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Site Status and Technology Evaluation Summary Report for Groundwater

2003 through 2008

25 Melville Park Road Site

25 Melville Park Road
Melville, New York

NYSDEC ID # 1-52-169

ARCADIS

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Site Status and Technology Evaluation Summary Report for Groundwater

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1. Introduction

On behalf of 25 MPR, LLC (25 MPR), ARCADIS is submitting this Site Status and Technology Evaluation Summary Report for Groundwater for the 25 Melville Park Road Site (New York State Department of Environmental Conservation [NYSDEC] Site ID #1-52-169). The Record of Decision (ROD) for the site was issued on March 29, 2004 by the NYSDEC for Operable Unit No. 1, which refers to the on-site contamination at 25 Melville Park Road.

This report provides a summary of the operation, maintenance, and monitoring (OM&M) results related to implementation of the groundwater remedy for the period of January 2003 through December 2008. The term "groundwater remedy", as referenced herein, pertains to the OM&M associated with the anaerobic in-situ reactive zone (IRZ) for the remediation of the downgradient dissolved phase plume, the source area dissolved phase plume, enhanced non-aqueous phase liquid (NAPL) dissolution, and physical NAPL removal (i.e., NAPL hand bailing). In addition, an engineering evaluation of the groundwater remedy performance with respect to the overall project objectives (ROs) as referenced in the ROD and Draft Final Engineering Report (FER) (ARCADIS, 2006) is provided. Finally, recommendations for continued operation of the groundwater remedy during the year 2009 are provided.

2. Summary of Remedial Action Objectives

The overall objective of the long-term remedial program is to achieve the remedial goals described in the ROD. The specific goals included in the ROD, as they pertain to the groundwater remedy, are provided below. The goals have been numbered (in no specific order) for identification purposes for later sections of this report. The primary goals provided in the ROD are to limit or reduce to the extent practicable:

1. Exposures of persons at or around the Site to chlorinated solvents and petroleum in the underlying groundwater; and,

2. The migration of on-site groundwater contamination to off-site where additional exposures to contaminated groundwater are possible.

Additional long-term remedial objectives for groundwater provided in the ROD include attaining to the extent practicable:

3. Elimination of volatile organic compound (VOC) source areas in groundwater, thereby removing the source of the dissolved groundwater plume; and,

4. Ambient groundwater quality standards to be met at the downgradient property boundary, thereby preventing further impacts to off-site groundwater.

Finally, Section 8.0 of the ROD provides a detailed description of the remedy requirements for groundwater. Specifically, the elements of the selected remedy, as they relate to the remediation of groundwater, are as follows:

5. NAPL bailing at productive wells will continue until NAPL recovery is no longer productive.

6. After a reasonable time period acceptable to the NYSDEC to allow some additional NAPL recovery by hand bailing, source area injections and monitoring will commence.

7. The injection of the carbohydrate solution will continue into the pilot test injection wells to maintain the established IRZ currently treating most of the dissolved plume.

8. A remedial design program will be implemented to provide the details necessary for the construction, operation, maintenance and monitoring of the remedial program.

9. Additional injection and monitoring wells will be constructed, as specified in the final remedy.

10. The dissolved plume treatment and monitoring will be expanded to the new injection and monitoring wells related to that effort.

11. If significant concentrations, as determined by the NYSDEC, of untreated 1,2-dichloroethene (1,2-DCE) or vinyl chloride (VC) are detected beyond the dissolved plume IRZ, either the IRZ will be adjusted to achieve effective treatment or a work plan for aerobic treatment will be developed and implemented before the residuals would have a chance to pass beyond the downgradient property border.

12. If the source area treatment under Alternative 2 is ineffective, the incremental benefit of implementing the source area treatment outlined under either Alternative 3, Alternative 4 or potentially a new technology will be evaluated and implemented.

An evaluation of how the remedy is currently meeting each of the requirements referenced in the ROD is provided in Section 6.0 below.

3. Summary of Remedial Program

Based on the ROs provided in Section 2.0 and the results from previously conducted pilot testing, anaerobic IRZ technology and NAPL hand bailing were selected as the primary remedial actions for the remediation of groundwater. Accordingly, the overall remedial strategy is to generate a clean water front at the downgradient property boundary and to eliminate, to the extent practicable, source strength mass that is contributing to the downgradient dissolved phase plume through the use of these two technologies. As referenced in previous correspondence to the NYSDEC, "sources" are defined as areas containing NAPL and/or significant concentrations of adsorbed phase mass. Therefore, the remediation of plume "fringes" (i.e., areas that contain dissolved phase mass through mass diffusion only) will be achieved through natural attenuation following removal of the source mass.

A summary of the remedial program for groundwater is provided below.

3.1 Anaerobic In-Situ Reactive Zone

As referenced above, anaerobic IRZ technology is currently being implemented to remediate the downgradient dissolved phase plume and adsorbed phase mass, to remediate the source area dissolved phase plume and adsorbed phase mass, and to enhance NAPL dissolution. For discussion purposes herein, the "downgradient plume" is defined as the portion of the dissolved phase plume beginning in the vicinity of injection wells IW-6 and IW-16 and ending at the downgradient property boundary. The "source area" is defined as the portion of the dissolved phase plume and areas containing NAPL beginning in the vicinity of injection well IW-27 and ending in the vicinity of injection wells IW-6 and IW-16. The following injection wells are currently being used to remediate groundwater at the Site:

- Downgradient IRZ
  - Shallow Injection Wells IW-6 and IW-16 and Intermediate Injection Wells IW-11, IW-13, IW-14, and IW-15.
- Source area IRZ
  - Shallow Injection Well IW-24 and Intermediate Injection Well IW-27.

Reagent injections began as part of a pilot study beginning on August 14, 2003. A summary of all reagent injections completed through December 2008 is provided in Appendix A. A

chronology of the major milestones and/or revisions to the reagent injection methodology is provided below:

- August 14, 2003 – Initiate reagent injections into downgradient shallow Injection Wells IW-5, IW-6, and IW-16 and intermediate Injection Wells IW-10, IW-11, IW-13, IW-14, and IW-15.

- August 28, 2003 – Continue reagent injections as referenced above but add shallow Injection Well MW-12 to provide additional lateral treatment between Injection Wells IW-5 and IW-6.

- October 29, 2003 – Continue reagent injections as referenced above but begin the addition of sodium bicarbonate to the injection solution in an effort to counteract pH decrease observed within select injection and monitoring wells.

- Week of May 2, 2005 – Begin revised injection methodology for all injection wells. Revisions to injection methodology include the use of significantly larger injection volumes, lower injection concentration, and less frequent injection schedule. The rationale is based on ensuring that reagents are dispersed as plug flow across the entire lateral extent of the injection transect (i.e., does not assume that lateral dispersion or diffusion are significant mechanisms for reagent transport/spread downgradient). The lower injection concentration eliminates fluctuations in pH which foregoes the need to add sodium bicarbonate. The larger injection volume results in a decrease in injection event frequency. In addition, the larger injection volumes resulted in larger injection radii which required fewer injection wells to achieve coverage across the entire width of the downgradient plume. The revised downgradient injection well program included the following wells:

    - Shallow Injection Wells IW-6 and IW-16 and Intermediate Injection Wells IW-11, IW-13, IW-14, and IW-15.

  It should be noted that the revised injection methodology allowed for the distribution of total organic carbon (TOC) at lateral downgradient locations including monitoring wells MW-34 and MW-35. TOC was not distributed to the vicinity of MW-34 or MW-35 prior to this injection event.

- Week of December 19, 2005 – Begin full-scale reagent injections including source area injection wells IW-26 and IW-27. The methodology for source area injections is to inject upgradient of wells containing NAPL and allow advective groundwater flow

to distribute reagent within areas between IW-26 and IW-27 and the downgradient IRZ.

- June 30, 2006 – Increased the injection volume in downgradient shallow Injection Well IW-16. Injection volume was increased to provide greater lateral coverage towards downgradient compliance well MW-4.

- June 17, 2008 – Replaced shallow source area Injection Well IW-26 with shallow source area well IW-24. The replacement was made based on the results of analytical data from well IW-24 that indicated all dissolved and adsorbed phase mass had been treated between these two wells (i.e., IW-24 and IW-26).

An assessment of the performance of the anaerobic IRZ with respect to the ROD requirements is provided in Section 6.0.

3.2 Non-Aqueous Phase Liquid Gauging and Hand bailing

As referenced above, physical NAPL removal (i.e., NAPL hand bailing) is currently being implemented to recover drainable NAPL, and thereby remove, to the extent practicable, the primary source of the dissolved phase groundwater plume. For discussion purposes herein, "NAPL" refers to both dense non-aqueous phase liquid (DNAPL) and light non-aqueous phase liquid (LNAPL). NAPL is hand bailed from any well that contains measurable amounts of NAPL during the gauging events. Wells IW-1, IW-18, IW-20, and IW-25 are currently being used to recover NAPL at the site. Absorbent socks are currently installed in wells IW-3 and IW-9 to recover trace amounts of LNAPL that were detected in April 2008.

