0	1	18	10 U	10 U			
Acenaphthylene	UG/L	2	22%			0	4	18	10 U	10 U			
Acetophenone	UG/L	0	0%			0	0	18	10 U	10 U			
Anthracene	UG/L	1	6%			0	1	18	10 U	10 U			
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	10 U	10 U			
Benzaldehyde	UG/L	0	0%			0	0	18	48 U	48 U			
Benzo(a)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			

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SEAD-25 Historic Groundwater Results
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-18	MW25-18	MW25-18	MW25-18	MW25-18
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20009	25LM20019	25LM20029	25LM20034	25LM20044
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/30/2006	8/14/2006	6/6/2007	3/5/2008	4/28/2009
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	3	4	5
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	10 U	10 U			
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18	10 U	10 U			
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	10 U	**11**			
Butylbenzylphthalate	UG/L	2	6%			0	1	18	10 U	2 J			
Caprolactam	UG/L	0	0%			0	0	18	10 U	10 U			
Carbazole	UG/L	0	0%			0	0	18	10 U	10 U			
Chrysene	UG/L	0	0%			0	0	18	10 U	10 U			
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	10 U	10 U			
Di-n-octylphthalate	UG/L	0	0%			0	0	18	10 U	10 UJ			
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			
Dibenzofuran	UG/L	0	0%			0	0	18	10 U	10 U			
Diethyl phthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Dimethylphthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Fluorene	UG/L	0	0%			0	0	18	10 U	10 U			
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	10 U	10 U			
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	10 U	10 U			
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	43 U	44 U			
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18	10 U	10 U			
Isophorone	UG/L	0	0%			0	0	18	10 U	10 U			
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18	10 U	10 U			
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18	10 U	10 U			
Naphthalene	UG/L	2	6%			0	1	18	10 U	10 U			
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	10 U	10 U			
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			
Phenanthrene	UG/L	0	0%			0	0	18	10 U	10 U			
Phenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
Pyrene	UG/L	0	0%			0	0	18	10 U	10 U			
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	**462** J	**357**	**500** J	107	100 J
Sodium	UG/L	41900	100%	GA	20000	7	53	53	**22300**	**41900** J	**37000** J	**20400**	19000
Chloride	MG/L	59	72%	GA	250000	0	38	53	18.6	55.6	59	18	16.3
Ethane	UG/L	1.1	9%			0	5	53	2 U	2 U	0.024 J	1 U	1 U
Ethene	UG/L	4.6	9%			0	5	53	2 U	2 U	2	1 U	1 U
Methane	UG/L	170	38%			0	20	53	2 U	2 U	2	2 U	2 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24			1.5 J		0.05 U
NITRITE	MG/L	0.73	21%			0	5	24			0.5		0.01 U
Nitrate Nitrogen	MG/L	1	45%			0	13	29	0.05 U	0.32		0.199 J	

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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-18	MW25-18	MW25-18	MW25-18	MW25-18
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20009	25LM20019	25LM20029	25LM20034	25LM20044
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								1/30/2006	8/14/2006	6/6/2007	3/5/2008	4/28/2009
QC CODE								SA	SA	SA	SA	SA
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								1	2	3	4	5
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20				0.199	
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29	0.05 U	0.05 U		0.01 UJ	
Sulfate	MG/L	182	100%	GA	250000	0	53	53	24.8	30.1	31	16.8	22.8
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.494	0.858	0.54	0.713	0.385
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	3.99	6.21	0.96	4.68	4.43
ORP	mV	259	73%			0	38	52	63	46	98	144	150
Sulfide	MG/L	1.04	84%			0	43	51	0.12	0.02	1.04	0.01	0
Temperature	deg C	26.55	100%			0	52	52	7.2	24.41	13	4.9	7.1
Turbidity	NTU	195	100%			0	52	52	31.8	6.22	11	5.04	11
pH	Std units	7.69	100%			0	52	52	7.62	7.32	7.15	7.31	7.3

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SEAD-25 Historic Groundwater Results
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-18	MW25-19	MW25-19	MW25-19	MW25-19
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20056	25LM20030	25LM20035	25LM20045	25LM20057
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/14/2010	6/7/2007	3/3/2008	4/28/2009	1/13/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									6	3	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	0.32 U	1 U	1 U	1 U	0.32 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	0.09 U	1 U	1 U	1 U	0.09 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	0.4 U		1 U	1 U	0.4 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	0.2 U	1 U	1 U	1 U	0.2 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	0.14 U	1 U	1 U	1 U	0.14 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	0.37 U	1 U	1 U	1 U	0.37 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	0.19 U		1 U	1 U	0.19 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10					
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	0.43 U		2 U	2 U	0.43 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	0.18 U	1 U	1 U	1 U	0.18 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	0.4 U		1 U	1 U	0.4 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	0.14 U	1 U	1 U	1 U	0.14 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	0.15 U	1 U	1 U	1 U	0.15 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10					
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	0.36 U		1 U	1 U	0.36 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	0.34 U		1 U	1 U	0.34 U
Acetone	UG/L	1.4	2%			0	1	55	5 U	5 U	10 UJ	1.4 J	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	0.18 U	1 U	1 U	1 U	0.18 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	0.17 U	1 U	1 U	1 U	0.17 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	0.2 U	2 U	1 UJ	1 U	0.2 U
Carbon disulfide	UG/L	0	0%			0	0	55	0.36 U	1 U	1 U	1 U	0.36 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	0.36 U	1 U	1 U	1 U	0.36 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	0.26 U	1 U	1 U	1 U	0.26 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	0.11 U	1 U	1 U	1 U	0.11 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	0.21 U	1 U	2 U	1 U	0.21 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	0.16 U	1 U	1 U	1 U	0.16 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	0.14 U	0.2 J	1 U	1 U	0.14 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	0.14 U	1 U	1 U	1 U	0.14 U
Cyclohexane	UG/L	8.6	8%			0	4	50	0.14 U		1 U	1 U	0.14 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	0.18 U		1 UJ	1 U	0.18 U
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	0.42 U	1 U	1 U	1 U	0.42 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	0.34 U	1 U	1 U	1 U	0.34 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35	0.81 U	2 U	1 U	2 U	0.81 U
Methyl Acetate	UG/L	0	0%			0	0	50	0.48 U		10 U	2 U	0.48 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	0.13 U	1 U	1 U	1 U	0.13 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	0.4 U	1 U	2 U	1 U	0.4 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	0.4 U	2 U	5 U	5 U	0.4 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	0.18 U	1 U	2 U	1 U	0.18 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	0.16 U		1 U	1 U	0.16 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	1 U	2 U	5 U	5 U	1 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	0.34 U	1 U	5 U	5 U	0.34 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	0.13 U	1 U	1 U	1 U	0.13 U
Naphthalene	UG/L	0.23	20%			0	1	5		1 U			

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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-18	MW25-19	MW25-19	MW25-19	MW25-19
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20056	25LM20030	25LM20035	25LM20045	25LM20057
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								1/14/2010	6/7/2007	3/3/2008	4/28/2009	1/13/2010
QC CODE								SA	SA	SA	SA	SA
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								6	3	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35	0.4 U	1 U	1 U	1 U	0.4 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10					
Styrene	UG/L	0	0%	GA	5	0	0	55	0.36 U	1 U	1 U	1 U	0.36 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	0.42 U	1 U	1 U	1 U	0.42 U
Toluene	UG/L	14	7%	GA	5	1	4	55	0.21 U	1 U	1 U	1 U	0.21 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20					
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	0.16 U	1 U	1 U	1 U	0.16 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	0.17 U	1 U	1 U	1 U	0.17 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	0.19 U	1 U	1 U	1 U	0.19 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	0.16 U		1 U	1 U	0.16 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	0.22 U	1 U	1 U	1 U	0.22 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10					
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18					
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18					
2,4-Dimethylphenol	UG/L	0	0%			0	0	18					
2,4-Dinitrophenol	UG/L	0	0%			0	0	18					
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					
2-Chloronaphthalene	UG/L	0	0%			0	0	18					
2-Chlorophenol	UG/L	0	0%			0	0	18					
2-Methylnaphthalene	UG/L	0	0%			0	0	18					
2-Methylphenol	UG/L	0	0%			0	0	18					
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18					
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18					
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18					
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18					
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18					
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18					
4-Methylphenol	UG/L	0	0%			0	0	18					
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					
Acenaphthene	UG/L	0.5	6%			0	1	18					
Acenaphthylene	UG/L	2	22%			0	4	18					
Acetophenone	UG/L	0	0%			0	0	18					
Anthracene	UG/L	1	6%			0	1	18					
Atrazine	UG/L	0	0%	GA	7.5	0	0	18					
Benzaldehyde	UG/L	0	0%			0	0	18					
Benzo(a)anthracene	UG/L	0	0%			0	0	18					

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-18	MW25-19	MW25-19	MW25-19	MW25-19
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20056	25LM20030	25LM20035	25LM20045	25LM20057
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/14/2010	6/7/2007	3/3/2008	4/28/2009	1/13/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									6	3	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18					
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18					
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18					
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18					
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18					
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18					
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18					
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18					
Butylbenzylphthalate	UG/L	2	6%			0	1	18					
Caprolactam	UG/L	0	0%			0	0	18					
Carbazole	UG/L	0	0%			0	0	18					
Chrysene	UG/L	0	0%			0	0	18					
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18					
Di-n-octylphthalate	UG/L	0	0%			0	0	18					
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18					
Dibenzofuran	UG/L	0	0%			0	0	18					
Diethyl phthalate	UG/L	0	0%			0	0	18					
Dimethylphthalate	UG/L	0	0%			0	0	18					
Fluoranthene	UG/L	0	0%			0	0	18					
Fluorene	UG/L	0	0%			0	0	18					
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18					
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18					
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18					
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18					
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18					
Isophorone	UG/L	0	0%			0	0	18					
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18					
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18					
Naphthalene	UG/L	2	6%			0	1	18					
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18					
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18					
Phenanthrene	UG/L	0	0%			0	0	18					
Phenol	UG/L	0	0%	GA	1	0	0	18					
Pyrene	UG/L	0	0%			0	0	18					
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	122	**1200** J	**515**	20 J	204
Sodium	UG/L	41900	100%	GA	20000	7	53	53	**28400**	3800 J	4520	3500	4350
Chloride	MG/L	59	72%	GA	250000	0	38	53	51.7	4.5	0.2 U	0.2 U	2.3
Ethane	UG/L	1.1	9%			0	5	53	0.16 U	1.1	1 U	1 U	0.16 U
Ethene	UG/L	4.6	9%			0	5	53	0.17 U	4.6	1 U	1 U	0.17 U
Methane	UG/L	170	38%			0	20	53	0.14 U	29	2 U	2 U	0.14 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24	0.2 J	1.4 J		0.05 U	0.113 J
NITRITE	MG/L	0.73	21%			0	5	24	0.007 UJ	0.72 J		0.01 U	0.007 UJ
Nitrate Nitrogen	MG/L	1	45%			0	13	29			0.194 J		

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SITE LOCATION									SEAD-25		SEAD-25		SEAD-25		SEAD-25	
LOCATION ID									MW25-18		MW25-19		MW25-19		MW25-19	
MATRIX									GW		GW		GW		GW	
SAMPLE ID									25LM20056		25LM20030		25LM20035		25LM20045	
TOP OF SAMPLE									0		0		0		0	
BOTTOM OF SAMPLE									0.1		0.1		0.1		0.1	
SAMPLE DATE									1/14/2010		6/7/2007		3/3/2008		4/28/2009	
QC CODE									SA		SA		SA		SA	
STUDY ID									LTM		LTM		LTM		LTM	
SAMPLE ROUND									6		3		4		5	
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20	0.2	J			0.194			
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29					0.01	UJ		
Sulfate	MG/L	182	100%	GA	250000	0	53	53	26.8	J	23		24.3		30.1	
Field Parameters																
Conductivity	mS/cm	0.858	100%			0	52	52	0.544		0.427		0.478		0.379	
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	4.39		0.05		5.84		3.75	
ORP	mV	259	73%			0	38	52	237		117		161		134	
Sulfide	MG/L	1.04	84%			0	43	51	0.06		0.1		0.01		0.02	
Temperature	deg C	26.55	100%			0	52	52	8		13.4		5.8		7.1	
Turbidity	NTU	195	100%			0	52	52	2.78		17		16.4		1.3	
pH	Std units	7.69	100%			0	52	52	7.28		7.04		7.23		7.15	

SITE LOCATION									SEAD-25		SEAD-25	
LOCATION ID									MW25-19		MW25-19	
MATRIX									GW		GW	
SAMPLE ID									25LM20057		25LM20060	
TOP OF SAMPLE									0		0	
BOTTOM OF SAMPLE									0.1		0.1	
SAMPLE DATE									1/13/2010		6/7/2010	
QC CODE									SA		SA	
STUDY ID									LTM		LTM	
SAMPLE ROUND									6		7	
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20	0.113	J		
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29				
Sulfate	MG/L	182	100%	GA	250000	0	53	53	31	J		
Field Parameters												
Conductivity	mS/cm	0.858	100%			0	52	52	0.445			
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	4.01			
ORP	mV	259	73%			0	38	52	259			
Sulfide	MG/L	1.04	84%			0	43	51	0.02			
Temperature	deg C	26.55	100%			0	52	52	8			
Turbidity	NTU	195	100%			0	52	52	6.1			
pH	Std units	7.69	100%			0	52	52	7.08			