A total of 13 wells currently comprise the well network for NAPL gauging associated with the remedy. NAPL gauging is conducted to monitor the effectiveness of the NAPL recovery program on-site during operation of the remedy and to continue to monitor the distribution of NAPL at the Site. Wells IW-1, IW-3, IW-9, IW-17, IW-18, IW-19, IW-20, IW-21, IW-22, IW-23, IW-25, MW-13, and the former diffusion well are gauged on a quarterly basis. However, more frequent monitoring and recovery of NAPL is conducted, as necessary. Monitoring and recovery of NAPL was conducted at well IW-18 on a monthly basis between April 2008 and December 2008 because of the detection of significant thicknesses of LNAPL (see Section 5.2). In addition, the water-level is measured in well MW-15 on a quarterly basis.

For each monitoring well, fluid-level measurements are collected by measuring the depth-to-product, depth-to-groundwater, and total depth from the surveyed measuring point identified

on each well casing. The fluid-level measurements are made to the nearest one-hundredth of a foot with an electronic interface meter.

An assessment of the performance of the NAPL hand bailing with respect to the ROD requirements is provided in Section 6.0.

4. Baseline Environmental Conditions

4.1 Groundwater

Groundwater quality conditions prior to implementation of anaerobic IRZ technology are based on the June 2003 downgradient IRZ and May 2005 source area IRZ baseline contaminant distribution data, which are shown on Figure 4. These data are summarized below.

4.1.1 Downgradient IRZ Baseline Groundwater Conditions

To establish baseline groundwater conditions prior to the start of the downgradient IRZ pilot test in August 2003, an initial round of groundwater elevation measurements and groundwater quality samples were collected in June 2003. In addition, to establish site-wide baseline groundwater conditions for longer-term performance monitoring beyond the pilot test data collection period, groundwater quality samples were collected from additional select shallow and intermediate zone monitoring wells. The baseline VOC plume configuration is discussed relative to the shallow (45 to 60 feet below land surface [ft bls]), intermediate (60 to 90 ft bls), and deep (130 to 185 ft bls) aquifer zones.

Total VOC (TVOC) concentrations in the shallow zone ranged from 7 micrograms per liter (µg/L) in MW-1 to 52,225 µg/L in MW-13. The most significant concentrations were detected just east of the loading dock area. A second area of elevated concentrations were detected in the vicinity of MW-7 (11,852 µg/L) and MW-11 (10,828 µg/L).

TVOC concentrations in the intermediate zone ranged from 84 µg/L in IW-15 to 12,048 µg/L in MW-27D. Elevated concentrations were also detected just east of the loading dock area at MW-13D (5,970 µg/L) and IW-14 (6,421 µg/L).

TVOC concentrations in the deep zone ranged from 13 µg/L in MW-20D to 202 µg/L in MW-18D. These wells are both located in the area just east of the loading dock area where elevated concentrations were reported in the shallow and intermediate zones. The third

deep zone monitoring well (MW-19D), which is located downgradient of the source area, exhibited a TVOC concentration of 40.8 µg/L.

The highest TVOC concentration in the deep zone was reported in MW-18D (202 µg/L), which is screened from 133 to 143 ft bls. However, the tetrachloroethene (PCE) concentration in MW-18D was only 20 µg/L, with the remaining VOC mass comprised of transformation products trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE).

4.1.2 Source Area IRZ Baseline Groundwater Conditions

To establish baseline groundwater conditions in the source area prior to the start of the source area IRZ injections in December 2005, an initial round of groundwater quality samples were collected in May 2005. Shallow zone wells IW-2, IW-4, IW-17, IW-21, IW-22, MW-13, and MW-14 and intermediate zone wells IW-8, IW-18, IW-23, IW-25, and MW-13D were sampled for VOCs. Shallow zone wells IW-1 and IW-24 and intermediate zone well IW-20 were not sampled for VOCs due to the presence of NAPL.

The source area IRZ baseline VOC analytical results indicated the following:

- There was a significant amount of VOC mass present in the vicinity of the suspected release area. This was evidenced by elevated TVOC concentrations within intermediate wells IW-18 (88,942 µg/L), MW-13D (29,490 µg/L), IW-23 (22,531 µg/L), and IW-25 (19,856 µg/L) and shallow wells IW-17 (21,764 µg/L), MW-13 (18,644 µg/L), IW-4 (11,578 µg/L), and IW-22 (10,427 µg/L).

- The limits of the "source strength mass" was bounded by wells IW-22 and IW-23 to the west, IW-1 to the east, and wells IW-24 and IW-25 to the north. This was evidenced on the west by elevated TVOC concentrations at IW-22 (10,427 µg/L) and IW-23 (22,531 µg/L) but a significantly lower TVOC concentration at MW-14 (121 µg/L), located approximately 15 feet west; evidenced on the east by the presence of NAPL at IW-1 but relatively low TVOC concentrations at adjacent wells IW-8 (493 µg/L) and IW-2 (511 µg/L); and evidenced to the north by the presence of NAPL at IW-24 and an elevated TVOC concentration at IW-25 (19,856 µg/L) but a comparatively lower TVOC concentration at boring location AB-2 (6,986 µg/L [sample collected during 2003 supplemental source area investigation]), which was located approximately 20 feet upgradient of wells IW-24 and IW-25.

4.2 Non-Aqueous Phase Liquid

Prior to the start of the downgradient IRZ pilot test in August 2003, NAPL was present in wells IW-1 and IW-9. Prior to the start of the source area IRZ injections in December 2005, NAPL was present in wells IW-1 and IW-20.

5. Current Status of Environmental Conditions

5.1 Groundwater Quality

During the December 2008 groundwater monitoring event, IRZ performance monitoring, compliance monitoring, and "site-wide" dissolved-phase VOC plume configuration (annual) monitoring were conducted. Tables 1 and 3 provide the VOC groundwater quality data for the period of 2003 through 2008. Table 2 provides TOC results, light hydrocarbons results, select VOC results, and field parameter measurements for the period of 2006 through 2008. The December 2008 contaminant distribution data are shown on Figure 5. These data are summarized below.

The "site-wide" dissolved-phase VOC plume configuration monitoring data collected from monitoring wells MW-14 and MW-15 indicate that VOCs were not detected above their respective reporting limits. The compliance monitoring data collected from shallow zone monitoring wells MW-3, MW-4, and MW-31, and intermediate zone monitoring wells MW-16D, MW-34, and MW-35 indicate that VOCs were generally detected at concentrations below NYSDEC Standards and Guidance Values (SGVs), with the exception of toluene (7 µg/L) at MW-16D and trans-1,2-dichloroethene (trans-1,2-DCE) (11 µg/L) at MW-34. These data indicate that a clean water front has been established at the downgradient property boundary. The monitoring data collected from deep zone monitoring wells MW-18D, MW-19D, MW-20D, and the former diffusion well indicate that VOCs were detected at low-level concentrations with the exception of MW-18D. The data suggest that the dissolved phase daughter-product VOCs (VC and cis-1,2-DCE) observed within deep zone monitoring well MW-18D may be transitional in nature due to strong dissolved phase diffusion gradients caused by mining out/dissolution and degradation of mass within the source area. As discussed in Section 3.0, the remediation of plume "fringes" (i.e., areas that contain dissolved phase mass through mass diffusion only) will be achieved through natural attenuation following removal of the source mass.

The IRZ performance monitoring data collected from shallow zone monitoring wells MW-7 and MW-13, and intermediate zone monitoring well MW-28D indicate that elevated VOC concentrations are present in the "source area" and the "downgradient plume". The "source

area" and the "downgradient plume" are defined in Section 3.1. These areas are conceptualized to be narrow regions located along the longitudinal axis of the plume. The IRZ performance monitoring data collected from shallow zone monitoring wells IW-22 and IW-17, and intermediate zone monitoring well MW-13D indicate that lower VOC concentrations are present in the vicinity of these wells. The data suggest that the dissolved phase daughter-product VOCs (VC and cis-1,2-DCE) observed within intermediate zone monitoring well IW-23 may be due to strong dissolved phase diffusion gradients caused by mining out/dissolution and degradation of mass within the source area, similar to MW-18D.

5.2 NAPL

Tables 4 and 5 provide the fluid-level gauging measurements in the outdoor wells and indoor wells, respectively, for the period of January 2003 through December 2008.

NAPL is currently present in wells IW-1, IW-18, IW-20, and IW-25. The current distribution of drainable NAPL correlates with the "source area" and there is no evidence, based on the quarterly NAPL gauging data, that there has been a horizontal spread or vertical migration of NAPL from the source area to other areas.

The source area IRZ injections are facilitating the recovery of NAPL, as evidenced by the significant thicknesses of LNAPL in IW-18 between April and December 2008. The LNAPL thicknesses in IW-18 began to exhibit a declining trend in December 2008 and this declining trend has continued through February 2009 (see Table 5). It should be noted that the top of the well screen is approximately 25 feet below the water table (i.e., the LNAPL is entering the well at depth and being trapped in the well casing as it rises to the top of the water column). The exact mechanism for enhanced NAPL recovery at the site is unknown, but it could be the result of mild sufactants/cosolvents generated within the IRZ, a change in the physical property of the NAPL (i.e., lowering its specific gravity), or a combination of these factors. The result is that previously residual NAPL (non-drainable) is able to overcome capillary forces and remobilize as recoverable (drainable) NAPL.