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-2	MW25-2	MW25-2	MW25-2	MW25-2
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20000	25LM20014	25LM20010	25LM20020	25LM20031
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/12/2006	8/9/2006	8/9/2006	6/6/2007	3/4/2008
QC CODE									SA	DU	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	2	3	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	5 U	1 U	1 U	1 UJ	1 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	5 U	1 U	1 U		1 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	5 U	1 U	1 U	1 UJ	1 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	5 U	1 U	1 U	1 UJ	1 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	1 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	5 UJ	1 U	1 U		1 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U	1 U		
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	5 UJ	1 U	1 U		2 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	5 U	1 U	1 U	1 UJ	1 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	5 U	1 U	1 U		1 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	5 U	1 U	1 U	1 UJ	1 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	5 U	1 U	1 U	1 UJ	1 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U	1 U		
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	5 U	1 U	1 U		1 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	5 U	1 U	1 U		1 U
Acetone	UG/L	1.4	2%			0	1	55	25 U	7.6 UJ	10 UJ	5 UJ	10 UJ
Benzene	UG/L	33	24%	GA	1	10	13	55	**16**	**2.2**	**2**	**15** J	0.51 J
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	5 U	1 U	1 U	2 UJ	1 UJ
Carbon disulfide	UG/L	0	0%			0	0	55	5 U	1 U	1 U	1 UJ	1 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	5 UJ	1 UJ	1 UJ	1 UJ	2 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	5 U	1 U	1 U	1.5 J	1 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Cyclohexane	UG/L	8.6	8%			0	4	50	8.6	1 U	1 U		1 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	5 U	1 U	1 U		1 UJ
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	**19**	0.98 J	0.77 J	**12** J	0.67 J
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	5 U	1 U	1 U	0.45 J	1 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35				1.9 J	0.71 J
Methyl Acetate	UG/L	0	0%			0	0	50	5 UJ	1 U	1 U		10 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	5 U	1 U	1 U	1 UJ	1 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 U	2 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	25 U	5 U	5 U	2 U	5 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	2 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	4.2 J	1 U	1 U		1 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	25 U	5 UJ	5 UJ	2 UJ	0.59 J
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	25 U	5 U	5 U	1 UJ	5 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	5 U	1 UJ	1 UJ	1 UJ	1 U
Naphthalene	UG/L	0.23	20%			0	1	5				0.23 J	

Appendix A Table A-1
SEAD-25 Historic Groundwater Results
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-2	MW25-2	MW25-2	MW25-2	MW25-2
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20000	25LM20014	25LM20010	25LM20020	25LM20031
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/12/2006	8/9/2006	8/9/2006	6/6/2007	3/4/2008
QC CODE									SA	DU	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	2	3	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35				1 UJ	1 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U	1 U		
Styrene	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Toluene	UG/L	14	7%	GA	5	1	4	55	5 U	1 U	1 U	1.6 U	1 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20	15 U	3 U	3 U		
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	5 U	1 U	1 U	1 UJ	1 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	5 U	1 U	1 U	0.51 J	1 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	5 U	1 U	1 U		1 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	5 U	1 U	1 U	1 UJ	1 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10		1 U	1 U		
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U	10 U		
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U	10 U		
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
2,4-Dimethylphenol	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
2,4-Dinitrophenol	UG/L	0	0%			0	0	18	49 U	49 U	48 U		
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
2-Chloronaphthalene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
2-Chlorophenol	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
2-Methylnaphthalene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
2-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	49 U	49 U	48 U		
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U	10 U		
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	20 U	20 U	19 U		
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	49 U	49 U	48 U		
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	49 U	49 U	48 U		
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U	10 U		
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
4-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	49 U	49 U	48 U		
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	49 U	49 U	48 U		
Acenaphthene	UG/L	0.5	6%			0	1	18	10 U	10 U	10 U		
Acenaphthylene	UG/L	2	22%			0	4	18	10 U	10 U	10 U		
Acetophenone	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Anthracene	UG/L	1	6%			0	1	18	10 U	10 U	10 U		
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	10 U	10 U	10 U		
Benzaldehyde	UG/L	0	0%			0	0	18	49 U	49 U	48 U		
Benzo(a)anthracene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		

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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-2	MW25-2	MW25-2	MW25-2	MW25-2
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20000	25LM20014	25LM20010	25LM20020	25LM20031
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								4/12/2006	8/9/2006	8/9/2006	6/6/2007	3/4/2008
QC CODE								SA	DU	SA	SA	SA
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								1	2	2	3	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	10 U	10 U	10 U		
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18	10 U	10 U	10 U		
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	10 U	10 U	10 U		
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	10 U	10 U	10 U		
Butylbenzylphthalate	UG/L	2	6%			0	1	18	10 U	10 U	10 U		
Caprolactam	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Carbazole	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Chrysene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	10 U	10 U	10 U		
Di-n-octylphthalate	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Dibenzofuran	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Diethyl phthalate	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Dimethylphthalate	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Fluorene	UG/L	0	0%			0	0	18	10 U	10 UJ	10 UJ		
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	10 U	10 U	10 U		
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	10 U	10 U	10 U		
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	44 U	44 U	43 U		
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U	10 U		
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Isophorone	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Naphthalene	UG/L	2	6%			0	1	18	10 U	10 U	10 U		
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	10 U	10 U	10 U		
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	49 U	49 U	48 U		
Phenanthrene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Phenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U	10 U		
Pyrene	UG/L	0	0%			0	0	18	10 U	10 U	10 U		
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	**2510** J	**727**	**606**	**2600** J	**711**
Sodium	UG/L	41900	100%	GA	20000	7	53	53	4730	5510 J	5690 J	6000 J	3460
Chloride	MG/L	59	72%	GA	250000	0	38	53	6.5	2.2 J	2.2 J	4	0.2 U
Ethane	UG/L	1.1	9%			0	5	53	2 U	10 U	10 U	0.24	1 U
Ethene	UG/L	4.6	9%			0	5	53	2 U	10 U	10 U	4.2	1 U
Methane	UG/L	170	38%			0	20	53	80 J	35	36	170	3.2 J
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24				0.5 J	
NITRITE	MG/L	0.73	21%			0	5	24				0.5	
Nitrate Nitrogen	MG/L	1	45%			0	13	29	0.05 U	0.05 U	0.05 U		0.305 J

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-2	MW25-2	MW25-2	MW25-2	MW25-2
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20000	25LM20014	25LM20010	25LM20020	25LM20031
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/12/2006	8/9/2006	8/9/2006	6/6/2007	3/4/2008
QC CODE									SA	DU	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	2	3	4
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20					0.305
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29	0.05 U	0.05 U	0.05 U		0.01 UJ
Sulfate	MG/L	182	100%	GA	250000	0	53	53	39.6	31	33.2	22	31.1
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.551	0.562	0.562	0.454	0.64
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	6.29	0.3	0.3	0.07	1.35
ORP	mV	259	73%			0	38	52	-11	-82	-82	-92	-60
Sulfide	MG/L	1.04	84%			0	43	51	0.01	0.15	0.15		0
Temperature	deg C	26.55	100%			0	52	52	10.5	26.55	26.55	12.4	3.2
Turbidity	NTU	195	100%			0	52	52	16.1	2.3	2.3	11	2.78
pH	Std units	7.69	100%			0	52	52	7.17	6.93	6.93	7.11	7.15

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-2	MW25-2	MW25-2	MW25-2	MW25-3
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20048	25LM20042	25LM20054	25LM20053	25LM20001
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/29/2009	4/29/2009	1/11/2010	1/11/2010	1/31/2006
QC CODE									DU	SA	DU	SA	DU
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									5	5	6	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	1 U	3.2 U	3.2 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	0.9 U	0.9 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	4 U	4 U	1 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	2 U	2 U	1 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1.4	1.3	1.5 U	1.5 U	1 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	3.7 U	3.7 U	1 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1.9 U	1.9 U	1 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10					
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	2 U	2 U	4.3 U	4.3 U	1 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1.8 U	1.8 U	1 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	4 U	4 U	1 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	1 U	1.5 U	1.5 U	1 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1.5 U	1.5 U	1 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10					
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	3.6 U	3.6 U	1 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	3.5 U	3.5 U	1 U
Acetone	UG/L	1.4	2%			0	1	55	20 UJ	35 UJ	50 U	50 U	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	**20**	**17**	**4** J	1.8 U	1 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1.8 U	1.8 U	1 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	2 U	2 U	1 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	3.6 U	3.6 UJ	1 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	3.6 U	3.6 U	1 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	2.6 U	2.6 U	1 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1.1 U	1.1 U	1 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	0.67 J	0.51 J	2.1 U	2.1 U	1 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1.6 U	1.6 U	1 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	3.6	3.6	2.8 J	2 J	1 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1.5 U	1.5 U	1 U
Cyclohexane	UG/L	8.6	8%			0	4	50	4.8 J	6.7 J	1.5 U	1.5 U	1 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1.8 U	1.8 U	1 UJ
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	**11**	**11**	4.2 U	4.2 U	1 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1.3 J	1.8 J	3.5 U	3.5 U	1 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35	2 U	2 U	8.2 U	8.2 U	
Methyl Acetate	UG/L	0	0%			0	0	50	2 U	2 U	4.7 U	4.7 U	1 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1.3 U	1.3 U	1 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 UJ	1 UJ	4 U	4 U	1 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	4 U	4 U	5 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1.8 U	1.8 U	1 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	2 J	3.9 J	1.6 U	1.6 U	1 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	4.3 J	9 J	10 U	10 U	5 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	3.5 U	3.5 U	5 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1.3 U	1.3 U	1 U
Naphthalene	UG/L	0.23	20%			0	1	5					

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-2	MW25-2	MW25-2	MW25-2	MW25-3
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20048	25LM20042	25LM20054	25LM20053	25LM20001
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/29/2009	4/29/2009	1/11/2010	1/11/2010	1/31/2006
QC CODE									DU	SA	DU	SA	DU
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									5	5	6	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35	1 U	1 U	4 U	4 U	
Propylbenzene	UG/L	0	0%	GA	5	0	0	10					
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 UJ	3.6 U	3.6 U	1 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	4.2 U	4.2 U	1 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1.3	1.2	2.1 U	2.1 U	1 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20					3 U
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1.6 U	1.6 U	1 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1.8 U	1.8 U	1 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	1 U	1.9 U	1.9 U	1 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1.6 U	1.6 U	1 UJ
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	2.2 U	2.2 U	1 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10					
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18					9 U
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					9 U
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					9 U
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18					9 U
2,4-Dimethylphenol	UG/L	0	0%			0	0	18					9 U
2,4-Dinitrophenol	UG/L	0	0%			0	0	18					47 U
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					9 U
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					9 U
2-Chloronaphthalene	UG/L	0	0%			0	0	18					9 U
2-Chlorophenol	UG/L	0	0%			0	0	18					9 U
2-Methylnaphthalene	UG/L	0	0%			0	0	18					9 U
2-Methylphenol	UG/L	0	0%			0	0	18					9 U
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					47 U
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					9 U
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18					19 U
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					47 U
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18					47 U
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18					9 U
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18					9 U
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18					9 U
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18					9 U
4-Methylphenol	UG/L	0	0%			0	0	18					9 U
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					47 U
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					47 UJ
Acenaphthene	UG/L	0.5	6%			0	1	18					9 U
Acenaphthylene	UG/L	2	22%			0	4	18					9 U
Acetophenone	UG/L	0	0%			0	0	18					9 U
Anthracene	UG/L	1	6%			0	1	18					9 U
Atrazine	UG/L	0	0%	GA	7.5	0	0	18					9 U
Benzaldehyde	UG/L	0	0%			0	0	18					47 U
Benzo(a)anthracene	UG/L	0	0%			0	0	18					9 U

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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-2	MW25-2	MW25-2	MW25-2	MW25-3
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20048	25LM20042	25LM20054	25LM20053	25LM20001
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								4/29/2009	4/29/2009	1/11/2010	1/11/2010	1/31/2006
QC CODE								DU	SA	DU	SA	DU
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								5	5	6	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18					9 U
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18					9 U
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18					9 U
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18					9 U
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18					9 U
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18					9 U
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18					9 U
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18					9 U
Butylbenzylphthalate	UG/L	2	6%			0	1	18					9 U
Caprolactam	UG/L	0	0%			0	0	18					9 U
Carbazole	UG/L	0	0%			0	0	18					9 U
Chrysene	UG/L	0	0%			0	0	18					9 U
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18					9 U
Di-n-octylphthalate	UG/L	0	0%			0	0	18					9 U
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18					9 U
Dibenzofuran	UG/L	0	0%			0	0	18					9 U
Diethyl phthalate	UG/L	0	0%			0	0	18					9 U
Dimethylphthalate	UG/L	0	0%			0	0	18					9 U
Fluoranthene	UG/L	0	0%			0	0	18					9 U
Fluorene	UG/L	0	0%			0	0	18					9 U
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18					9 U
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18					9 U
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18					42 U
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18					9 U
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18					9 U
Isophorone	UG/L	0	0%			0	0	18					9 U
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18					9 U
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18					9 U
Naphthalene	UG/L	2	6%			0	1	18					9 U
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18					9 U
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18					47 U
Phenanthrene	UG/L	0	0%			0	0	18					9 U
Phenol	UG/L	0	0%	GA	1	0	0	18					9 U
Pyrene	UG/L	0	0%			0	0	18					9 U
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	**15700**	**14400**	**2410**	**2900**	86 J
Sodium	UG/L	41900	100%	GA	20000	7	53	53	7100	7100	7720	7880	12300
Chloride	MG/L	59	72%	GA	250000	0	38	53	2.2	2.2	2.8	0.5 U	2.1
Ethane	UG/L	1.1	9%			0	5	53	1 U	1 U	0.16 U	0.16 U	2 U
Ethene	UG/L	4.6	9%			0	5	53	1 U	1 U	0.17 U	0.17 U	2 U
Methane	UG/L	170	38%			0	20	53	64	68	22	20	2 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24	0.05 U	0.05 U	0.05 UJ	0.199 J	
NITRITE	MG/L	0.73	21%			0	5	24	0.01 U	0.01 U	0.007 UJ	0.007 UJ	
Nitrate Nitrogen	MG/L	1	45%			0	13	29					0.05 U