6. Assessment of Remedy Performance during Evaluation Period

The following section summarizes the performance of the downgradient and source area IRZs and NAPL hand bailing.

6.1 Anaerobic In-Situ Reactive Zone

The following section summarizes the performance of the downgradient and source area IRZs from August 2003 through December 2008.

6.1.1 Downgradient In-Situ Reactive Zone

August 2003 to December 2008 TOC and light hydrocarbon results for the downgradient area indicate that a strongly reducing anaerobic IRZ capable of the complete mineralization of chlorinated VOCs (CVOCs) has been established along the entire length, width, and depth of the treatment zone. This is corroborated by the observation of sufficient TOC to maintain strongly reducing conditions at all lateral and downgradient compliance wells except as noted below. Similarly, significant concentrations of ethene and ethane have been observed at all monitoring wells currently located within the downgradient anaerobic IRZ except as noted below. This indicates that CVOC mass is being completely degraded to final end products via a biologically mediated pathway. Engineering evaluation charts for downgradient IRZ monitoring wells that include the concentration of TOC, methane, ethene and ethane are provided in Appendix B-1.

Specific observations are as follows:

- The TOC concentration within downgradient injection wells IW-6 and IW-10 was 263 milligrams per liter (mg/L) and 650 mg/L during the December 2008 monitoring event, respectively. The data are consistent with historical data and indicate that sufficient TOC is being delivered to the subsurface and that the current injection frequency is appropriate. It should also be noted that samples collected for TOC are collected within 1-week prior to the next injection event and therefore represent worst-case TOC levels immediately prior to a subsequent injection.

- The average TOC concentration in all shallow downgradient zone monitoring wells located within the current limits of the IRZ was approximately 87 mg/L during the December 2008 monitoring event. The data corroborate TOC data collected from the injection wells and indicates that sufficient TOC is being delivered to the subsurface to maintain the IRZ. As referenced in previous documentation to the NYSDEC, a general rule-of-thumb is that a TOC concentration of 20 mg/L greater than background conditions is typically sufficient to maintain strongly anaerobic conditions.

- The TOC concentration was not greater than 20 mg/L above background conditions at shallow sidegradient compliance wells MW-4 and MW-3 during the December 2008 monitoring event. Despite the lack of TOC, CVOC data indicate that the anaerobic IRZ is treating groundwater to below maximum contaminant levels (MCLs) at these locations. Sufficient TOC is observed at shallow downgradient compliance well MW-31 (i.e., 120 mg/L).

- The average TOC concentration in all intermediate downgradient zone monitoring wells located within the current limits of the IRZ was approximately 308 mg/L during the December 2008 monitoring event. The data corroborate TOC data collected from the injection wells and indicates that sufficient TOC is being delivered to the subsurface to maintain the IRZ.

- The TOC concentration was less than 20 mg/L above background conditions at intermediate downgradient compliance well MW-16D and intermediate sidegradient compliance well MW-35. Despite the lack of TOC, CVOC data indicate that the anaerobic IRZ is treating groundwater to below MCLs at these locations. Sufficient TOC is observed at intermediate sidegradient compliance well MW-34 (i.e., 39.6 mg/L).

- The concentration of methane increased substantially (i.e., 3 to 4 orders of magnitude) in all downgradient wells that are within the limits of the anaerobic IRZ when comparing baseline data (June 2003) with the most current monitoring event. The onset of methanogenesis has been correlated to the onset of complete mass degradation (i.e., the degradation of 1,2-DCE and VC to ethene and ethane) at anaerobic IRZ sites around the world. As shown in Appendix B, all monitoring wells sampled that are currently within the downgradient IRZ exhibit this pattern with the exception of shallow monitoring well MW-7 (discussed below).

- Similarly, the concentration of ethene and/or ethane increased substantially (i.e., 3 to 4 orders of magnitude) in all downgradient wells that are within the limits of the anaerobic IRZ when comparing baseline data (June 2003) with the most current monitoring event. These data indicate that CVOC mass is being completely degraded to innocuous end products through a biologically mediated pathway. As shown in Appendix B, the increase in ethene and/or ethane typically occurred following the establishment of strongly methanogenic conditions.

- Finally, it should be noted that off-site intermediate Monitoring Well ERM-MW-02, which is located directly downgradient of intermediate zone compliance Monitoring

Well MW-16D, was monitored for TOC, methane, ethene and ethane, and VOCs during the September 2008 and December 2008 monitoring events completed by ARCADIS. The data at ERM-MW-02 indicate TOC slightly above background conditions but significantly elevated methane, ethene, and ethane. The data suggest that the anaerobic IRZ continues to degrade CVOC mass beyond the property boundary between MW-16D and ERM-MW-02.

VOC analytical results corroborate biogeochemical data indicating that the downgradient IRZ is being maintained at conditions conducive for the complete mineralization of CVOCs. The data also indicate that the downgradient IRZ has successfully mined out (i.e., desorbed mass off of the aquifer matrix) significant mass and made it available for treatment within the anaerobic IRZ. Finally, MCLs have been achieved at all lateral and downgradient compliance wells as of December 2008. Similar to previous Progress Reports, the values of total micromolar equivalents per liter (umol/L) provided below only include the individual constituents PCE, TCE, 1,2-DCE, and VC. Engineering evaluation charts for downgradient IRZ monitoring wells that include the concentration of target CVOCs (i.e., PCE, TCE, 1,2-DCE, and VC) are provided in Appendix B-1. A summary of relevant findings and conclusions is provided below.

- As of December 2008, the concentration of target CVOCs has decreased to below MCLs within all shallow and intermediate zone compliance wells (i.e., shallow Monitoring Wells MW-4, MW-3, and MW-31 and intermediate Monitoring Wells MW-16D, MW-34, and MW-35). The data corroborate biogeochemical data and confirms that the full width and length of the plume is being treated. This data also confirm that the downgradient IRZ is strong enough to completely destroy mass being generated as a result of desorption and enhanced NAPL dissolution within the source area.

- Total micromolar equivalents for target CVOCs have decreased by an average of 96-percent from baseline conditions in all downgradient monitoring wells sampled as part of the December 2008 monitoring event with the exception of MW-7. This overall decrease is significant when compared to traditional treatment methods such as pump-and-treat that can take 30 years or longer to achieve marginal decreases in overall mass at a site.

- Total micromolar equivalents for target CVOCs in Monitoring Well MW-7 increased significantly between the June 2008 and the December 2008 monitoring events. It is believed that the increase is a direct result of source area NAPL dissolution and adsorbed phase mass release. ARCADIS has developed a contingency plan to

closely track the observed spike and mass. The contingent activities are provided in Section 8.2.

- As referenced previously, off-site intermediate Monitoring Well ERM-MW-02 was monitored for TOC, methane, ethene and ethane, and VOCs during the September 2008 and December 2008 monitoring events completed by ARCADIS. The VOC data at ERM-MW-02 corroborate biogeochemical and final end product data. Data also confirm that a clean water front has been established at the downgradient property boundary and in nearby off-site monitoring wells.

In summary, the anaerobic IRZ is operating as designed, is completely degrading mass to MCLs at the compliance plane, and has established a clean water front at the downgradient compliance plane in both the shallow and intermediate zones.

6.1.2 Source Area In-Situ Reactive Zone

August 2003 to December 2008 TOC and light hydrocarbon results for the source area IRZ indicate that a strongly reducing anaerobic IRZ capable of the complete mineralization of CVOCs has been established along the entire length, width, and depth of the source area. This is corroborated by the observation of sufficient TOC to maintain strongly reducing conditions at all lateral and downgradient source area wells except as noted below. Similarly, significant concentrations of ethene and ethane have been observed at all monitoring wells currently located within the source area anaerobic IRZ. This indicates that CVOC mass is being completely degraded to final end products via a biologically mediated pathway.

Specific observations are as follows:

- The TOC concentration within source area injection wells IW-24 and IW-27 was 519 mg/L and 2460 mg/L during the December 2008 monitoring event, respectively. The data are consistent with historical data and indicate that sufficient TOC is being delivered to the subsurface and that the current injection frequency is appropriate. It should also be noted that samples collected for TOC are collected within 1-week prior to the next injection event and therefore represent groundwater conditions immediately prior to a subsequent injection.

- The average TOC concentration in all shallow source area monitoring wells located within the current limits of the IRZ was approximately 628 mg/L during the December 2008 monitoring event. The data corroborate TOC data collected from

the injection wells and indicates that sufficient TOC is being delivered to the subsurface to maintain the IRZ.

- The TOC concentration was not greater than 20 mg/L above background conditions at shallow source area well MW-13 during the December 2008 monitoring event. Despite the lack of TOC, CVOC data indicate that the anaerobic IRZ is treating groundwater in the vicinity of this location.

- The average TOC concentration in all intermediate source area monitoring wells located within the current limits of the IRZ was approximately 254 mg/L during the December 2008 monitoring event. The data corroborate TOC data collected from the injection wells and indicate that sufficient TOC is being delivered to the subsurface to maintain the IRZ.

- The TOC concentration was less than 20 mg/L above background conditions at intermediate source area well IW-8 during the December 2008 monitoring event. Despite the lack of TOC during the most recent monitoring event, historical TOC, methane, ethene and ethane, and CVOC data indicate that the anaerobic IRZ is treating groundwater at this location. Specifically, TOC has been observed as high as 30.6 mg/L (November 2007) and methane as high as 5,500 ug/L during the same monitoring event.

- The concentration of methane increased substantially (i.e., 3 to 4 orders of magnitude) in most source area wells that are within the limits of the anaerobic IRZ when comparing baseline data (May 2005) with the most current monitoring event. As shown in Appendix B, all monitoring wells sampled that are currently within the source area IRZ exhibit a similar pattern of increased methane followed by the formation of CVOC daughter and final end products. It should be noted that although engineering charts for source area Monitoring Wells IW-22 and IW-23 have not been provided, the concentration of methane has increased similarly at these locations.

- Similarly, the concentration of ethene and/or ethane increased substantially (i.e., 1 to 4 orders of magnitude) in most source wells that are within the limits of the anaerobic IRZ when comparing baseline data (May 2005) with the most current monitoring event. These data indicate that CVOC mass is being completely degraded to innocuous end products through a biologically mediated pathway. As shown in Appendix B, the increase in ethene and/or ethane typically occurred following the establishment of strongly methanogenic conditions. It should be noted

that although engineering charts for source area Monitoring Wells IW-22 and IW-23 have not been provided, the concentration of ethene has increased significantly at IW-23.

VOC analytical results for source area monitoring wells corroborate TOC and methane data and indicate that an anaerobic IRZ is being established within the entire length, width, and depth of the source area. Specifically, the data show significantly enhanced rates of reductive dechlorination through a significant shift in the ratio of parent compound (i.e., PCE) to daughter compound (i.e., 1,2-DCE). In addition, the data support that enhanced NAPL dissolution could be occurring at locations currently containing NAPL. Specific observations are as follows:

- Total micromolar equivalents for target CVOCs have decreased significantly in 9 of the 11 shallow and intermediate source area monitoring wells. Specifically, total micromolar equivalents have decreased by an average of 85-percent from baseline conditions within all source area monitoring wells sampled between May 2005 and December 2008 with the exception of monitoring wells MW-13 and IW-18.

- Total micromolar equivalents for target CVOCs in Monitoring Well IW-18 increased by greater than 100-percent when comparing baseline conditions to the December 2006 monitoring event. It should be noted that IW-18 has historically exhibited PCE concentrations highly suggestive of DNAPL. Accordingly, the observed increase in total micromoles is wholly suggestive of enhanced PCE-NAPL dissolution.

- Total micromolar equivalents for target CVOCs in Monitoring Well IW-18 remained approximately 50-percent greater than baseline conditions during the June 2007 monitoring event. It should be noted that groundwater monitoring of this well was discontinued following the June 2007 monitoring event due to the continued presence of NAPL.

- Total micromolar equivalents for target CVOCs in Monitoring Well MW-13 increased by almost 700-percent when comparing baseline conditions to the September 2007 monitoring event. The observed increase in total micromoles is highly suggestive of enhanced NAPL dissolution. Target micromolar equivalents were 120-percent greater than baseline conditions as of the December 2008 monitoring event.

- Total micromolar equivalents for target CVOCs in former shallow source area Monitoring Well IW-24 decreased by almost 100-percent for two consecutive monitoring events (December 2006 and March 2008). IW-24 was subsequently

converted into the primary source area shallow injection event beginning in June 2008 based on this observation.

In summary, a strongly reducing anaerobic IRZ has been established within the entire source area and is operating as designed, has resulted in a significant decrease in total source area mass through complete degradation, and is enhancing the rate of NAPL dissolution.

6.2 NAPL Hand bailing

This section summarizes the performance of the NAPL hand bailing efforts.

NAPL hand bailing has been an effective remedial technology to recover drainable NAPL, and thereby remove, to the extent practicable, the primary source of the dissolved phase groundwater plume. Table 6 provides a summary of the NAPL recovery efforts to date.

DNAPL movement below the water table is influenced by DNAPL mass and physiochemical characteristics. There are several characteristics associated with both the subsurface media and the DNAPL that largely determine the fate and transport of DNAPL (Huling and Weaver, 1991). NAPL characteristics include density, viscosity, solubility, vapor pressure, volatility, interfacial tension, and wettability; subsurface media characteristics include capillary pressure, pore size distribution, stratigraphic gradients, and groundwater flow velocity. In addition, saturation dependent functions will influence the fate and transport of the NAPL and include residual saturation and relative permeability.

In order to characterize the NAPL at the site, samples were collected in September 2001 from wells IW-1, IW-9, and MW-13 for submittal to the laboratory for chemical analysis and determination of physical properties. The samples were submitted for the following analyses: gas chromatography/flame ionization detection (GC/FID) total petroleum hydrocarbons (TPH) gasoline range organics (GRO)/diesel range organics (DRO) (IW-9 and MW-13 only), GC/FID fingerprinting (IW-9 and MW-13 only), VOCs, density, specific gravity, and viscosity.

The VOC data collected in 2001 indicated that IW-9 and MW-13 contained petroleum-based constituents (i.e., ethylbenzene and xylene) as well as chlorinated hydrocarbons, whereas IW-1 contained only chlorinated hydrocarbons. Due to the presence of LNAPL in IW-9 and MW-13, the samples collected from these wells were submitted for GC/FID TPH GRO/DRO and GC/FID fingerprinting analyses. The laboratory GC/FID fingerprint results indicated that the LNAPL in IW-9 and the DNAPL and LNAPL in MW-13 most closely resembled a mixed

waste oil product in the range of mineral spirits to mineral oil and that the product also contained high levels of PCE. The density values reported for the NAPL samples collected in 2001 ranged from 0.98 to 1.03 grams per cubic centimeter (g/cm^3). The specific gravity values reported for the NAPL samples also ranged from 0.98 to 1.03.

Due to the detection of 3.01 feet of LNAPL in well IW-18 in September 2007, a LNAPL sample was collected from IW-18 and submitted to the laboratory for the analysis of VOCs, TPH GRO/DRO, and physical properties (density, specific gravity, and viscosity). The purpose of this follow up LNAPL sampling was to determine if the chemical composition and physical properties of the NAPL had changed. At the request of the NYSDEC, a description of the LNAPL sample was also recorded. The LNAPL sample was decanted into a glass container and allowed to equilibrate. The LNAPL sample initially consisted of a dark brown discrete NAPL layer (top layer) and a light tan emulsified NAPL layer (bottom layer). After allowing for a period of equilibration, only the dark brown discrete NAPL layer was present. The LNAPL sample exhibited a strong solvent-type odor and had a low viscosity (i.e., the LNAPL readily decanted into the sample containers). The LNAPL sample was similar in appearance to previous LNAPL samples that were collected for laboratory analysis.

The analytical results for the LNAPL sample collected in 2007 indicated that elevated concentrations of PCE, TCE, and cis-1,2-DCE were detected in the LNAPL sample. Consistent with the 2001 NAPL analyses, PCE is the primary VOC that was detected in the NAPL. The analytical results also indicated that the physical properties of the LNAPL had changed. The density of the IW-18 LNAPL sample was reported as 0.91 g/cm^3. A previous LNAPL sample collected from IW-9 in 2001 had a reported density of 0.98 g/cm^3. The specific gravity of NAPL can change over time due to weathering (i.e., preferential dissolution or other mechanisms) (ITRC, 2003). Some of the NAPL components dissolve or are otherwise lost and the mixture becomes less dense than water. As discussed previously, the groundwater monitoring data from select wells is highly suggestive of enhanced NAPL dissolution and VOC data support the fact that enhanced NAPL dissolution could be occurring at locations currently containing NAPL.

Based on the historical NAPL gauging data (e.g., significant LNAPL thicknesses in well IW-18 in 2007 and 2008), it is evident that a significant amount of residual NAPL (non-drainable NAPL that is immobilized by capillary forces as discontinuous ganglia under ambient groundwater flow conditions) was trapped in the aquifer matrix. It is believed that changes in NAPL characteristics, hydrogeologic conditions, and hydrogeochemical processes at different times during the remedial effort have resulted in changes in the amount of NAPL that drains into the well network and is available for recovery. As discussed in Section 5.2, the source area IRZ injections are facilitating the recovery of NAPL, most notably in well IW-

18 (see Table 5). The exact mechanism for enhanced NAPL recovery at the site is unknown, but it could be the result of mild sufactants/cosolvents generated within the IRZ, a change in the physical property of the NAPL (i.e., lowering its specific gravity), or a combination of these factors. The result is that previously residual NAPL is able to overcome capillary forces and remobilize as recoverable (drainable) NAPL.

As discussed in Section 5.2, NAPL is currently present in wells IW-1, IW-18, IW-20, and IW-25. The current distribution of drainable NAPL correlates with the "source area" and there is no evidence, based on the quarterly NAPL gauging data, that there has been a horizontal spread or vertical migration of NAPL from the source area to other areas.

In summary, NAPL hand bailing is currently an effective and technically appropriate remedial technology to recover drainable NAPL. The top of the well screen for wells IW-18, IW-20, and IW-25 is approximately 25 feet below the water table (i.e., the LNAPL is entering the well at depth and being trapped in the well casing as it rises to the top of the water column). Therefore, the well casing acts as a "reverse" sump that holds the NAPL that accumulates in the well under ambient conditions until it is manually removed by hand bailing.