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-2	MW25-2	MW25-2	MW25-2	MW25-3
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20048	25LM20042	25LM20054	25LM20053	25LM20001
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									4/29/2009	4/29/2009	1/11/2010	1/11/2010	1/31/2006
QC CODE									DU	SA	DU	SA	DU
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									5	5	6	6	1
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20			0.003 UJ	0.199 J	
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29					0.05 U
Sulfate	MG/L	182	100%	GA	250000	0	53	53	82.6	75.8	64.8 J	64.4 J	39.9
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.702	0.702	0.573	0.573	0.49
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	0.11	0.11	0.41	0.41	1.19
ORP	mV	259	73%			0	38	52	-115	-115	-151	-151	79
Sulfide	MG/L	1.04	84%			0	43	51	0.04	0.04	0.16	0.16	0.04
Temperature	deg C	26.55	100%			0	52	52	8.1	8.1	6.3	6.3	4.3
Turbidity	NTU	195	100%			0	52	52	0.9	0.9	1.06	1.06	2.2
pH	Std units	7.69	100%			0	52	52	6.84	6.84	7.25	7.25	7.1

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-3	MW25-3	MW25-3	MW25-3	MW25-3
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20002	25LM20011	25LM20036	25LM20046	25LM20060
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	0.32 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.09 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	0.4 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.2 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1 U	1 U	1 U	1 U	0.14 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.37 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	0.19 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	1 U	1 U	2 U	2 U	0.43 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1 U	1 U	0.18 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.4 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	1 U	1 U	1 U	0.14 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.15 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.36 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.34 U
Acetone	UG/L	1.4	2%			0	1	55	5 U	5.9 UJ	10 UJ	5 U	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	1 U	1 U	1 U	**1.7**	0.18 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 UJ	1 U	0.2 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.36 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.26 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.11 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 U	1 U	2 U	1 U	0.21 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	1 U	1 U	1 U	1 U	0.14 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.14 U
Cyclohexane	UG/L	8.6	8%			0	4	50	1 U	1 U	1 U	1 U	0.14 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 UJ	1 U	0.18 U
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	1 U	1 U	1 U	1 U	0.42 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1 U	1 U	1 U	1 U	0.34 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35			1 U	2 U	0.81 U
Methyl Acetate	UG/L	0	0%			0	0	50	1 U	1 U	10 U	2 U	0.48 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.13 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 U	1 UJ	2 U	1 UJ	0.4 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	0.4 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	2 U	1 U	0.18 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	1 U	1 U	1 U	1 U	0.16 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	5 U	5 U	5 U	5 U	1 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	0.34 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.13 U
Naphthalene	UG/L	0.23	20%			0	1	5					

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-3	MW25-3	MW25-3	MW25-3	MW25-3
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20002	25LM20011	25LM20036	25LM20046	25LM20060
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35			1 U	1 U	0.4 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.42 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1 U	1 U	1 U	1 U	0.21 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20	3 U	3 U			
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	0.19 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 U	1 U	0.16 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	1 U	1 U	0.22 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10		1 U			
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,4-Dimethylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
2,4-Dinitrophenol	UG/L	0	0%			0	0	18	48 U	48 U			
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2-Chloronaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			
2-Chlorophenol	UG/L	0	0%			0	0	18	10 U	10 U			
2-Methylnaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			
2-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	19 U	19 U			
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			
4-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	48 UJ	48 U			
Acenaphthene	UG/L	0.5	6%			0	1	18	10 U	10 U			
Acenaphthylene	UG/L	2	22%			0	4	18	10 U	10 U			
Acetophenone	UG/L	0	0%			0	0	18	10 U	10 U			
Anthracene	UG/L	1	6%			0	1	18	10 U	10 U			
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	10 U	10 U			
Benzaldehyde	UG/L	0	0%			0	0	18	48 U	48 U			
Benzo(a)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-3	MW25-3	MW25-3	MW25-3	MW25-3
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20002	25LM20011	25LM20036	25LM20046	25LM20060
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	10 U	10 U			
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18	10 U	10 U			
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	10 U	10 U			
Butylbenzylphthalate	UG/L	2	6%			0	1	18	10 U	10 U			
Caprolactam	UG/L	0	0%			0	0	18	10 U	10 U			
Carbazole	UG/L	0	0%			0	0	18	10 U	10 U			
Chrysene	UG/L	0	0%			0	0	18	10 U	10 U			
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	10 U	10 U			
Di-n-octylphthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			
Dibenzofuran	UG/L	0	0%			0	0	18	10 U	10 U			
Diethyl phthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Dimethylphthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Fluorene	UG/L	0	0%			0	0	18	10 U	10 U			
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	10 U	10 U			
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	10 U	10 U			
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	44 U	43 U			
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18	10 U	10 U			
Isophorone	UG/L	0	0%			0	0	18	10 U	10 U			
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18	10 U	10 U			
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18	10 U	10 U			
Naphthalene	UG/L	2	6%			0	1	18	10 U	10 U			
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	10 U	10 U			
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			
Phenanthrene	UG/L	0	0%			0	0	18	10 U	10 U			
Phenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
Pyrene	UG/L	0	0%			0	0	18	10 U	10 U			
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	76.4 J	**3820**	107	**1570**	**702**
Sodium	UG/L	41900	100%	GA	20000	7	53	53	12000	11300 J	5540	9000	7370
Chloride	MG/L	59	72%	GA	250000	0	38	53	2.3	1.5 J	2.66	3.3	2.8
Ethane	UG/L	1.1	9%			0	5	53	2 U	2 U	1 U	1 U	0.16 U
Ethene	UG/L	4.6	9%			0	5	53	2 U	2 U	1 U	1 U	0.17 U
Methane	UG/L	170	38%			0	20	53	2 U	2 U	0.34 J	13	0.14 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24				0.05 U	0.05 UJ
NITRITE	MG/L	0.73	21%			0	5	24				0.01 U	0.007 UJ
Nitrate Nitrogen	MG/L	1	45%			0	13	29	0.05 U	0.05 U	0.098 J		

Appendix A Table A-1
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-3	MW25-3	MW25-3	MW25-3	MW25-3
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20002	25LM20011	25LM20036	25LM20046	25LM20060
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20			0.098		0.003 UJ
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29	0.05 U	0.05 U	0.01 UJ		
Sulfate	MG/L	182	100%	GA	250000	0	53	53	39.8	44.9	100	122	182 J
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.49	0.686	0.675	0.627	0.741
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	1.19	3.6	0.87	0.19	1.78
ORP	mV	259	73%			0	38	52	79	77.9	124	-102	-63
Sulfide	MG/L	1.04	84%			0	43	51	0.04	0.03	0.01	0.42	0.04
Temperature	deg C	26.55	100%			0	52	52	4.3	21.54	3.5	7.9	4.9
Turbidity	NTU	195	100%			0	52	52	2.2	1.2	2	0.35	3
pH	Std units	7.69	100%			0	52	52	7.1	7.02	7.15	7.03	6.51

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

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SEAD-25 Historic Groundwater Results
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-8	MW25-8	MW25-8	MW25-8	MW25-8
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20003	25LM20012	25LM20037	25LM20047	25LM20059
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/13/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	0.32 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.09 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	0.4 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.2 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1 U	1 U	1 U	1 U	0.14 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.37 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	0.19 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	1 U	1 U	2 U	2 U	0.43 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1 U	1 U	0.18 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.4 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	1 U	1 U	1 U	1 U	0.14 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.15 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.36 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.34 U
Acetone	UG/L	1.4	2%			0	1	55	5 U	5 U	10 UJ	10 U	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	1 U	1 U	1 U	1 U	0.18 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 UJ	1 U	0.2 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.36 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.26 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.11 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 U	1 U	2 U	1 U	0.21 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	1 U	1 U	1 U	1 U	0.14 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.14 U
Cyclohexane	UG/L	8.6	8%			0	4	50	1 U	1 U	1 U	1 U	0.14 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 UJ	1 U	0.18 U
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	1 U	1 U	1 U	1 U	0.42 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	1 U	1 U	1 U	1 U	0.34 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35			1 U	2 U	0.81 U
Methyl Acetate	UG/L	0	0%			0	0	50	1 U	1 U	10 U	2 U	0.48 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.13 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 U	1 UJ	2 U	1 UJ	0.4 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	0.4 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	2 U	1 U	0.18 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	1 U	1 U	1 U	1 U	0.16 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	5 U	5 U	5 U	2.3 J	1 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	0.34 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.13 U
Naphthalene	UG/L	0.23	20%			0	1	5					

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-8	MW25-8	MW25-8	MW25-8	MW25-8
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20003	25LM20012	25LM20037	25LM20047	25LM20059
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/13/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35			1 U	1 U	0.4 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.42 U
Toluene	UG/L	14	7%	GA	5	1	4	55	1 U	1 U	1 U	1 U	0.21 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20	3 U	3 U			
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	1 U	1 U	1 U	1 U	0.19 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 U	1 U	0.16 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	1 U	1 U	0.22 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10		1 U			
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	9 U	10 U			
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	9 U	10 U			
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
2,4-Dimethylphenol	UG/L	0	0%			0	0	18	9 U	10 U			
2,4-Dinitrophenol	UG/L	0	0%			0	0	18	47 U	49 U			
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
2-Chloronaphthalene	UG/L	0	0%			0	0	18	9 U	10 U			
2-Chlorophenol	UG/L	0	0%			0	0	18	9 U	10 U			
2-Methylnaphthalene	UG/L	0	0%			0	0	18	9 U	10 U			
2-Methylphenol	UG/L	0	0%			0	0	18	9 U	10 U			
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	47 U	49 U			
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	9 U	10 U			
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	19 U	20 U			
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	47 U	49 U			
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	47 U	49 U			
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18	9 U	10 U			
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	9 U	10 U			
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18	9 U	10 U			
4-Methylphenol	UG/L	0	0%			0	0	18	9 U	10 U			
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	47 U	49 U			
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	47 U	49 U			
Acenaphthene	UG/L	0.5	6%			0	1	18	0.5 J	10 U			
Acenaphthylene	UG/L	2	22%			0	4	18	2 J	10 U			
Acetophenone	UG/L	0	0%			0	0	18	9 U	10 U			
Anthracene	UG/L	1	6%			0	1	18	1 J	10 U			
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	9 U	10 U			
Benzaldehyde	UG/L	0	0%			0	0	18	47 U	49 U			
Benzo(a)anthracene	UG/L	0	0%			0	0	18	9 U	10 U			

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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-8	MW25-8	MW25-8	MW25-8	MW25-8
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20003	25LM20012	25LM20037	25LM20047	25LM20059
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/13/2010
QC CODE								SA	SA	SA	SA	SA
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	9 U	10 U			
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18	9 U	10 U			
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18	0.6 J	10 U			
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18	9 U	10 U			
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	9 U	10 U			
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	9 U	10 U			
Butylbenzylphthalate	UG/L	2	6%			0	1	18	9 U	10 U			
Caprolactam	UG/L	0	0%			0	0	18	9 U	10 U			
Carbazole	UG/L	0	0%			0	0	18	9 U	10 U			
Chrysene	UG/L	0	0%			0	0	18	9 U	10 U			
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	9 U	10 U			
Di-n-octylphthalate	UG/L	0	0%			0	0	18	9 U	10 U			
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18	9 U	10 U			
Dibenzofuran	UG/L	0	0%			0	0	18	9 U	10 U			
Diethyl phthalate	UG/L	0	0%			0	0	18	9 U	10 U			
Dimethylphthalate	UG/L	0	0%			0	0	18	9 U	10 U			
Fluoranthene	UG/L	0	0%			0	0	18	9 U	10 U			
Fluorene	UG/L	0	0%			0	0	18	9 U	10 U			
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	9 U	10 U			
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	9 U	10 U			
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	42 U	44 U			
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	9 U	10 U			
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18	9 U	10 U			
Isophorone	UG/L	0	0%			0	0	18	9 U	10 U			
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18	9 U	10 U			
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18	9 U	10 U			
Naphthalene	UG/L	2	6%			0	1	18	9 U	10 U			
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	9 U	10 U			
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	47 U	49 U			
Phenanthrene	UG/L	0	0%			0	0	18	9 U	10 U			
Phenol	UG/L	0	0%	GA	1	0	0	18	9 U	10 U			
Pyrene	UG/L	0	0%			0	0	18	9 U	10 U			
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	**329** J	**667**	**349**	**620**	**408**
Sodium	UG/L	41900	100%	GA	20000	7	53	53	5110	7060 J	4180	6000	9740
Chloride	MG/L	59	72%	GA	250000	0	38	53	1.4	0.73 J	0.2 U	3.2	0.5 U
Ethane	UG/L	1.1	9%			0	5	53	2 U	2 U	1 U	1 U	0.16 U
Ethene	UG/L	4.6	9%			0	5	53	2 U	2 U	1 U	1 U	0.17 U
Methane	UG/L	170	38%			0	20	53	2 U	2 U	0.36 J	16	0.14 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24				0.05 U	0.05 UJ
NITRITE	MG/L	0.73	21%			0	5	24				0.016	0.007 UJ
Nitrate Nitrogen	MG/L	1	45%			0	13	29	0.05 U	0.13	0.607 J		