6.3 Deep Zone Groundwater

This section summarizes the status of deep zone groundwater (i.e., groundwater located below the current treatment depth of approximately 100 ft bls) as it relates to the groundwater remedy and ROD. Conclusions and recommendations for deep zone groundwater have been provided in subsequent sections of this report. Engineering evaluation charts for deep zone monitoring wells MW-18D, MW-19D, MW-20D, and the Former Diffusion Well that include the concentrations of target CVOCs (i.e., PCE, TCE, 1,2-DCE, and VC) are provided in Appendix B-1. A summary of relevant findings and conclusions is provided below.

- Total micromolar equivalents for target CVOCs have decreased in two of the four deep zone monitoring wells and increased in two of the four monitoring wells as of December 2008. Specifically:
    - Monitoring Well MW-20D (screened 175 to 185 ft bls) has decreased by 76-percent when comparing baseline (September 2005) to December 2008 data.

- The Former Diffusion Well (screened 108 to 116 ft bls) has decreased by 67-percent when comparing baseline (January 2006) to December 2008 data.

- Monitoring Well MW-19D (screened 160 to 170 ft bls) has increased by 20-percent when comparing baseline (September 2005) to December 2008 data.

- Monitoring Well MW-18D (screened 133 to 143 ft bls) has increased by approximately 800-percent when comparing baseline (September 2005) to December 2008 data.

➢ TOC has not been detected above background conditions at Monitoring Wells MW-18D, MW-19D or the Former Diffusion Well. Monitoring Well MW-20D has not been sampled for TOC.

➢ Methane was detected at a concentration significantly greater than background conditions in Monitoring Wells MW-18D (2,500 ug/L) and the Former Diffusion Well (7,900 ug/L) during the December 2008 monitoring event. For comparative purposes, the concentration of methane at baseline was less than 1 ug/L for most monitoring wells sampled at the Site. Monitoring Wells MW-19D and MW-20D have not been sampled for methane.

➢ Similarly, ethene and/or ethane were detected at a concentration greater than background conditions in Monitoring Wells MW-18D and the Former Diffusion Well. Specifically:

- Monitoring Well MW-18D had an ethene concentration of 1,700 ug/L during the December 2008 monitoring event. Although baseline data does not exist for MW-18D, the background concentration at the Site is less 0.01 ug/L.

- The Former Diffusion Well had an ethene and ethane concentration of 4.2 ug/L and 11 ug/L, respectively, during the December 2008 monitoring event.

Combined, the data suggest that there is concentration gradient-based diffusion of target CVOCs, ethene, ethane and methane occurring beneath areas where high concentrations of these compounds exist. The data do not suggest that mass is sinking (i.e., DNAPL

migration) because the CVOCs that are present in the deep zone are daughter compounds (i.e., 1,2-DCE and VC) and not PCE (i.e., DNAPL). Moreover, the absence of TOC above background conditions in deep zone monitoring wells demonstrate that an IRZ is not present in this zone, which precludes the notion that PCE could be migrating to that depth and then undergoing degradation. TOC is absent in the deep zone because the relative vertical concentration gradient is much lower than that of CVOCs and/or methane.

Furthermore, CVOC data for Monitoring Well MW-20D support the assessment of diffusion-based vertical COC migration. Specifically, the relatively low concentration of CVOCs above this screen interval creates, by far, the lowest concentration gradient between the intermediate (MW-13D) and deep (MW-20D) wells currently sampled. As referenced above, target CVOCs at MW-20D have actually decreased by 76-percent since the inception of the groundwater remedy in 2003. The data are also important because the concentration of target CVOCs at MW-20D would, in theory, increase through diffusive mass transfer if significant quantities of untreated mass were present above the MW-20D screen zone. Similar conclusions can be drawn from current low CVOC concentrations at MW-19D, since it is reasonable to assume that CVOC concentrations in the shallow and intermediate zones in the vicinity of MW-19D (i.e., immediately downgradient of the "downgradient IRZ" injection wells) are relatively low. Conversely, at this stage of the remedial life-cycle, concentrations of CVOC daughter compounds in the shallow and intermediate zones in the vicinity of MW-18D are expected to be elevated due to its close proximity to areas of NAPL dissolution, thereby resulting in the transient diffusion-based concentrations of daughter compounds (i.e., cis-1,2-DCE and VC) in MW-18D. Collectively, these deep zone wells provide effective sentinel monitoring points to evaluate whether diffusive-based mass transfer is resulting in trends that may warrant additional monitoring or optimization of remedial measures.

7. Current Status of Remedial Action Objectives

The following section provides a summary of the current status of the remedial performance with respect to each of the remedial objectives referenced in Section 2.0. Specific remedial goals have been provided in *italics* followed by a brief description of the current status of each objective.

1. *Eliminate or reduce to the extent practicable exposures of persons at or around the Site to chlorinated solvents and petroleum in the underlying groundwater.*

There are two remedial components that are in the process of being implemented to meet this objective. The first component is through the establishment of an environmental

easement and implementation of a Site Management Plan (SMP) currently awaiting NYSDEC approval.

The second component consists of the elimination of VOCs and NAPL, to the extent practicable, from the groundwater. This component is currently being achieved through the implementation of the anaerobic IRZ and NAPL hand bailing. As referenced in Sections 6.1, the anaerobic IRZ has been established along the entire length, width, and depth of the source area and is completely degrading mass to harmless end products. In addition, the IRZ is enhancing the rate of NAPL dissolution and has made NAPL more available for recovery through NAPL hand bailing.

2. *Eliminate or reduce to the extent practicable the migration of on-site groundwater contamination to off-site where additional exposures to contaminated groundwater are possible.*

This remedial goal has been achieved through operation of the downgradient anaerobic IRZ. As referenced in Sections 5.1 and 6.1.1, the anaerobic IRZ has reduced the concentration of all site-related VOCs to below NYSDEC SGVs at the downgradient property boundary as of December 2008. The data are further corroborated by off-site Monitoring Well ERM-MW-02 data, which exhibited target CVOC concentrations slightly above (VC), or below (PCE, TCE, 1,2-DCE) MCLs. Combined, the data indicate that the anaerobic IRZ has eliminated the off-site migration of site-related VOCs.

3. *Attain to the extent practicable the elimination of VOC source areas in groundwater, thereby removing the source of the dissolved groundwater plume.*

This remedial goal is in the process of being achieved through operation of the downgradient and source area anaerobic IRZs. As referenced in Section 3.0, source mass is defined as areas containing NAPL or are suspected of containing significant adsorbed phase mass. As referenced in Sections 6.1 and 6.2, the full length, width, and depth of the source area is currently being addressed through IRZ technology. In addition, NAPL hand bailing is being used to recover NAPL where present in wells.

4. *Attain to the extent practicable ambient groundwater quality standards at the downgradient property boundary, thereby preventing further impacts to off-site groundwater.*

See response to remedial objective 2 above.

5. *Ensure that indoor air quality continues to meet NYSDOH guidance values.*

As described in ongoing Progress Reports, the sub-slab depressurization system is operating as designed to ensure that indoor air quality meets NYSDOH guidance values.

Additional elements of the remedy are as follows:

6. *NAPL bailing at productive wells will continue until NAPL recovery is no longer productive.*

NAPL is hand bailed from any well that contains measurable amounts of NAPL during the gauging events. Wells IW-1, IW-18, IW-20, and IW-25 are currently being used to recover NAPL at the site. Absorbent socks are currently installed in wells IW-3 and IW-9 to recover trace amounts of LNAPL that were detected in April 2008.

7. *After a reasonable time period acceptable to the NYSDEC to allow some additional NAPL recovery by hand bailing, source area injections and monitoring will commence.*

As referenced in Section 3.2, commencement of the source area IRZ injections began during the week of December 19, 2005. Source area injections are currently ongoing.

8. *The injection of the carbohydrate solution will continue into the pilot test injection wells to maintain the established IRZ currently treating most of the dissolved plume.*

This objective has been achieved through continued operation of the downgradient IRZ. See Section 3.2 for a detailed chronology of the downgradient IRZ injection program.

9. *A remedial design program will be implemented to provide the details necessary for the construction, operation, maintenance and monitoring of the remedial program.*

The full-scale remedial design program was completed through preparation of the FER, which is awaiting NYSDEC approval. All elements related to the active remediation of groundwater within the FER have been implemented.

10. *Additional injection and monitoring wells will be constructed, as specified in the final remedy.*

The following additional injection and monitoring wells were installed as part of the final remedy following issuance of the ROD:

- Angle injection wells IW-26 (shallow) and IW-27 (intermediate) were installed in December 2005.

- Compliance plane intermediate monitoring wells MW-34 and MW-35 were installed in December 2005 and January 2006.

Based on the remedial performance evaluation included herein, ARCADIS believes that the existing injection and monitoring well infrastructure is sufficient to meet the remedial objectives for groundwater at the Site. However, additional wells may be added as a contingent measure depending on the results of the long-term groundwater monitoring program.

11. *The dissolved plume treatment and monitoring will be expanded to the new injection and monitoring wells related to that effort.*

All wells referenced above (i.e., remedial action objective number 9) have been incorporated as injection wells and/or monitoring wells as part of the final remedial program for the Site.