Appendix A Table A-1
SEAD-25 Historic Groundwater Results
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SITE LOCATION								SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID								MW25-8	MW25-8	MW25-8	MW25-8	MW25-8
MATRIX								GW	GW	GW	GW	GW
SAMPLE ID								25LM20003	25LM20012	25LM20037	25LM20047	25LM20059
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.1	0.1	0.1	0.1	0.1
SAMPLE DATE								1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/13/2010
QC CODE								SA	SA	SA	SA	SA
STUDY ID								LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND								1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20			0.607		0.003 UJ
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29	0.05 U	0.05 U	0.01 UJ		
Sulfate	MG/L	182	100%	GA	250000	0	53	53	19.5	28.2	17.3	20.7	35.2 J
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.494	0.72	0.427		0.342
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	0.84	2.92	2.21		2.67
ORP	mV	259	73%			0	38	52	-70	33.4	61		230
Sulfide	MG/L	1.04	84%			0	43	51	0.04	0.09	0.03	0.01	0.03
Temperature	deg C	26.55	100%			0	52	52	4.1	25.01	2.7		4.7
Turbidity	NTU	195	100%			0	52	52	2.4	8.7	5.1		2.2
pH	Std units	7.69	100%			0	52	52	7.3	6.97	7.46		7.36

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

Appendix A Table A-1
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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-9	MW25-9	MW25-9	MW25-9	MW25-9
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20004	25LM20013	25LM20038	25LM20049	25LM20058
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/L	0.62	4%	GA	5	0	2	55	0.62 J	1 U	1 U	1 U	0.32 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.09 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	0.4 U
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.2 U
1,1-Dichloroethane	UG/L	1.4	5%	GA	5	0	3	55	1	1 U	1 U	1 U	0.14 U
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.37 U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	50	1 U	1 U	1 U	1 U	0.19 U
1,2,4-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	50	1 U	1 U	2 U	2 U	0.43 U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	55	1 U	1 U	1 U	1 U	0.18 U
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.4 U
1,2-Dichloroethane	UG/L	0.49	2%	GA	0.6	0	1	55	0.49 J	1 U	1 U	1 U	0.14 U
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	55	1 U	1 U	1 U	1 U	0.15 U
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.36 U
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	50	1 U	1 U	1 U	1 U	0.34 U
Acetone	UG/L	1.4	2%			0	1	55	5 U	63 UJ	10 UJ	10 U	5 U
Benzene	UG/L	33	24%	GA	1	10	13	55	**33**	0.58 J	**2.3**	0.46 J	0.18 U
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Bromoform	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 UJ	1 U	0.2 U
Carbon disulfide	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.36 U
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Chlorobenzene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.26 U
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	55	1 U	1 U	1 U	1 U	0.11 U
Chloroethane	UG/L	0.67	4%	GA	5	0	2	55	1 U	1 UJ	2 U	1 U	0.21 U
Chloroform	UG/L	0	0%	GA	7	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Cis-1,2-Dichloroethene	UG/L	3.6	13%	GA	5	0	7	55	2.8	1 U	1 U	1 U	0.14 U
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.14 U
Cyclohexane	UG/L	8.6	8%			0	4	50	8 J	1 U	1 U	1 U	0.14 U
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 UJ	1 U	0.18 U
Ethyl benzene	UG/L	19	15%	GA	5	5	8	55	**15**	1 U	1 U	1 U	0.42 U
Isopropylbenzene	UG/L	2.6	7%	GA	5	0	4	55	2.6	1 U	1 U	1 U	0.34 U
Meta/Para Xylene	UG/L	1.9	9%	GA	5	0	3	35			0.43 J	2 U	0.81 U
Methyl Acetate	UG/L	0	0%			0	0	50	1 U	1 U	10 U	2 U	0.48 U
Methyl Tertbutyl Ether	UG/L	0	0%			0	0	55	1 U	1 U	1 U	1 U	0.13 U
Methyl bromide	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	2 U	1 UJ	0.4 U
Methyl butyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	0.4 U
Methyl chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	2 U	1 U	0.18 U
Methyl cyclohexane	UG/L	4.2	8%			0	4	50	1.9 J	1 U	1 U	1 U	0.16 U
Methyl ethyl ketone	UG/L	9	13%			0	7	55	5 U	5 UJ	5 U	5 U	1 U
Methyl isobutyl ketone	UG/L	0	0%			0	0	55	5 U	5 U	5 U	5 U	0.34 U
Methylene chloride	UG/L	0	0%	GA	5	0	0	55	1 U	1 UJ	1 U	1 U	0.13 U
Naphthalene	UG/L	0.23	20%			0	1	5					

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-9	MW25-9	MW25-9	MW25-9	MW25-9
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20004	25LM20013	25LM20038	25LM20049	25LM20058
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ortho Xylene	UG/L	1.5	3%	GA	5	0	1	35			1.5	1 U	0.4 U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10		1 U			
Styrene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.36 U
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.42 U
Toluene	UG/L	14	7%	GA	5	1	4	55	**14**	1 U	0.39 J	1 U	0.21 U
Total Xylenes	UG/L	62	5%	GA	5	1	1	20	**62**	3 U			
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	55	1 U	1 U	1 U	1 U	0.16 U
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	55	1 U	1 U	1 U	1 U	0.17 U
Trichloroethene	UG/L	0.53	4%	GA	5	0	2	55	0.53 J	1 U	1 U	1 U	0.19 U
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	50	1 UJ	1 U	1 U	1 U	0.16 U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	55	1 U	1 U	1 U	1 U	0.22 U
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10		1 U			
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,4-Dimethylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
2,4-Dinitrophenol	UG/L	0	0%			0	0	18	48 U	48 U			
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
2-Chloronaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			
2-Chlorophenol	UG/L	0	0%			0	0	18	10 U	10 U			
2-Methylnaphthalene	UG/L	0	0%			0	0	18	10 U	10 U			
2-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	19 U	19 U			
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			
4-Bromophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
4-Chlorophenyl phenyl ether	UG/L	0	0%			0	0	18	10 U	10 U			
4-Methylphenol	UG/L	0	0%			0	0	18	10 U	10 U			
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U	48 U			
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			
Acenaphthene	UG/L	0.5	6%			0	1	18	10 U	10 U			
Acenaphthylene	UG/L	2	22%			0	4	18	1 J	10 U			
Acetophenone	UG/L	0	0%			0	0	18	10 U	10 U			
Anthracene	UG/L	1	6%			0	1	18	10 U	10 U			
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	10 U	10 U			
Benzaldehyde	UG/L	0	0%			0	0	18	48 U	48 U			
Benzo(a)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-9	MW25-9	MW25-9	MW25-9	MW25-9
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20004	25LM20013	25LM20038	25LM20049	25LM20058
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	10 U	10 U			
Benzo(b)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Benzo(ghi)perylene	UG/L	0.6	6%			0	1	18	10 U	10 U			
Benzo(k)fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	10 U	10 U			
Butylbenzylphthalate	UG/L	2	6%			0	1	18	10 U	10 U			
Caprolactam	UG/L	0	0%			0	0	18	10 U	10 U			
Carbazole	UG/L	0	0%			0	0	18	10 U	10 U			
Chrysene	UG/L	0	0%			0	0	18	10 U	10 U			
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	10 U	10 U			
Di-n-octylphthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Dibenz(a,h)anthracene	UG/L	0	0%			0	0	18	10 U	10 U			
Dibenzofuran	UG/L	0	0%			0	0	18	10 U	10 U			
Diethyl phthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Dimethylphthalate	UG/L	0	0%			0	0	18	10 U	10 U			
Fluoranthene	UG/L	0	0%			0	0	18	10 U	10 U			
Fluorene	UG/L	0	0%			0	0	18	10 U	10 UJ			
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	10 U	10 U			
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	10 U	10 U			
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	43 U	43 U			
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	10 U	10 U			
Indeno(1,2,3-cd)pyrene	UG/L	0	0%			0	0	18	10 U	10 U			
Isophorone	UG/L	0	0%			0	0	18	10 U	10 U			
N-Nitrosodiphenylamine	UG/L	0	0%			0	0	18	10 U	10 U			
N-Nitrosodipropylamine	UG/L	0	0%			0	0	18	10 U	10 U			
Naphthalene	UG/L	2	6%			0	1	18	2 J	10 U			
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	10 U	10 U			
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	48 U	48 U			
Phenanthrene	UG/L	0	0%			0	0	18	10 U	10 U			
Phenol	UG/L	0	0%	GA	1	0	0	18	10 U	10 U			
Pyrene	UG/L	0	0%			0	0	18	10 U	10 U			
Inorganics													
Iron	UG/L	15700	87%	GA	300	31	46	53	56.9 J	12 U	100 U	**9440**	**916**
Sodium	UG/L	41900	100%	GA	20000	7	53	53	14500	16400 J	8380	**26000**	16500
Chloride	MG/L	59	72%	GA	250000	0	38	53	1.1	0.99 J	0.2 U	2.7	0.5 U
Ethane	UG/L	1.1	9%			0	5	53	2 U	2 U	1 U	1 U	0.16 U
Ethene	UG/L	4.6	9%			0	5	53	2 U	2 U	1 U	1 U	0.17 U
Methane	UG/L	170	38%			0	20	53	29	2 U	2.4 J	3.5	0.14 U
NITRATE	MG/L	6.4	38%	GA	10000	0	9	24				0.05 U	0.05 UJ
NITRITE	MG/L	0.73	21%			0	5	24				0.01 U	0.007 UJ
Nitrate Nitrogen	MG/L	1	45%			0	13	29	0.05 U	0.1	0.05 UJ		

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SITE LOCATION									SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
LOCATION ID									MW25-9	MW25-9	MW25-9	MW25-9	MW25-9
MATRIX									GW	GW	GW	GW	GW
SAMPLE ID									25LM20004	25LM20013	25LM20038	25LM20049	25LM20058
TOP OF SAMPLE									0	0	0	0	0
BOTTOM OF SAMPLE									0.1	0.1	0.1	0.1	0.1
SAMPLE DATE									1/31/2006	8/9/2006	3/4/2008	4/29/2009	1/12/2010
QC CODE									SA	SA	SA	SA	SA
STUDY ID									LTM	LTM	LTM	LTM	LTM
SAMPLE ROUND									1	2	4	5	6
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Cleanup Goal [1]**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Nitrate/Nitrite Nitrogen	MG/L	1	65%	GA	10000	0	13	20			0.05 U		0.003 UJ
Nitrite Nitrogen	MG/L	0.087	3%			0	1	29	0.05 U	0.05 U	0.01 UJ		
Sulfate	MG/L	182	100%	GA	250000	0	53	53	21.8	25.3	24.8	39.7	35.3 J
Field Parameters													
Conductivity	mS/cm	0.858	100%			0	52	52	0.535	0.718	0.59		0.427
Dissolved Oxygen	MG/L	8.46	100%			0	49	49	5.33	5.22	2.02		
ORP	mV	259	73%			0	38	52	91	62.5	99		-72
Sulfide	MG/L	1.04	84%			0	43	51	0.02	0.45	0	0.12	0.01
Temperature	deg C	26.55	100%			0	52	52	4.8	23.11	3.3		3.62
Turbidity	NTU	195	100%			0	52	52	2.49	3.38	1.3		2.8
pH	Std units	7.69	100%			0	52	52	7.15	7.15	7.33		6.73

Notes:
1. The cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate

APPENDIX B

FIELD FORMS

ROUND 5

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-2
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5		DATE: 4/29/09
LOCATION: ROMULUS, NY		INSPECTORS: DBO
		PUMP #:
		SAMPLE ID #: 25LM20042

MS/MSD: 25LM20042 ; Dup: 25LM20048

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
1220	50's-60s	sunny		0-5	NW->SE	dry	OVM-580	PID

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)]
4.95 x .163 = 0.80 x 3 = 2.42 gals

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
	11.2					

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
		6.11			

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)
1223	6.25'	Static water level		1.30	Turn	Horiba			bubble
1304	6.05	Static	water level,	pump	started				
1311	6.52	~100		0.08	9.2	9.54	0.706	6.73	-84	9.2
1316	6.68	~100		0.13	8.4	9.52	0.697	6.57	-78	—
1321	6.77			0.22	8.6	9.63	0.680	6.56	-73	
1326	6.96	~100		0.14	8.7	9.70	0.667	6.55	-73	5.8
1331	7.05		~0.75 gals	0.15	8.6	9.72	0.666	6.58	-81	3.4
1336	7.22	~100		0.12	8.6	9.71	0.671	6.61	-91	2.8
1342	7.38		~1.0 gals	0.12	8.5	9.77	0.675	6.66	-100	1.9
1346	7.96'			0.11	8.5	9.82	0.677	6.69	-105	1.9
1351	7.61'		~1.25 gals	0.11	8.4	9.96	0.683	6.72	-111	1.7
1356	7.74'	~90		0.15	8.4	10.19	0.687	6.76	-116	1.6
1401	7.85	~100	~1.5 gals	0.15	8.3	10.07	0.690	6.78	-118	1.2
1406	8.01	~100		0.15	8.3	9.91	0.695	6.80	-119	1.4
1411	8.15'		~1.5 gals	0.15	8.2	9.70	0.700	6.81	-118	0.85
1416	8.29		~1.95 gals	0.17	8.2	9.87	0.700	6.83	-117	1.2
1421	8.40		~2 gals	0.11	8.1	9.97	0.702	6.84	-115	0.90
			2.25 gals	purged.					
		Sulfide = 0.04 mg/L							
		Sample ID 25LM20042				Sample Time: 1435			
			25LM20042MS					1435	
			25LM20042MSD					1435	
			25LM20048 (Dup)					1445	

1320 switch Horiba meters

adjusted flow rate

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-3

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4/29/09
INSPECTORS: SD
PUMP #: 1.75" Dia Pump
SAMPLE ID #: 25LM20046