12. *If significant concentrations, as determined by the NYSDEC, of untreated 1,2-DCE or vinyl chloride are detected beyond the dissolved plume IRZ, either the IRZ will be adjusted to achieve effective treatment or a work plan for aerobic treatment will be developed and implemented for the residuals have a chance to pass beyond the downgradient property border.*

As referenced in Section 6.1.1, the concentration of target CVOCs has decreased to below MCLs within all shallow and intermediate zone compliance wells (i.e., shallow Monitoring Wells MW-4, MW-3, and MW-31 and intermediate Monitoring Wells MW-16D, MW-34, and MW-35) as of December 2008. This data also confirm that the downgradient IRZ is strong enough to completely destroy mass being generated as a result of desorption and enhanced NAPL dissolution within the source area. Finally, analytical data for off-site intermediate Monitoring Well ERM-MW-02 confirm that a clean water front has been established at the downgradient property boundary and in nearby off-site monitoring wells. This data also suggests that additional mass degradation is occurring beyond the on-site compliance plane.

If future long-term monitoring data indicate a prolonged increase of untreated 1,2-DCE or VC then a contingent activity will be implemented as outlined in the contingency plan of the Draft FER.

13. *If the source area treatment under Alternative 2 is ineffective, the incremental benefit of implementing the source area treatment outlined under either Alternative 3, Alternative 4 or potentially a new technology will be evaluated and implemented.*

Based on the remedial objectives written in the ROD and the FER, ARCADIS defines the term "ineffective" as either:

- The technology is not successfully establishing an anaerobic IRZ within the source area to allow for the complete reductive dechlorination of dissolved phase mass; or,

- The technology is not enhancing the rate of NAPL dissolution and/or recoverability.

As referenced in Section 6.1.2, an anaerobic IRZ that is achieving complete reductive dechlorination has been established within the entire length, width, and depth of the source area. This is evidenced by the presence of sufficient organic carbon to maintain strongly anaerobic conditions in all monitoring wells, a 3 to 4 order of magnitude increase in methane within all source area monitoring wells, and a 1 to 4 order of magnitude increase in ethene within all source area monitoring wells.

As referenced in Sections 6.1.2 and 6.2, the anaerobic IRZ has resulted in enhanced NAPL dissolution and an increase in the recoverability of NAPL at the Site. This is evidenced by up to a seven fold increase in total micromoles in Monitoring Well MW-13 and a significant increase in LNAPL recovery at Monitoring Well IW-18.

Finally, ARCADIS has completed a literature review of currently available alternate electron donors and other injection amendments for anaerobic IRZs as well as other source area removal technologies for CVOCs and NAPL (i.e., nano-scale ZVI, ISCO, etc.). Combined, the results of the performance evaluation of the existing anaerobic IRZ and NAPL hand bailing effort presented herein, along with the technology literature review, indicate that no additional amendments or revisions to the remediation program are warranted at this time. Specifically, there are no additional enhancements to the remediation that are technically practicable to implement that will provide significant benefit to the remediation at achieving the remedial objectives referenced previously. ARCADIS generally completes these reviews on an annual basis to determine if a more effective, cost competitive technology is available to meet remedial objectives.

8. Conclusions and Recommendations

The following section summarizes the conclusions and recommendations based on the results of performance and compliance monitoring provided herein.

8.1 Conclusions

Based on the information provided herein, ARCADIS makes the following conclusions:

- The remedy for groundwater has met or is in the process of meeting all requirements established in the ROD as referenced in Section 7.

- As of December 2008, the concentration of target CVOCs has decreased to below MCLs within all shallow and intermediate zone compliance wells (i.e., shallow Monitoring Wells MW-4, MW-3, and MW-31 and intermediate Monitoring Wells MW-16D, MW-34, and MW-35). The data also confirm that the downgradient IRZ is strong enough to completely destroy mass being generated as a result of desorption an enhanced NAPL dissolution within the source area.

- Total micromolar equivalents for target CVOCs have decreased by an average of 96-percent from baseline conditions in all downgradient monitoring wells sampled as part of the December 2008 monitoring event with the exception of MW-7.

- Total micromolar equivalents for target CVOCs have decreased significantly in 9 of the 11 shallow and intermediate source area monitoring wells. Specifically, total micromolar equivalents have decreased by an average of 85-percent from baseline conditions within all source area monitoring wells sampled between May 2005 and December with the exception of monitoring wells MW-13 and IW-18.

- Evidence suggests that the source area IRZ is enhancing the rate of NAPL dissolution as anticipated. Evidence suggests that the source area IRZ is increasing the recoverability of LNAPL as an added benefit to the remediation. The vertical and areal extent of NAPL appears stable.

- The concentration of target CVOCs increased during the December 2008 monitoring event in Monitoring Well MW-7. ARCADIS believes this dissolved phase mass has migrated from the source area as a result of enhanced NAPL dissolution. Although historical data demonstrate that the downgradient IRZ is capable of completely

degrading this mass, ARCADIS intends to implement contingent monitoring as referenced in the recommendations section below.

- The existing deep well data indicate that concentration based diffusive mass transfer is occurring at areas containing the highest concentration gradients for CVOCs. However, the data do not indicate that this mass is migrating laterally towards the property boundary as evidenced by data at deep Monitoring Well MW-20D. Nonetheless, ARCADIS intends to implement the contingent measures referenced in the recommendations section below.

- ARCADIS has completed an evaluation of alternate remedial methodologies for source area remediation. The results of the evaluation indicate that there are currently no technically practical alternate remediation techniques that incur significant remedial benefit above the current approach.

- Regarding the overall objectives of on-site remediation related to deep wells; our objective/goals has always been to target source strength mass, not diffusive based mass. Destruction of source based mass will result in relatively quick cleanup/attenuation of the diffusive based mass; particularly in a clean (low organic carbon) aquifer such as the upper glacial. This successful approach has already been demonstrated through achieving significant CVOC concentration reductions at all side-gradient "fringe" wells, and provides evidence that this approach will also clean up the deep zone.

8.2 Recommendations

Based on the information provided herein, ARCADIS makes the following recommendations:

- Continue to operate the downgradient and source area IRZs with the existing injection wells using the molasses concentration, injection volume, and frequency as currently implemented.

- Continue to complete NAPL gauging and hand bailing events on a monthly basis at select wells (e.g., IW-18). If the LNAPL thickness continues to decline in well IW-18, NAPL gauging and hand bailing events will be conducted on a quarterly basis.

- Conduct the following contingent activities based on the results of the December 2008 sampling event for Monitoring Well MW-7:

- Gauge MW-7 for the presence of NAPL in March 2009.
- Sample MW-7, MW-10, and MW-29 during the March 2009 quarterly sampling event and analyze for VOCs, TOC, and light hydrocarbons.
- Evaluate the data to assess data trends and the strength of the anaerobic IRZ.

➢ Conduct the following contingent activities for deep zone monitoring:

- In addition to the Long-Term Groundwater Monitoring Plan requirements, sample monitoring wells MW-19D and MW-20D on an as-needed basis.
- Use these monitoring wells as sentinel wells to evaluate whether diffusive-based mass transfer is resulting in CVOC concentration increases in the deep aquifer.
- Use the results to evaluate potential data gaps and the potential need for an additional deep zone monitoring well(s).

➢ Continue to complete annual technology reviews to determine if enhancements can be made to the source area remediation.

9. References

ARCADIS G&M, Inc. 2006. Final Engineering Report, 25 Melville Park Road Site, Melville, New York. June 29, 2006.

Huling, Scott G. and Weaver, James W. 1996. Ground Water Issue Dense Nonaqueous Phase Liquids, U.S. Environmental Protection Agency, Office of Research and Development, Office of Solid Waste and Emergency Response, EPA/540/4-91-002. March 1991.