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
							OVM-580	PID

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
	9.8					

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
		6.19			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1035	6.28									LA MOTT
1100		Start Pumping								
1115	6.59	100		0.64	7.9	10.54	0.661	6.92	22	4.1
1120	6.71	100		0.63	7.8	10.28	0.651	6.96	-3	
1125	6.81			0.23	7.8	9.98	0.659	6.99	-45	
1130	6.92	~100	~.7 gal	0.51	7.9	9.93	0.650	7.00	-66	2.1
1135	7.06			0.57	7.9	9.75	0.638	7.00	-80	
1140	7.11			0.53	7.9	9.75	0.636	7.00	-87	1.6
1145	7.16	100	~1 gal	0.51	7.9	9.83	0.633	7.00	-90	
1150	7.24			0.38	7.9	9.88	0.634	7.01	-93	0.85
1155	7.30			0.36	7.9	10.02	0.632	7.01	-94	
1200	7.36	~85		0.28	8.0	10.03	0.634	7.02	-96	0.50
1205	7.41			0.21	8.0	10.16	0.632	7.02	-99	
1210	7.49			0.18	8.0	10.26	0.628	7.02	-100	
1215	7.56	~100		0.17	8.0	10.10	0.630	7.02	-100	0.60
1220	7.63			0.16	7.9	10.34	0.625	7.03	-101	
1225	7.70		2.9 gal	0.19	7.9	10.15	0.627	7.03	-102	0.35
1230		Collect Sample				Field Sulfide =				
		Sulfide = 0.42 mg/L								
		Sample ID = 25LM20046								
		Sample Time = 1230								

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-8

PROJECT: SEAD-25\LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4/20/09 / 4/22/09
INSPECTORS: BSO / SD
PUMP #: peristaltic pump
SAMPLE ID #: 25LM 20047

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
4/20/09	1225	80's	sunny/cloudy up		5-15	NE-SW	dry	OVM-580	PID
4/22/09	1010	60's	sunny		2-5	E-W	dry		

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
	5.4					

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
		3.74			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
4/20/09 1231	3.59								in well pump
→ well ran dry before flow cell could be filled with 1.75' Dia									
→ will return tomorrow to pump well completely dry for samples.									
4/22/09 1012	4.00'	Static water level							
→ insufficient well volume to fill flow cell and collect									
measurements. YSI DO meter will be inserted into									
1030 well and probe sensor few inches off bottom of well.									
1038 pump started.				DO	Temp				
1033	4.23		240 ml	1.80	10.2				
1036	4.32		440 ml	1.53	10.1				
1039	4.39		680 ml	1.47	10.0				
1042	4.47		1000 ml	—	—	exposed to air			
1043			1040 ml						
1045			1340 ml						
1046			1460 ml						
1048			1580 ml	increase flow rate					
1050			1880 ml						
1051	4.95'		2180 ml	pieces of dead ants coming up in water					
1053			2480 ml						
1054	5.2'		2780 ml	water level can't measure any further					

1055 well ran dry ~2900 ml removed from well
~0.9 gals

Sample ID: 25LM 20047

Ant parts in sample from inside well.
Sulfide = 0.01 mg/L Hach Test

* Collected sample at 1400. Used soda straw method for VOC, RSK. Used peristaltic pump for other parameters. Both manifolds, bubbles in VOA vials.

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-9

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4/25/09 / 4/29/09
INSPECTORS: BBO / SD
PUMP #: Peristaltic pump
SAMPLE ID #: 25LM 20049

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
4/29/09	1118	50-60	sunny		5-10	NW->SE	dry	OVM-580	PID

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
	5.35					

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
		4.19			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
4/28/09	1306	4.29'	before pump in well	1.25 liter						
	1310	4.39'	after pump in well, water on top of Pump							
		4.95	→ insufficient water to sample, will try tomorrow with Peristaltic pump.							
4/29/09	1120	4.41'	Static water level, insufficient water value to connect flow cell and obtain measurements. YSI DO sensor will be inserted into well and collect DO readings							
	1123	4.38	pump started		DO YSI	Temp				
	~~1120~~									
	1125	4.7		~420 ml	0.32	9.1				
	1127	4.79		~700 ml	0.45	9.1				
	1129	4.88		~920 ml	0.56	9.0				
	1131	5.01	1140 ml	~1140 ml	0.61	8.9				
	1133	—		~1440 ml	0.79	8.8	water level can no longer measure			
	1134			~~1640 ml~~	—	—	probe exposed to air			
	1135	well ran dry ~1640 ml of water removed.								
	→ will return later in day to check re-charge.									
	1440	Tue - well recharged to			DTW 4.5'		will sample well			90
		Sulfide = 0.12 mg/L								

Collected sample at 1520. Used soda straw method for VOCs & RSK.

Used peristaltic pump for other samples. Sample ID: 25LM 20049

at time of sampling

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-10

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4/29/09
INSPECTORS: DBO
PUMP #:
SAMPLE ID #: 25LM20050

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
1200	50's	Sunny		0-5	NW-SE	dry	OVM-580	PID

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
	6.25					

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
		5.91			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1153	6.03'	Static water							
		→ ~0.25' of water in well, insufficient volume to							
		connect flow cell and obtain measurements.							
		will insert YSI 55 (DO probe) into well.							
		will use peristaltic pump w/ new piece of silicon tube							
1205	pump started								
		DO probe exposed after 180 ml removed							
1206	pump stopped, removed ~200 ml of water,								
	→ will return later in the day to check well re-charge.								
1310	SD	check static water level for recharge, DTW = 6.05', will							
		wait till tomorrow to attempt sample collection via straw							
		method.							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-10
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5		DATE: 4/30/09
LOCATION: ROMULUS, NY		INSPECTORS: DBO/SD
		PUMP #: Straw method
		SAMPLE ID #: 25LM20050

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
853	50s	Sunny		0-5	E-W	dry	OVM-580	PID

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
	6.25'					

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
		below 6.05'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
853	Water level is below 6.05', Water level could not be detected any water. Tip of Probe was wet. → Will attempt Straw method to fill VOC vials								
556	Attempted to fill VOA vial via Straw method, each attempt did not yield any water. → will try connecting Peristaltic pump like was done at MW25-13								
907	Set Connected up Peristaltic pump w/ yesterday's Silicon tube section. 1st attempt yield ~10 ml of brownish turbed water. 2nd attempt yielded no water, 3rd attempt yielded no water.								
	=> Unable to extract enough well water to fill any sample bottles, due to low water levels.								

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW 25-13

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4/29/09
INSPECTORS: BBO
PUMP #:
SAMPLE ID #: 25 LM 20051

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
915	50s	sunny		2-8	NE-250	dry	OVM-580	PID

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
	5.45					

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
		5.04			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
910	5.06	Static water level. Insufficient well volume to use 1.75" Dia pump or Horbia Flow Cell. Will pump well dry w/ peristaltic pump and new section of Viton tubing at pump head.							
915	started pump								
918	Stopped pump, no suction is being created by viton tube section. Called Cole Palmer to confirm tubing size w/ pump model. Learned have wrong thin walled (size 17) tubing, pump can only handle #15, 24, 35, & 36, -> unable to use current Viton tubing.								
943	replace section of viton tubing w/ flexible silicon (new piece) restarted pump, will pump well dry								
944	pump stopped, purged ~300 ml of water from well. -> will return later in day to check re-charge.								
1380	SD	checked Static water level, 5.25', will wait till tomorrow to attempt sample collection of VOAs via Straw method.							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-13

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: MW25-13 4/30/09
INSPECTORS: DDO/
PUMP #: Straw Method
SAMPLE ID #: MW25LM20051

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
825	50's	sunny		0-5	dry	SW->NE	OVM-580	PID

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
	5.45'					

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
		below 5.2'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
818	Water level is below 5.2', water level meter can't detect water								
	within well. Top of probe was visible wet.								
824 →	will attempt to fill VOAs for VOC analysis via Straw method								
&									
827	Attempted several times to collect well water via Straw method.								
	Each attempt collect 2-3ml of water that resisted								
	existing the sample tubing.								
830	Connected up Peristaltic pump w/ yesterdays silicon piece								
	for MW25-13, attempted to fill tubing and. Started pump								
	but only sporadic amounts of water came up to the								
	pump head. Stopped pump prior to well water reaching								
	silicon tubing. Removed tubing w/ pump head clamped down								
	to maintain vacuum seal.								
→	tubing had ~10 ml of brown silted water. Emptied contents								
	into 1 VOA Vial. Repeated peristaltic process, no additional								
	water was recovered.								
835	Called J. Adams to inform him of failed attempts.								
=>	Unable to sample MW25-13 due to low water levels.								

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW 25-15

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4-28-09
INSPECTORS: SD
PUMP #: 1.75" Dia Pump
SAMPLE ID #: 25LM20052

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
							OVM-580	PID

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.167	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
	7.2					

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
		5.45			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
9:50	5.27	Pre pump water level, pump & DO meter installed							Horiba
9:52		Start Pump		YSI HORIB					
9:58	5.27 (top of pump)	100		4.73	12.35	0.296	6.70	118	96.4
10:03		100		NA	5.15	12.29	0.286	6.93	114	108
10:08		100		NA	4.04	14.37	0.283	7.00	111	
10:15		well dry. pumping = 25 ml/min pumped = 1/2 gallon							
1315		checked GW level, Depth to H2O 5.70.							
		→ will wait till tomorrow to attempt sampling.							

Length 6.1

NOTE: Water level below top of pump. YSI Probe exposed. No readings

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-15

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4-29-09
INSPECTORS: SP
PUMP #: 1.75" Disp Pump
SAMPLE ID #: 25 LM 20052

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
							OVM-580	PID

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	7.2					

	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		5.45			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
845			Let well recover over night				DTW 5.65 at 8:40		
↓			Collect sample 8:45			Sulfide field test = 0.0 mg/L			
						Turbidity 4.4			
			Sample ID = 25LM20052						
			Sample Time = 845						

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW 25-17

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4/28/09
INSPECTORS: BB/SD
PUMP #:
SAMPLE ID #: 25LM20043

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
1340	70-80	partly overcast increasing clouds		5-20	NE-SW	dry	OVM-580	PID

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)]
6.82 x .163 = 0.99 x 3 = 2.99 gals

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
	11.2					

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
		5.08			1320

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)	DO DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1328	5.91	~105		8.05	7.5	10.89	0.379	7.46	124	31
1334	6.06			7.97	7.4	10.55	0.376	7.38	135	
1339	6.09			7.93	7.4	10.23	0.377	7.33	147	9.5
1344	6.15			7.90	7.3	10.14	0.377	7.30	154	
1349	6.15	~100	~1.0 gals	7.88	7.3	9.93	0.378	7.29	160	6.1
1354	6.17			7.88	7.3	10.04	0.377	7.29	165	
1400	6.21			7.88	7.3	9.95	0.378	7.29	168	3.2
1405	6.24			7.85	7.3	10.10	0.377	7.29	171	
1410	6.24	~100	~1.6 gal	7.80	7.3	10.02	0.377	7.29	174	2.7
1415	6.24			7.74	7.2	9.95	0.378	7.30	177	
1422	6.26	~100	~2.0 gals	7.62	7.2	9.63	0.379	7.30	182	2.2
1430	6.29			7.57	7.2	9.80	0.378	7.31	186	1.7
1435	6.31			7.51	7.2	9.32	0.379	7.31	189	1.3
1441	6.31			7.48	7.2	9.29	0.378	7.31	190	
1447	6.33		~2.5 gal	7.45	7.2	9.14	0.379	7.31	192	1.2
1452		collect sample				Sulfide field test = 0.0 mg/L				
		Sample ID 25LM20043								
		Sample Time 1452								

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-18
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5		DATE: 4/28/09
LOCATION: ROMULUS, NY		INSPECTORS: SD
		PUMP #:
		SAMPLE ID #: 25LM20044

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	DETECTOR
OVM-580	PID

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
	11.2					

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
		6.00			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
	5.98	prepump								
10:56		start pump		YSI	°C					LaMotte
11:10	6.22	60		4.05	7.4	17.55	0.399	7.28	102	
11:20	6.36	100		4.33	7.3	15.13	0.405	7.28	123	80
11:25	6.50	100		4.52	7.3	15.25	0.387	7.27	129	
1130	6.56	100		4.59	7.3	15.13	0.387	7.28	133	39
1135	6.64	100	= 1/2 gal	4.70	7.3	15.26	0.387	7.29	135	
1140	6.77	100		4.65	7.3	14.89	0.388	7.30	137	21
1145	6.88	100		4.59	7.2	15.05	0.387	7.30	141	
1150	6.96	100	= 1 gal	4.56	7.2	15.42	0.382	7.30	143	12
1155	7.08	100		4.52	7.1	15.20	0.385	7.29	146	
1200	7.20	100		4.48	7.1	14.96	0.386	7.30	148	
1205	7.29	100	= 1.5 gal	4.43	7.1	15.48	0.382	7.29	150	
1210		collect sample								
		100		4.43	7.1	15.20	0.385	7.30	150	11
Sulfide = 0.00 mg/L										
		Sample ID: 25LM20044								
		Sample Time 1210								

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW 25-19

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 4/28/09
INSPECTORS: DBO
PUMP #:
SAMPLE ID #: 25LM20045

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
933	~80	sunny		0-5	SW	dry	OVM-580	PID

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)]
12 - 5.63 = 6.37 x .163 = 1.04 x 3 = 3.1 gals