The Interstate Technology & Regulatory Council (ITRC). 2003. An Introduction to Characterizing Sites Contaminated with DNAPLs. September 2003.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	IW-24	IW-24	IW-24	MW-15
		Sample Date:	6/26/2006	12/20/2006	3/24/2008	06/24/03
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<75	100	140	<10
Benzene	1		1.3 J	<10	<5	<5
Bromodichloromethane	50		<10	<10	<5	<5
Bromoform	50		<10	<10	<5	<5
Bromomethane	5		<10	<10	<5	<5
Methyl Ethyl Ketone	50		280	370 J	760 D	<10
Carbon Disulfide	60		<10	<10	<5	<5
Carbon Tetrachloride	5		<10	<10	<5	<5
Chlorobenzene	5		<10	<10	<5	<5
Chloroethane	5		<10	<10	<5	<5
Chloroform	7		<10	<10	<5	<5
Chloromethane	-		<10	<10	<5	<5
Dibromochloromethane	50		<10	<10	<5	<5
1,1-Dichloroethane	5		<10	<10	<5	<5
1,2-Dichloroethane	0.6		<10	<10	<5	<5
1,1-Dichloroethene	5		2.3 J	<10	<5	<5
1,2-Dichloropropane	1		<10	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<5
Ethylbenzene	5		<10	<10	<5	<5
2-Hexanone	50		<20	<20	<10	<10
Methylene Chloride	5		<10	<10	<5	<5
Methyl Isobutyl Ketone	-		<20	<20	<10	<10
Styrene	5		<10	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<5
Tetrachloroethene	5		2100 D	74	41	6
Toluene	5		6.1 J	<10	<5	<5
1,1,1-Trichloroethane	5		74	<10	<5	3 J
1,1,2-Trichloroethane	1		<10	<10	<5	<5
Trichloroethene	5		290	3.5 J	2.7 J	<5
Vinyl Chloride	2		<2	<2	<1	<1
Xylenes (total)	5		8.8 J	<10	<5	<5
cis-1,2-Dichloroethene	5		730 D	3.5 J	2.4 J	<5
trans-1,2-Dichloroethene	5		2.7 J	<10	<5	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-15 02/03/04 Shallow	MW-15 06/21/04 Shallow	MW-15 10/15/04 Shallow	MW-15 12/14/2007 Shallow
Acetone	50		<10	<10	<20	<10
Benzene	1		<5	<5	<10	<5
Bromodichloromethane	50		<5	<5	<10	<5
Bromoform	50		<5	<5	<10	<5
Bromomethane	5		<5	<5	<10	<5
Methyl Ethyl Ketone	50		<10	<10	<20	<10
Carbon Disulfide	60		<5	<5	<10	<5
Carbon Tetrachloride	5		<5	<5	<10	<5
Chlorobenzene	5		<5	<5	<10	<5
Chloroethane	5		<5	<5	<10	<5
Chloroform	7		<5	<5	<10	<5
Chloromethane	-		<5	<5	<10	<5
Dibromochloromethane	50		<5	<5	<10	<5
1,1-Dichloroethane	5		4 J	14	<10	<5
1,2-Dichloroethane	0.6		<5	<5	<10	<5
1,1-Dichloroethene	5		<5	<5	<10	<5
1,2-Dichloropropane	1		<5	<5	<10	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<10	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<10	<5
Ethylbenzene	5		<5	<5	<10	<5
2-Hexanone	50		<10	<10	<20	<10
Methylene Chloride	5		<5	<5	<10	<5
Methyl Isobutyl Ketone	-		<10	<10	<20	<10
Styrene	5		<5	<5	<10	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<10	<5
Tetrachloroethene	5		1700 D	1100 D	1200 D	<5
Toluene	5		<5	<5	<10	<5
1,1,1-Trichloroethane	5		16	10	<10	<5
1,1,2-Trichloroethane	1		<5	<5	<10	<5
Trichloroethene	5		32	13	19	<5
Vinyl Chloride	2		<1	<1	<2	<1
Xylenes (total)	5		<5	<5	<10	<5
cis-1,2-Dichloroethene	5		<5	<5	<10	<5
trans-1,2-Dichloroethene	5		<5	<5	<10	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-15	IW-22	IW-22	IW-22
		Sample Date:	12/24/2008	12/19/2006	6/21/2007	12/12/2007
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		2.2 J	40 B	10 J	<10
Benzene	1		<5	<10	<10	<5
Bromodichloromethane	50		<5	<10	<10	<5
Bromoform	50		<5	<10	<10	<5
Bromomethane	5		<5	<10	<10	<5
Methyl Ethyl Ketone	50		<10	55	<20	50
Carbon Disulfide	60		<5	<10	<10	<5
Carbon Tetrachloride	5		<5	<10	<10	<5
Chlorobenzene	5		<5	<10	<10	<5
Chloroethane	5		<5	8.6 J	<10	<5
Chloroform	7		<5	<10	<10	<5
Chloromethane	-		<5	<10	<10	<5
Dibromochloromethane	50		<5	<10	<10	<5
1,1-Dichloroethane	5		<5	40	15	<5
1,2-Dichloroethane	0.6		<5	<10	<10	<5
1,1-Dichloroethene	5		<5	18	43	5.9
1,2-Dichloropropane	1		<5	<10	<10	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<10	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<10	<5
Ethylbenzene	5		<5	<10	<10	<5
2-Hexanone	50		<10	<20	<20	<10
Methylene Chloride	5		<5	<10	<10	<5
Methyl Isobutyl Ketone	-		<10	<20	<20	<10
Styrene	5		<5 J	<10	<10	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<10	<5
Tetrachloroethene	5		<5	210	1100 D	990 D
Toluene	5		<5	11	6.8 J	4.1 J
1,1,1-Trichloroethane	5		<5	100	76	35
1,1,2-Trichloroethane	1		<5	<10	<10	<5
Trichloroethene	5		<5	64	350 D	110
Vinyl Chloride	2		<1	2.2	1.7 J	<1
Xylenes (total)	5		<5	13	10	6.8
cis-1,2-Dichloroethene	5		<5	7000 D	3700 D	1200 D
trans-1,2-Dichloroethene	5		<5	5.8 J	49	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	IW-22	IW-17	IW-17	IW-17
		Sample Date:	12/24/2008	9/28/2006	12/19/2006	3/29/2007
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		14	<24	<10 B	<20
Benzene	1		<5	<10	<5	<10
Bromodichloromethane	50		<5	<10	<5	<10
Bromoform	50		<5	<10	<5	<10
Bromomethane	5		<5	<10	<5	<10
Methyl Ethyl Ketone	50		**180**	27	6.5 J	36
Carbon Disulfide	60		<5	<10	<5	<10
Carbon Tetrachloride	5		<5	<10	<5	<10
Chlorobenzene	5		<5	<10	<5	<10
Chloroethane	5		<5	**6.2 J**	2.2 J	<10
Chloroform	7		<5	<10	<5	<10
Chloromethane	-		<5	<10	<5	<10
Dibromochloromethane	50		<5	<10	<5	<10
1,1-Dichloroethane	5		<5	**41**	**8.1**	**15**
1,2-Dichloroethane	0.6		<5	<10	<5	<10
1,1-Dichloroethene	5		<5	4.6 J	2.1 J	**58**
1,2-Dichloropropane	1		<5	<10	<5	<10
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<10
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<10
Ethylbenzene	5		<5	<10	<5	3.7 J
2-Hexanone	50		<10	<20	<10	<20
Methylene Chloride	5		<5 B	<10	<5	<10
Methyl Isobutyl Ketone	-		<10	<20	<10	<20
Styrene	5		<5	<10	<5	<10
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<10
Tetrachloroethene	5		<5	**50 B**	**39**	**3300 DB**
Toluene	5		**27**	1.6 J	0.76 J	**16**
1,1,1-Trichloroethane	5		<5	<10	1.1 J	**250**
1,1,2-Trichloroethane	1		<5	<10	<5	<10
Trichloroethene	5		1.5 J	**870 D**	**120**	**2100 D**
Vinyl Chloride	2		**15**	**6.6**	**38**	**8.2**
Xylenes (total)	5		<5	2.1 J	1.7 J	**31**
cis-1,2-Dichloroethene	5		**83**	**4200 D**	**1300 D**	**9400 D**
trans-1,2-Dichloroethene	5		<5	**210**	**38**	**24**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	IW-17 6/21/2007 Shallow	IW-17 9/25/2007 Shallow	IW-17 12/14/2007 Shallow	IW-17 12/24/2008 Shallow
Acetone	50		15 J	44 B	<16 B	27
Benzene	1		<10	<10	<5	<5
Bromodichloromethane	50		<10	<10	<5	<5
Bromoform	50		<10	<10	<5	<5
Bromomethane	5		<10	<10	<5	<5
Methyl Ethyl Ketone	50		38	77	86	190 DJ
Carbon Disulfide	60		<10	<10	<5	<5
Carbon Tetrachloride	5		<10	<10	<5	<5
Chlorobenzene	5		<10	<10	<5	<5
Chloroethane	5		<10	<10	<5	1.7 J
Chloroform	7		<10	<10	<5	<5
Chloromethane	-		<10	<10	<5	<5
Dibromochloromethane	50		<10	<10	<5	<5
1,1-Dichloroethane	5		<10	1.1 J	<5	4.4 J
1,2-Dichloroethane	0.6		<10	<10	<5	<5
1,1-Dichloroethene	5		<10	<10	<5	1.1 J
1,2-Dichloropropane	1		<10	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<5
Ethylbenzene	5		<10	<10	<5	<5
2-Hexanone	50		<20	<20	<10	2.4 J
Methylene Chloride	5		<10	<10	<5	<5
Methyl Isobutyl Ketone	-		<20	<20	<10	<10
Styrene	5		<10	<10	<5	<5 J
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<5
Tetrachloroethene	5		57	22	51	3.9 J
Toluene	5		<10	<10	0.57 J	1.2 J
1,1,1-Trichloroethane	5		<10	<10	<5	1.6 J
1,1,2-Trichloroethane	1		<10	<10	<5	<5
Trichloroethene	5		7.9 J	12	13	1.8 J
Vinyl Chloride	2		95	19	15	54
Xylenes (total)	5		3.1 J	2.9 J	1.7 J	2.9 J
cis-1,2-Dichloroethene	5		760 D	530 D	400 D	360 DJ
trans-1,2-Dichloroethene	5		2.3 J	0.77 J	<5	1.3 J