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
	12.0					

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
		5.50			957

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 (mS/cm)	pH	ORP (mV)	TURBIDITY (NTU)
933	5.63	no pump in well		to YSI 85		ambient				Low flow
959	5.85	~110		3.45	7.5	10.77	0.380	6.67	151	
1008	5.82	~100		3.40	7.4	10.61	0.381	6.59	153	
1017	5.80			3.63	7.3	10.65	0.385	6.61	153	
1020	5.81			3.73	7.2		adjusted flow rate			
1029	5.81	~100		3.68	7.2	10.18	0.378	6.74	152	4.3
1037	5.81	~100		3.80	7.1	10.04	0.378	6.83	149	3.1
1042	5.88		~1.5 gals	3.81	7.1	9.96	0.383	6.89	146	
1047	5.86	~100		3.98	7.1	9.63	0.377	6.96	144	2.4
1052	5.85		~1.8 gals	3.97	7.1	9.67	0.376	7.00	142	2.5
1057	5.85		~2 gals	3.86	7.1	9.70	0.376	7.03	140	1.8
1102	5.85	~105	~2.2 gals	3.70	7.1	9.72	0.388	7.07	139	1.8
1107	5.85			3.82	7.1	9.85	0.381	7.10	137	1.6
1112	5.85		~2.5 gals	3.80	7.1	9.95	0.380	7.12	135	1.5
1117	5.85			3.78	7.1	9.98	0.377	7.14	134	1.3
1122	5.85		~3 gals	3.75	7.1	10.26	0.379	7.15	134	1.3
		Sample ID: 25LM20045								
		Sample Time: 1132								
		Sulfide: 0.02 mg/L								

ROUND 6

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-2

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/11/10
INSPECTORS: BBO / GL
PUMP #:
SAMPLE ID #: 25LM20053 + MS MSD @ 25LM20054 = DUP

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
1215	25F	Sunny		0	-	6" snow	OVM-580	PID

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)]
(11.2 - 4.95)(0.163) x 3 = 3.06 gal

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
	11.20					

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
		4.95			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1215	4.95	START PUMP		ysi →		Horiba →		→	LaMotte
switch out pump controller for 2nd controller b/c not functioning. Resume pumping at 1229.									
1230	5.87						8.73	25	
Readings on HORIBA 0717 Seem strange ↑. Brendan returning to office to get other Horiba cell									
1300	Resume	pumping		well with		Horiba # 10560			
1302	6.03	~120		1.16	6.5	0.684	7.48	83	
1307				1.01	6.4	0.645	7.34	15	20.0
1312	6.21	~105	1/3 gal	0.86	6.3	6.32 0.633	7.31	-29	
1317	6.31	~90	3/4 gal	0.79	6.5	6.26 0.626	7.30	-48	14.6
1323	6.47			0.70	6.3	~~7.29~~ 6.13 0.622	~~7.29~~ 6.12	-68	
1328	6.55	~90	7/8 gal	0.54	6.3	~~7.31~~ 6.03 0.617	~~6.03~~ 7.31	-99	6.11
1333	6.71			0.45	6.2	5.94 0.589	7.31	-114	
1338	6.75	~90	1.1 gal	0.44	6.0	5.95 0.571	7.31	-119	
1344	6.90		1.25	0.42	6.1	5.90 0.544	7.30	-127	2.07
1350	7.14		~1.6	0.40	6.1	5.83 0.537	7.28	-134	
1401	7.4	~90		0.42	6.1	5.82 0.550	7.27	-142	
1406	7.58		2.1	0.41	6.2	5.86 0.564	7.26	-147	

.02

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-2

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: ~~1/4~~ 1/11/10
INSPECTORS: BBO/GL
PUMP #:
SAMPLE ID #: 25LM20053 MS MSD + DUP 25LM20054

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
1408	25F	overcast		5mph		6" snow cover	OVM-580	PID

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

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

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1410	7.68		2.2	0.41 | 6.3	~~5.8~~ 6.3	0.573	7.25	-151	1.06
During sample collection to ~~eggs~~ poop, BBO smells petrol hint from well, Gianfe smelled an organic odor similar									
		SAMPLE TIME:		~~1410~~ 1415 for 25LM20053, MS/MSD					
		Dup sample Time		1420 for 25LM20054					
		Sulfide = 0.16 mg/L							
1508	~~9.64~~	9.64		0.41 | 7.2	5.9	0.596	7.12	-165	2.59

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-3
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6		DATE: 1/12/10
LOCATION: ROMULUS, NY		INSPECTORS: BBO/GL
		PUMP #:
		SAMPLE ID #: 25LM200[illegible]0

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
1110	21F	overcast +		~10mph	NW	10" snow	OVM-580	PID
		snow				cover		

↓ note change from sample matrix

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)]

(9.79 - 5.21)(0.163)(3) = 2.24 gal.

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
	9.79'					

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
		5.21'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1110	4.92	START PUMP.		DO OC					
1116		STOP PUMP. DO Readings over 4.25 mg/L. # 12083							
		Put into well 2nd Ysi to compare readings.							
1132		Both Ysi have similar DO readings							
		#12083 = 3.44 mg/L #06128 = 3.88 mg/L							
1130		Call to Jeff Adams to consult about							
		Ysi probes.							
1139		Restart pump. DO level begins rising. Believe							
		there's a link in the airline b/c DO level rising.							
1140		stop pump. BBO remove pump from well to							
		check air line.							
1148		Restart pump controller after replacing							
		bladder pump.							
1152	5.42			4.38	4.5	Flow cell	not full yet.		
1153	6.00	~120		4.30	4.5	3.88 0.786	6.61	94	21
1202	6.08	~110	1/3 gal	2.82	4.8	4.4 0.794	6.57	7	
1208	6.01		1/2 gal	2.62	4.9	3.53 0.786	6.55	-19	12
1213	6.03			2.13	5.0	3.52 0.779	6.52	-37	
1220	6.02		~1/2 gal	2.04	5.0	3.51 0.776	6.51	-46	7.7
1226	6.11	~100		1.88	5.0	3.94 0.771	6.50	-54	
1231	6.07			1.58	4.9	3.83 0.756	6.51	-56	

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: 25-3

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/12/10
INSPECTORS: BBO/GL
PUMP #:
SAMPLE ID #: 25LM20060 gd → note change from sample matrix.

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
1234	21	flurries overcast		15mph	NW	10" snow cover

MONITORING INSTRUMENT	MONITORING DETECTOR
OVM-580	PID

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
	9.79'					

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
		5.21'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
(continued from previous page)									
1237	7.10	~100	0.8 gal	1.81 / 5.0	3.24	0.744	6.50	-60	5.3
1241	6.14	~100	1 gal	1.81 / 4.9	3.95	0.738	6.50	-61	
1246	6.15	~100	1.4 gal	1.71 / 5.0	3.85	0.727	6.50	-63	4.1
1251	6.15	~100		1.78 / 4.9	3.80	0.741	6.51	-63	3.0
		Collect sample at 1300							
		Sample ID: 25LM20058							
		Sulfur smell to water.							
		Sulfide (S^{2-}) = 0.04 mg/L (using HACH Methylene Blue Method)							
1315	8.25			2.07 / 4.9	3.49	0.700	6.52	-59	5.7
			1.5 gal						

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-8

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/13/10
INSPECTORS: BBO/GL
PUMP #:
SAMPLE ID #: 25LM20059

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
1220	23 F	partly cloudy		~10 mph	NW	16" snow cover	OVM-580	PID

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)]
(5.41 - 2.95)(0.163)(3) = 1.2 gal

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
	5.41'					

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
		2.95'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
Spoke w/ J. Adams. Will use peristaltic pump 1st. Will attempt to line out parameters then use bailer for VOCs & MEE. then return to peristaltic for remaining samples.										
1230	2.90	START PUMP								
~~1238~~	~~3.82~~	~125	~~3660~~ ~~4115~~	3.60	9.82	5.52	0.344	7.33	222	
1242	3.98	~115		3.68	4.7	5.38	0.344	7.35	223	3.4
1249	4.11			3.78	9.6	5.07	0.343	7.34	224	2.8
1253	"			3.24	4.6	5.08	0.342	7.34	224	
1257	4.18			3.05	4.6	5.17	0.343	7.35	224	2.4
1301	4.25			2.81	4.6	5.08	0.343	7.34	226	2.5
1305	4.28	~100	0.6 gal	2.71	4.7	4.99	0.343	7.35	228	2.5
1309	4.38	~100	3/4 gal	2.67	4.7	5.02	0.342	7.36	230	2.2
1320 SAMPLE well bailer for MEE/VOCs peristaltic for nitrate/nitrite, Na/Fe, SO4/Cl						ID: 25LM20059				
~~1335~~	~~3.21~~	S2- :	0.03 mg/L	~~5.25~~	2	~~5.25~~	~~0.348~~	~~7.38~~	~~238~~	~~nitrate~~ DBO
1340	4.02		~1 gal →	5.09	4.3	5.40	0.346	7.39	227	6.5

↑ slowly & steadily dropping

Note: slight sulfur smell in well.

S-25 GW SAMPLING RECORD

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-9

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/12/2010
INSPECTORS: BBO/GL
PUMP #:
SAMPLE ID #: 25LM20058 → note change from sample matrix

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
0930	20F	10mph overcast flurries		10mph	NW	10" snow cover	OVM-580	PID

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
	5.38					

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
		2.58			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
0932	2.21	Start pumping		YSI	HORIBA				Lamotte
	Switch out pump controller for #14972.								
0938	2.35								
	Appears that DO probe is exposed to air b/c YSI reads 3.5 mg/L								
240									
0942	2.40								
0949	2.47			DO / °C					
0950	3.21	~120		5.27 / 3.7	2.86	0.735	8.32	219	
	Switched Horiba for 2nd Horiba # 10560 due to high pH reading								
0955	3.68			5.81 / 3.8	3.34	0.474	7.43	200	6.7
	BBO called Jeff Adams. Will remove bladder pump. Clamp off flow cell. Insert peristaltic pump. Then pump dry well. Will attempt to collect readings w/ YSI & Horiba while using peristaltic pump.								
1003	↑ water level below top of bladder pump.			12.77 / 4.0	3.42	0.491	6.96	-60	

S-25 GW SAMPLING RECORD

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-9
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6		DATE: 1/12/10
LOCATION: ROMULUS, NY		INSPECTORS: BBO/GL
		PUMP #:
		SAMPLE ID #: 25LM2005B → note change from sample matrix

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
							OVM-580	PID

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

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

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1017	4.21	~120		0.75	~~5.29~~ 4.5	3.29	0.487	6.91	-101	
→ Now using peristaltic pump. Start 1017.										
1022	4.51	~105	~1/2 gal ↳ not including	0.74	4.7	3.78	0.490	6.85	-132	12
1028	4.71	~80		0.70	4.9	3.95	0.472	6.91	-139	
1033	4.87		~3/4 gal	0.67	5.0	4.25	0.453	~~4.25~~ 6.91	-135	
1038	5.0		~1/0 gal	0.66	5.0	4.36	0.444	6.90	-130	5.6
1043				0.73	5.1	3.97	0.450	6.81	-122	
↳ during these last readings we saw air bubbles in the flow cell. Readings may be invalid.										
1044	Well is completely purged. Removing equipment from well.									
1045	5.06		~1.1 gal							
1049	4.80		NO samples collected. Will Return later to check recharge.							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-9

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/12/010
INSPECTORS:
PUMP #:
SAMPLE ID #: 25LM20058 → note change from sample matrix

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
1300	19F	snow showers		5-10	N-75	snow over	OVM-580	PID

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
	5.38'					

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
		2.61'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1349	2.61	Pump - Peristaltic pump							
1355	4.08	~130			3.86	0.438	6.63	-82	5.0
1400	4.41	~120			3.42	0.434	6.68	-76	5.3
1405	4.45	~120			3.44	0.431	6.71	-73	3.7
1409	4.56				3.62	0.427	6.73	-72	2.8
			~0.5 gals purged						
VOCs MEE	Sample Collected from Bailer lowered into well								
		Sample Time 1420							
		Sample ID 25LM20058							
Connected up Peristaltic pump in order to collect									
then remaining NO2/NO3, SO4/Cl, Na/Fe, & Sulfide samples									
			Sulfide =	0.01 mg/L					

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-10

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/12/10
INSPECTORS: BBO/GL
PUMP #:
SAMPLE ID #: 25LM20061

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
1630	21F	overcast near dusk.		10mph	NW	10" snow cover

MONITORING INSTRUMENT	MONITORING DETECTOR
OVM-580	PID

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)]
(6.16 - 4.05)(0.163)(3) = 1.04 gal

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
	6.16'					

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
		4.50'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1631		START PUMP. PERISTALTIC		YSI (°C)	HORIBA →				Lamotte
1636									
1636	4.90	~140		5.2	2.06	0.362	6.88	216	
1640	5.0	~110		5.1	2.57	0.362	6.91	220	5.7
1644	5.25		~1/3 gal	5.3	2.62	0.360	6.92	221	3.3
1648	5.35	~110		5.4	2.53	0.360	6.91	221	1.8
1652	5.50	~110	~2/3 gal	5.4	2.53	0.358	6.91	224	1.7
1656	5.75	~140		5.6	2.74	0.359	6.89	226	1.0
1700	5.91	~140		5.8	2.72	0.364	6.89	227	2.2
1704	6.0		0.9 gal	6.0	2.67	0.371	6.87	232	4.9
	Well is now dry. Bubbles & dirt coming up in pump line. Leave well & demob & return to well.								
1/13/2010 Returned to well.									
1115	4.45								
1118	4.43	Instruments now in well. START PERISTALTIC PUMP							
1125	4.90			5.5	5.86	0.409	7.16	231	4.9
1129	4.98	~100		5.6	5.14	0.400	7.18	227	3.7
1133	5.12			5.6	5.13	0.396	7.19	230	3.3
1135	STOP PUMP. Prepare for sample collection with bailer.								
			~0.15 gals						

S-25 GW SAMPLING RECORD

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-10

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/13/010
INSPECTORS: TBO/SL
PUMP #:
SAMPLE ID #: 25LM20061

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
							OVM-580	PID

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

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

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1154	5.5	Pump restarted							
			Sulfide =	0.09 mg/L					
1203	5.60				4.97	0.393	7.19	237	4.5
		SAMPLE TIME 1143							
		SAMPLE ID 25LM20061							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-13

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/12/10
INSPECTORS: BBO / GL
PUMP #:
SAMPLE ID #: 25LM20062

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
1555	21F	partly cloudy		~10-15	N	10" snow cover	OVM-580	PID

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.167	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
	5.40'					

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
		5.05'			

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)
1558	5.05	pump started							
1603	Pumped for ~5 min. Purged ~200 mL do water from well. Never filled Horiba cell b/c not enough water to fill flow cell. ∴ No readings.								
1605	Demob. from well								
	Will return to well tomorrow 1/13/10 to check water level.								
1/13/2010									
0930	Returned to well. BBO measured water level. NO water in well. Will return later to recheck.								
1530	Returned to well. NO water in well. Will check water level tomorrow.								
1/14/10									
0818	NO water in well. Only drops on tip of water level meter.								
1149	NO water in well. Only drops on tip of water level meter. No sample collected.								

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-15

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 1/12/10
INSPECTORS: BRO/GL
PUMP #:
SAMPLE ID #: 25MW20063

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
1500	21F	overcast		10mph	NW	snow	OVM-580	PID
		flurries				10" cover		

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	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)]
(6.98 - 4.63)(0.163)(3) = 1.14 gal.

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
	6.98'					

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
		4.63'			

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

(TOR) 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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
Discussion w/ Jeff Adams. Purge this well w/ peristaltic pump while measuring parameters w/ Horiba. Purge well completely & then return tomorrow to check status of recharge.									
1504	4.60	START PUMP							
1505	PAUSE pump to clear ice from line								
1506	5.60			ysi °C=5.9	5.33	0.357	6.98	46	
1509		~110		5.8	5.16	0.386	6.96	55	200
1512	5.75	110	~1/2 gal	5.7	4.66	0.395	6.96	74	95
1515	5.83			5.8	4.68	0.395	6.96	85	65
1518	6.01			6.0	5.33	0.390	6.89	99	25
1522	6.20	~100		6.1	5.52	0.389	6.83	108	
1525	6.36	~100	~3/4 gal	6.2	5.58	0.387	6.79	116	8.9
1529	6.58	~180		6.5	5.72	0.389	6.73	125	5.8
1533	6.79		~1 gal	6.5	5.77	0.396	6.71	132	
1536	6.90			6.6	5.75	0.396	6.71	133	8.2
		Well is now dry. Will return on 1/13/2010.							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW25-15

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 4/13/10
INSPECTORS: BB/GL
PUMP #:
SAMPLE ID #: 25LM20063

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
0940	22F	calm, overcast		5mph	NW	10" snow cover	OVM-580	PID

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)]
[6.98) - 4.26] (0.163 X 3) = 1.33

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
	6.98'					

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
		4.26'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
0945	4.23	START PERISTALTIC PUMP.							
		switch out flow cell for #10560 b/c #07171 reading pH = 8.54. Paused flow							
0952		Restart pump.							
				Ysi	°C	HORIBA			
0954	5.35				6.2	6.28 0.412	7.85	204	5.3
0959	5.50	~80			6.0	5.73 0.402	7.56	205	4.7
1003	5.57	~80			6.0	5.58 0.396	7.46	207	4.7
1007	5.65	~80			6.0	5.27 0.390	7.38	210	
1011	5.68				6.0	5.14 0.387	7.34	212	2.60
1015	5.67	~70			6.0	4.94 0.385	7.28	215	
1020	5.70	~100	1/2 gal		6.1	4.61 0.383	7.24	214	2.2
1025	5.79		2/3 gal		6.1	4.99 0.380	7.23	213	1.5
		Collect Sample Time: 1035 Samp ID: 25LM20063 Sulfide = 0.17 mg/L				• MEE(3) + VOCs(3) collected w/ bailer • nitrate/nitrite (1), Na/Fe (1) sulfate/Cl (1) collected w/ peristaltic pump			
		Total vol purged ≅ 3/4 gal. well dry once all sample bottles full.							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	CONSULTANT: PARSONS ES	WELL #: MW25-17

PROJECT: ~~QUARTERLY SAMPLING~~ -SEAD 25 LTM RG
LOCATION: ROMULUS, NY

DATE: 1/14/10
INSPECTORS: GL/BBO
PUMP #:
SAMPLE ID #: 25LM20055

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
0825	22 F	sunny		~10mph	SW	10" snow cover

MONITORING

INSTRUMENT	DETECTOR
OVM-580	PID

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	0.61	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]
(11.04 - 5.32)(0.163)(3) = 2.80 gal

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
	11.04'					

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
		5.32'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
837	4.99	pump in the well		↓	Horiba	→	→	→	Lamotte
		pump started.		Ysi oc					
0892	5.76	~120		8.12 7.8	6.76	0.460	7.86	212	45
0847	5.97	~120		8.09 7.8	6.52	0.430	7.57	214	32
0852	5.99	~115	~0.2 gals	8.18 7.7	6.22	0.419	7.43	215	16
0857	6.04	115		7.76 7.8	6.43	0.417	7.37	215	13
0902	6.05	115	~1/3 gal	7.52 7.9	6.45	0.416	7.34	215	9.4
0907	6.07			7.36 7.9	6.54	0.417	7.32	214	7.3
0912	6.09	115		7.17 8.0	6.75	0.418	7.29	214	
0917	6.15		~2/3 gal	7.10 8.0	6.79	6.418	7.29	213	4.2
0922	6.12			6.97 8.0	6.78	0.418	7.30	213	4.1
0927	6.13	115	1 gal	6.96 8.0	6.82	0.417	7.29	212	2.6
0932	6.13			6.96 8.1	6.79	0.417	7.28	211	2.1
0938	6.13		1.25	6.86 8.1	6.99	0.418	7.29	211	2.0
0943	6.11	~120	1.5 gal	6.79 8.1	6.95	0.418	7.29	211	1.4
0957		Sample Collected = Sample ID 25LM20055 VOC(3) HEE(3)							
		Sulfide = 0.00 mg/L (checked twice) NO_2/NO_3 (1) Na/Fe(1)							
							SO_4/Cl (1)		
1003	6.28		1.75 gal	6.46 8.1	7.45	0.421	7.28	212	

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	CONSULTANT: PARSONS ES	WELL #: MW25-18

PROJECT: ~~QUARTERLY SAMPLING~~ -SEAD 25 LTM Round 6
LOCATION: ROMULUS, NY

DATE: 1/14/10
INSPECTORS: GL/BBO
PUMP #:
SAMPLE ID #: 25LM20056

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
1015	22F	sunny, calm		10mph	SW	10" snow cover

MONITORING INSTRUMENT	MONITORING DETECTOR
OVM-580	PID

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	0.61	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]
(10.88 - 6.11) X (0.163) (3) = 2.28 gal.

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
	~~10.78~~ 10.78'					

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
		6.11'			

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

(TOR)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	°C TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1030	5.76	START Bladder pump.			Horiba →				Lamotte
1045	~~5.42~~	~100		4.50	8.2	5.51	0.529	7.18	223	
1050	6.28	~110		4.80	8.0	6.52	0.520	7.20	223	34
1055	6.35			5.05	7.8	6.88	0.572	7.22	225	26
1100	6.49	~100	¼ gal	5.30	7.6	6.90	0.530	7.23	225	16
1105	6.59			5.32	7.6	6.96	0.531	7.24	227	13
1110	6.71	~100	~½ gal	5.43	7.5	6.87	0.532	7.25	229	10.06
1115	6.83			5.42	7.6	6.85	0.532	7.25	~~230~~ 230	8.49
1120	6.91	~115	0.6 gal.	5.44	7.6	6.84	0.532	7.25	231	8.76
1126	—			5.37	7.6	6.94	0.533	7.26	234	6.95
1131	7.06		~1 gal	5.23	7.6	6.89	0.534	7.26	232	5.9
1137	7.15			5.00	7.7	7.00	0.535	7.26	233	5.38
1142	7.2		~1.25 gals	4.96	7.7	7.01	0.536	7.26	233	4.79
1146	7.23			4.88	7.8	7.14	0.535	7.26	235	4.26
1152	7.31	~115	1.5 gal	4.78	7.8	7.05	0.538	7.26	236	
1156	7.33			4.70	7.8	7.17	0.537	7.26	236	3.39
1200	7.35		1.75 gal	4.67	7.8	6.99	0.539	7.26	236	4.91
1204	7.41			4.57	7.9	6.99	0.539	7.25	236	3.08
1208	7.41	~115		4.46	7.9	6.99	0.539	7.26	237	
1212	7.42		2.0 gal	4.38	7.9	7.08	0.538	7.26	237	3.91
1216	7.42	~115		4.39	8.0	7.15	0.541	7.25	237	
1220	7.45		~2.25 gals	4.39	8.0	6.85	0.544	7.28	237	2.78

switched Lamotte to bott. died.

Sample time 1230 Samp ID = 25LM20056 S^{2-} = 0.06 mg/L

Form # _____

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	CONSULTANT: PARSONS ES	WELL #:

	SAMPLING ORDER	PRESERVATIVES	BOTTLES COUNT/ VOLUME	BOTTLES TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
1	VOC -CLP(Low Level) or 524.2	4 deg. C HCL	3/ 40 ml	VOA			
	DOC	4 deg. C H_2SO_4	3/ 40 ml	VOA			
2	Nitrate/Nitrogen 352.1	4 deg. C	1 x 500 ml	HDPE			
3	Ferrous Iron	Field Analysis					
4	Sulfide	Field Analysis					
5	Alkalinity/Sulfate/Chlorides	4 deg. C	1 x 1L	HDPE			
6							
7	DOC						
8	Hardness 130.2	4 deg. C HNO3	1 x 500 mL with #4	HDPE			
9	Total Dissolved Solids 160.1	4 deg. C	1 x 1L	HDPE			
10	Chemical Oxygen Demand 410.1	4 deg. C H2SO4	1 x 50 mL with #7	HDPE			

COMMENTS: (QA/QC?)

Post sample collection Geo Parameter

Time	water level	~2.3 gal	DO	Well Temp	Flow Cell Temp	Spec Cond	pH	ORP	Turbidity
1243	7.52		4.54	8.0	7.35	0.549	7.27	227	2.88

IDW INFORMATION:

Form # _____

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	CONSULTANT: PARSONS ES	WELL #: MW25-19

PROJECT: ~~QUARTERLY SAMPLING~~ LTM -SEAD 25
LOCATION: ROMULUS, NY

DATE: 1/13/10
INSPECTORS: BB/GL
PUMP #:
SAMPLE ID #: 25LM20057

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
1355	23F	overcast		~10mph	NW	10" snow cover	OVM-580	PID

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	3	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT	0.010	0.151	0.614	1.389	2.475	5.564

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

(11.78 - 6.31)(0.163)(3) = 2.67

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
	11.78'					

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
		6.31'			

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 (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
USING BLADDER PUMP. YSI OC Horiba →									Lamotte
1412	6.28	start pump.							
1420	DO readings bouncing between 3.9 → 4.15 mg/L. Stop pump. (suspect leak).								
1423	Replace pump. Restart pumping well.								
1441	6.40			3.90	8.8	6.83	0.444	7.10	245	315
1446	6.45	~100		3.80	8.7	7.59	0.439	7.10	246	
1452	6.46			3.74	8.5	7.82	0.443	7.09	250	150
1457	6.51	~100	1/4 gal	3.82	8.4	7.95	0.445	7.09	252	100
1502	6.52	~140		3.89	8.3	7.95	0.446	7.08	253	70
1507	6.60	~190		3.93	8.0	7.98	0.448	7.08	254	35
1512	6.62		~1 gal	4.15	7.9	8.05	0.447	7.08	255	23
1517	6.63			4.14	7.9	8.03	0.446	7.05	256	
1522	6.60		~1.5 gals	4.21	7.9	7.97	0.445	7.08	256	14
1527	6.61		~1.8 gal	4.16	7.9	7.93	0.443	7.08	257	10
1532	6.66			3.96	8.0	7.91	0.445	7.08	258	8.9
1536	6.64	~190	2.25 gals	3.99	8.0	7.92	0.445	7.08	258	7.2
1541	6.67		~2.5 gal	4.01	8.0	7.94	0.445	7.08	259	6.1
1548	Collect sample. Samp ID = 25LM20057									
	VOC(3) HEE(3) NO_2/NO_3 (1) Na/Fe (1) SO_4/Cl (1)									
1551	restart pump.									
1555	6.66			4.03	7.9	7.64	0.444	7.08	262	5.3
Total vol purged = 2.75 gal										

APPENDIX C

GROUNDWATER ELEVATIONS

Appendix C Table C-1
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	Round 1 - April 12, 2006			Round 2 - August 7, 2006			Round 3 - June 4, 2007		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	1.97	5.80	737.20	2.12	5.65	737.35	1.27	6.50	736.50
MW25-2	746.36	11.10	5.85	5.25	741.11	6.30	4.8	741.56	3.28	7.82	738.54
MW25-3	745.76	9.00	3.35	5.65	740.11	3.55	5.45	740.31	0.82	8.18	737.58
MW25-6	744.44	14.40	8.90	5.5	738.94	8.70	5.7	738.74	5.85	8.55	735.89
MW25-8	742.46	5.60	2.80	2.8	739.66	2.40	3.2	739.26	0.60	5.00	737.46
MW25-9	742.36	5.60	2.75	2.85	739.51	1.80	3.8	738.56	0.59	5.01	737.35
MW25-10	743.01	6.80	2.55	4.25	738.76	2.20	4.6	738.41		dry	
MW25-11	740.25	7.20	2.75	4.45	735.80	2.15	5.05	735.20	0.35	6.85	733.40
MW25-13	739.64	5.70	1.80	3.9	735.74	1.15	4.55	735.09	0.65	5.05	734.59
MW25-15	741.00	7.20	3.15	4.05	736.95	2.60	4.6	736.40		dry	
MW25-17	743.94	11.60	7.40	4.2	739.74	7.25	4.35	739.59	4.15	7.45	736.49
MW25-18	744.35	11.00				5.30	5.7	738.65	3.78	7.22	737.13
MW25-19	741.95	12.10				6.35	5.75	736.20	3.07	9.03	732.92

Notes:

1. Groundwater levels were recorded in April 1994, November 1995, December 1995, March 1996, January 2006, April 2006, August 2006, June 2007, February 2008, April 2009, and January 2010.
2. The bedrock wells are not included as part of the LTM program and are not included in this table.

Appendix C Table C-1
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	Round 4 - Feb 26, 2008			August 27, 2008			October 25, 2008		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	1.88	5.89	737.11	0.67	7.10	735.90	0.62	7.15	735.85
MW25-2	746.36	11.10	6.35	4.75	741.61	3.70	7.40	738.96	2.73	8.37	737.99
MW25-3	745.76	9.00	4.41	4.59	741.17	0.49	8.51	737.25	-0.52	9.52	736.24
MW25-6	744.44	14.40	9.86	4.54	739.90	5.07	9.33	735.11	3.82	10.58	733.86
MW25-8	742.46	5.60	3.28	2.32	740.14	0.58	5.02	737.44	0.58	5.02	737.44
MW25-9	742.36	5.60	3.35	2.25	740.11	0.61	4.99	737.37	0.62	4.98	737.38
MW25-10	743.01	6.80	3.06	3.74	739.27	0.72	6.08	736.93	0.69	6.11	736.90
MW25-11	740.25	7.20	3.11	4.09	736.16	0.34	6.86	733.39	0.91	6.29	733.96
MW25-13	739.64	5.70	1.88	3.82	735.82	0.62	5.08	734.56	0.66	5.04	734.60
MW25-15	741.00	7.20	3.77	3.43	737.57	0.29	6.91	734.09	0.29	6.91	734.09
MW25-17	743.94	11.60	8.32	3.28	740.66	3.25	8.35	735.59	1.70	9.90	734.04
MW25-18	744.35	11.00	10.85	0.15	744.20	3.04	7.96	736.39	1.70	9.30	735.05
MW25-19	741.95	12.10	8.10	4.00	737.95	2.01	10.09	731.86	2.03	10.07	731.88

Notes:

1. Groundwater levels were recorded in April 1994, N
2. The bedrock wells are not included as part of the L

Appendix C Table C-1
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	November 4, 2008			Round 5 - April 27, 2009			December 18, 2009		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	1.52	6.25	736.75	1.68	6.09	736.91			
MW25-2	746.36	11.10	4.95	6.15	740.21	4.99	6.11	740.25	5.85	5.25	741.11
MW25-3	745.76	9.00	0.04	8.96	736.80	2.81	6.19	739.57	3.60	5.40	740.36
MW25-6	744.44	14.40	6.79	7.61	736.83	7.97	6.43	738.01			
MW25-8	742.46	5.60	0.57	5.03	737.43	1.86	3.74	738.72			
MW25-9	742.36	5.60	1.09	4.51	737.85	1.41	4.19	738.17	3.10	2.50	739.86
MW25-10	743.01	6.80	0.69	6.11	736.90	0.89	5.91	737.10			
MW25-11	740.25	7.20	1.42	5.78	734.47	1.62	5.58	734.67			
MW25-13	739.64	5.70	0.89	4.81	734.83	0.66	5.04	734.60			
MW25-15	741.00	7.20	0.27	6.93	734.07	1.75	5.45	735.55			
MW25-17	743.94	11.60	5.20	6.40	737.54	6.52	5.08	738.86			
MW25-18	744.35	11.00	4.48	6.52	737.83	5.00	6.00	738.35			
MW25-19	741.95	12.10	3.99	8.11	733.84	6.60	5.50	736.45			

Notes:

1. Groundwater levels were recorded in April 1994, N
2. The bedrock wells are not included as part of the L

Appendix C Table C-1
SEAD-25 Groundwater Elevation Data
SEAD-25 Third Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (ft)	Round 6 - January 11, 2010		
			Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	1.79	5.98	737.02
MW25-2	746.36	11.10	5.73	5.37	740.99
MW25-3	745.76	9.00	3.86	5.14	740.62
MW25-6	744.44	14.40	7.97	6.43	738.01
MW25-8	742.46	5.60	2.75	2.85	739.61
MW25-9	742.36	5.60	3.10	2.50	739.86
MW25-10	743.01	6.80	2.54	4.26	738.75
MW25-11	740.25	7.20	1.59	5.61	734.64
MW25-13	739.64	5.70	0.79	4.91	734.73
MW25-15	741.00	7.20	3.02	4.18	736.82
MW25-17	743.94	11.60	6.58	5.02	738.92
MW25-18	744.35	11.00	5.09	5.91	738.44
MW25-19	741.95	12.10	5.89	6.21	735.74

Notes:

1. Groundwater levels were recorded in April 1994, N
2. The bedrock wells are not included as part of the L

PAGE OF

GROUNDWATER ELEVATION REPORT

PARSONS | CLIENT: | DATE: 2/26/08

PROJECT: SEAD-25 | PROJECT NO.:

LOCATION: | INSPECTOR:

MONITORING EQUIPMENT

INSTRUMENT	DETECTOR	BGD	TIME	REMARKS

WATER LEVEL INDICATOR

INSTRUMENT	CORRECTION FACTOR

COMMENTS:

WELL	TIME	DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, River marked?, Condition of riser, concrete, protective casing, etc.)
MW-25-12D	1409	3.32						
MW25-11	1410	4.09						
MW-25-14D	1412	3.15						Wasp3
MW25-13	1414	3.82						Wasp3
MW-25-15	1423	3.43						
MW25-16D	1432	5.27						
MW25-19	1435	4.00						
25-6	1439	4.54						W. p
25-18	1441	5.15						
25-1	1442	5.89						Wasp
25-10	1443	3.74						
25-9	1445	2.[illegible]						ice?
25-8	1446	2.32						
25-17	1449	2.25						
25-3	1457	4.59						Was-
25-2	1452	4.75						[illegible]

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT

PARSONS	CLIENT:	DATE: ~~8/26/08~~ 8/27/08
PROJECT: SEAD-25 LTM Rnd 5		PROJECT NO:
LOCATION:		INSPECTOR:

MONITORING EQUIPMENT:

INSTRUMENT	DETECTOR	BGD	TIME	REMARKS

WATER LEVEL INDICATOR:

INSTRUMENT	CORRECTION FACTOR
Depth	Water Column

COMMENTS:

	WELL	TIME	DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	~~MEASURED~~ ~~FOW~~	INSTALLED FOW	~~PRODUCT~~ ~~SPEC GRAV~~	WELL STATUS / COMMENTS (Locked? Well cap? Surface Disturbance? Bent riser? Condition of riser, security, protective casing, etc.)
X	MW25-FB	7:33	7.96'			11.03			
near to MW25-FD ?	MW25-6	7:35	9.33'						lifted? Metal Box raised due to PVC fire
X	MW25-17	7:38	8.35'			11.6' deep			
X	MW25-19	7:39	10.09'			12.25' deep			
X	MW25-15	7:41	6.91'			7.2' deep			
X	MW25-13	7:43	5.08'			5.7' deep			
	MW25-11	7:46	6.86'						Yellow Jacket nest in casing
X	MW25-10	7:49	6.08'			6.8' deep			
X	MW25-9	7:53	4.99'			5.6' deep			Yellow Jackets on outside of casing
X	MW25-4	7:56	5.02'			5.6' deep			well PVC ~~Casing~~ 1. Abd
X	MW25-3	7:59	8.51'			9' deep			Yellow Jacket /or Wasp nest inside casing
X	MW25-2	8:01	7.40			11.31			no well cap
	MW25-1	8:04	7.10						Yellow Jacket nest

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT 25 BBO 10/26/08

PARSONS	CLIENT:	DATE: 10/[illegible]/2008
PROJECT: SEAD-25		PROJECT NO:
LOCATION:		INSPECTOR: BBO

MONITORING EQUIPMENT:

INSTRUMENT	DETECTOR	BGD	TIME	REMARKS

WATER LEVEL INDICATOR:

INSTRUMENT	CORRECTION FACTOR

COMMENTS: GW level check

WELL	TIME	DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS (Tank? Well ok? Surface Disturbance? Riser marked? Condition of riser, concrete, protective casing, etc.)
MW25-11	1656	6.29'						
MW25-13	1658	5.04'						
MW25-15	1700	6.91'						
MW25-19	1704	10.07'						
MW25-6	1706	10.58'						
MW25-18	1709	9.3'						
MW25-1	1711	7.15'						
MW25-17	1713	9.9'						
MW25-8	1715	5.02'						
MW25-10	1717	6.11'						
MW25-9	1719	4.98'						
MW25-3	1721	9.52'						lifted?
MW25-2	1723	8.37'						no well cap

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT

PARSONS | CLIENT: | DATE: 11/4/08

PROJECT: SEAD-25 LTM | PROJECT NO:

LOCATION: | INSPECTOR:

MONITORING EQUIPMENT:

INSTRUMENT	DETECTOR	BGD	TIME	REMARKS

WATER LEVEL INDICATOR:

INSTRUMENT	CORRECTION FACTOR

COMMENTS:

WELL	TIME	DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC. GRAV	WELL STATUS / COMMENTS (Lock? Well #? Surface Disturbance? Riser marked? Condition of riser, concrete, protective casing, etc.)
MW25-11	730	5.78						
MW25-13	732	4.81						
MW25-15	734	6.93						
MW25-19	736	8.11						
MW25-6	738	7.61						
MW25-1	740	6.25						
MW25-18	741	6.52						
MW25-17	743	6.4						
MW25-8	745	5.03						
MW25-10	747	6.11						
MW25-9	749	4.51						
MW25-3	751	8.96						
MW25-2	753	6.15						

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT

PARSONS | CLIENT: | DATE: 4/27/09

PROJECT: SEAD-25 LTM Round 5 | PROJECT NO:

LOCATION: | INSPECTOR:

MONITORING EQUIPMENT:

INSTRUMENT	DETECTOR	BGD	TIME	REMARKS
			0.1'	for Probe tip

WATER LEVEL INDICATOR:

INSTRUMENT	CORRECTION FACTOR

COMMENTS: *2.25" for Probe tip to sensor tip on water level indicator

WELL	TIME	DEPTH TO WATER	DEPTH TO Bottom	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS
~~MW25-12D~~ MW27	8:45	4.06	25					
MW25-11	8:47	5.58'	7.1					wasps present
MW25-13	8:50	5.04	5.35					
MW25-15	8:52	5.45	7.1					
MW25-19	8:55	5.50'	11.9'					wasp present
MW25-6	8:58	6.43'	14.1'					
MW25-7 (17)	9:00	5.08	~11.1					not completely submerged from bottom cause of tubing
25-18	9:02	6.00	11.1					
25-1	9:04	6.09	7.65					wasps
25-10	9:07	5.91	6.25'					
25-9	9:10	4.19	5.25'					nest
25-8	9:12	3.74	5.3'					ants inside well PVC Pipe
25-3	9:16	6.19	9.7'					wasps
25-2	9:18	6.11	11.1					need well cap, wasp
	Re-gage well depths for 3 wells *							
25-1	15:12	6.09	7.52'					no mud on top of probe
25-18	1514	5.98	10.98'					no mud on top
25-2	1516	6.11	10.98					no mud on top
25-3	1617	6.21'	9.58'					no mud on top of probe

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT

PARSONS | CLIENT: | DATE: 1/11/2010

PROJECT: SEAD-25 LTM Round 6
LOCATION: SEDA

PROJECT NO:
INSPECTOR:

MONITORING EQUIPMENT:
INSTRUMENT: | DETECTOR: | BGD from TOR | TIME | REMARKS

WATER LEVEL INDICATOR:
INSTRUMENT: | CORRECTION FACTOR:

COMMENTS: Weather: Temps 16°F, light winds, snow covered ground.

WELL	TIME	Depth to WATER	Depth of well PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)
25-1	0922	5.98	7.45					
25-11	0926	5.61	6.98					
25-13	0928	4.91	5.26					
25-15	0930	4.18	6.98					
25-19	0932	6.21	11.78					
25-6	0936	6.43	14.05					spider webs in casing
25-18	0938	5.91	10.58					
25-17	0940	5.02	11.04					
25-8	0941	2.85	5.21					NO well cap.
25-9	0942	2.50	5.18					
25-10	0944	4.26	6.16					
25-3	0947	5.14	9.59					
25-2	0949	5.37	11.05					

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT

PARSONS | CLIENT: | DATE: 7/2/10

PROJECT: SEAD-25 LTM | PROJECT NO:

LOCATION | INSPECTOR: BJO/JK

MONITORING EQUIPMENT:

INSTRUMENT	DECTECTOR	BGD	TIME	REMARKS

WATER LEVEL INDICATOR:

INSTRUMENT	CORRECTION FACTOR

COMMENTS: Collected limited GW levels to determine if GW Samples is possible in future. BBG #16

WELL	TIME	TOC DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS (Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)
MW25-11	1013	6.44						
MW25-13	1015	5.04						
MW25-2	1017	7.19						no well cap
MW25-9	1018	4.95						
MW25-3	1019	7.94						
MW25-8	1021	5.02						well cap on the ground, casts mcell

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)