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	IW-2	IW-2	MW-13	MW-13
		Sample Date:	12/19/2006	12/12/2007	06/19/03	10/15/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<10 B	<10	18 J	9.9 J
Benzene	1		<5	<5	<10	<10
Bromodichloromethane	50		<5	<5	<10	<10
Bromoform	50		<5	<5	<10	<10
Bromomethane	5		<5	<5	<10	<10
Methyl Ethyl Ketone	50		3.5 J	<10	<20	<20
Carbon Disulfide	60		<5	<5	<10	<10
Carbon Tetrachloride	5		<5	<5	<10	21
Chlorobenzene	5		<5	<5	<10	<10
Chloroethane	5		<5	<5	<10	<10
Chloroform	7		<5	<5	1 J	<10
Chloromethane	-		<5	<5	<10	<10
Dibromochloromethane	50		<5	<5	<10	<10
1,1-Dichloroethane	5		<5	<5	<10	<10
1,2-Dichloroethane	0.6		<5	<5	<10	<10
1,1-Dichloroethene	5		<5	<5	6 J	4.5 J
1,2-Dichloropropane	1		<5	<5	<10	<10
cis-1,3-Dichloropropene	0.4		<5	<5	<10	<10
trans-1,3-Dichloropropene	0.4		<5	<5	<10	<10
Ethylbenzene	5		<5	<5	14	6.5 J
2-Hexanone	50		<10	<10	<20	<20
Methylene Chloride	5		<5	<5	<10	<10
Methyl Isobutyl Ketone	-		<10	<10	<20	<20
Styrene	5		<5	<5	<10	<10
1,1,2,2-Tetrachloroethane	5		<5	<5	<10	<10
Tetrachloroethene	5		5.5	0.91 J	38000 D	23000 D
Toluene	5		<5	<5	19	5.5 J
1,1,1-Trichloroethane	5		<5	<5	520 EJ	130
1,1,2-Trichloroethane	1		<5	<5	<10	<10
Trichloroethene	5		<5	<5	10000 D	10000 D
Vinyl Chloride	2		<1	3.3	<2	<2
Xylenes (total)	5		<5	<5	210	84
cis-1,2-Dichloroethene	5		60	45	3400 D	8000 D
trans-1,2-Dichloroethene	5		<5	<5	37	130

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-13	MW-13	MW-13	MW-13
		Sample Date:	05/03/05	12/19/2006	3/29/2007	6/21/2007
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<20	<20	<20	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		<20	<20	<20	<20
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	<10	<10
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		2.6 J	6.5 J	25	2.4 J
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		1.8 J	25	140	13
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		4.4 J	<10	3.4 J	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		7800 DB	990 DJ	180	1400 D
Toluene	5		3.3 J	1.7 J	5.1 J	0.60 J
1,1,1-Trichloroethane	5		32 J	39	65	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		3500 D	1900 DJ	1300 DJ	4700 D
Vinyl Chloride	2		<2	1700 D	4100 D	1800 D
Xylenes (total)	5		54	25	38	17
cis-1,2-Dichloroethene	5		7200 D	24000 D	40000 D	9200 D
trans-1,2-Dichloroethene	5		35 J	150	150	92

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-13 9/25/2007 Shallow	MW-13 12/12/2007 Shallow	MW-13 12/24/2008 Shallow	MW-14 12/19/2006 Shallow
Acetone	50		<20	<10	9.3 J	<10 B
Benzene	1		<10	<5	<5	<5
Bromodichloromethane	50		<10	<5	<5	<5
Bromoform	50		<10	<5	<5	<5
Bromomethane	5		<10	<5	<5	<5
Methyl Ethyl Ketone	50		62	<10	96	2.3 J
Carbon Disulfide	60		<10	<5	5.8	<5
Carbon Tetrachloride	5		<10	<5	<5	<5
Chlorobenzene	5		<10	<5	<5	<5
Chloroethane	5		<10	<5	<5	<5
Chloroform	7		<10	<5	<5	<5
Chloromethane	-		<10	<5	<5	<5
Dibromochloromethane	50		<10	<5	<5	<5
1,1-Dichloroethane	5		34	<5	28	<5
1,2-Dichloroethane	0.6		<10	<5	<5	<5
1,1-Dichloroethene	5		58	<5	47	<5
1,2-Dichloropropane	1		<10	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<5	<5	<5
Ethylbenzene	5		6.2 J	<5	1.8 J	<5
2-Hexanone	50		<20	<10	<10	<10
Methylene Chloride	5		<10	<5	<5 B	<5 B
Methyl Isobutyl Ketone	-		<20	<10	<10	<10
Styrene	5		<10	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<5	<5	<5
Tetrachloroethene	5		3500 D	24 J	140	<5
Toluene	5		8.7 J	<5	3.7 J	<5
1,1,1-Trichloroethane	5		160	<5	95	<5
1,1,2-Trichloroethane	1		<10	<5	<5	<5
Trichloroethene	5		17000 DJ	38 J	560 DJ	<5
Vinyl Chloride	2		1200 D	79	450 DJ	<1
Xylenes (total)	5		74	5.9 J	18	<5
cis-1,2-Dichloroethene	5		44000 D	200	30000 DJ	<5
trans-1,2-Dichloroethene	5		410 EJ	3 J	200	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-14	MW-14	MW-2	MW-32
		Sample Date:	12/12/2007	12/24/2008	12/12/2007	06/26/03
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<10	<10	<10	<20
Benzene	1		<5	<5	<5	<10
Bromodichloromethane	50		<5	<5	<5	<10
Bromoform	50		<5	<5	<5	<10
Bromomethane	5		<5	<5	<5	<10
Methyl Ethyl Ketone	50		<10	<10	<10	<20
Carbon Disulfide	60		<5	<5	<5	<10
Carbon Tetrachloride	5		<5	<5	<5	<10
Chlorobenzene	5		<5	<5	<5	<10
Chloroethane	5		<5	<5	<5	<10
Chloroform	7		<5	<5	<5	<10
Chloromethane	-		<5	<5	<5	<10
Dibromochloromethane	50		<5	<5	<5	<10
1,1-Dichloroethane	5		<5	<5	<5	<10
1,2-Dichloroethane	0.6		<5	<5	<5	<10
1,1-Dichloroethene	5		<5	<5	<5	<10
1,2-Dichloropropane	1		<5	<5	<5	<10
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<10
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<10
Ethylbenzene	5		<5	<5	<5	<10
2-Hexanone	50		<10	<10	<10	<20
Methylene Chloride	5		<5	<5	<5	<10
Methyl Isobutyl Ketone	-		<10	<10	<10	<20
Styrene	5		<5	<5 J	<5	<10
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<10
Tetrachloroethene	5		<5	<5	<5	**1100 D**
Toluene	5		<5	<5	<5	<10
1,1,1-Trichloroethane	5		<5	<5	<5	<10
1,1,2-Trichloroethane	1		<5	<5	<5	<10
Trichloroethene	5		0.75 J	<5	<5	**470 D**
Vinyl Chloride	2		<1	<1	<1	<2
Xylenes (total)	5		<5	<5	<5	<10
cis-1,2-Dichloroethene	5		<5	<5	**7.5**	**170**
trans-1,2-Dichloroethene	5		<5	<5	<5	<10

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-32	MW-32	MW-32	MW-32
		Sample Date:	10/08/03	12/05/03	02/05/04	04/02/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<1000	**140**	33	**120**
Benzene	1		<500	<5	<5	<10
Bromodichloromethane	50		<500	<5	<5	<10
Bromoform	50		<500	<5	<5	<10
Bromomethane	5		<500	<5	<5	<10
Methyl Ethyl Ketone	50		<1000	17	**150**	**200**
Carbon Disulfide	60		<500	<5	<5	6 J
Carbon Tetrachloride	5		<500	<5	<5	<10
Chlorobenzene	5		<500	<5	<5	<10
Chloroethane	5		<500	<5	<5	<10
Chloroform	7		<500	<5	<5	<10
Chloromethane	-		<500	<5	<5	<10
Dibromochloromethane	50		<500	<5	<5	<10
1,1-Dichloroethane	5		<500	5	**7**	**15**
1,2-Dichloroethane	0.6		<500	<5	<5	<10
1,1-Dichloroethene	5		<500	<5	<5	**14**
1,2-Dichloropropane	1		<500	<5	<5	<10
cis-1,3-Dichloropropene	0.4		<500	<5	<5	<10
trans-1,3-Dichloropropene	0.4		<500	<5	<5	<10
Ethylbenzene	5		<500	**9**	4 J	4 J
2-Hexanone	50		<1000	<10	<10	<20
Methylene Chloride	5		<500	<5	<5	<10
Methyl Isobutyl Ketone	-		<1000	<10	<10	<20
Styrene	5		<500	<5	<5	<10
1,1,2,2-Tetrachloroethane	5		<500	<5	<5	<10
Tetrachloroethene	5		**8000**	**950 D**	**270 DJ**	**69**
Toluene	5		<500	3 J	1 J	3 J
1,1,1-Trichloroethane	5		<500	**83**	**41**	**81**
1,1,2-Trichloroethane	1		<500	<5	<5	<10
Trichloroethene	5		**6900**	**2500 D**	**2500 D**	**85**
Vinyl Chloride	2		<100	<1	<1	<2
Xylenes (total)	5		<500	**70**	**37**	**32**
cis-1,2-Dichloroethene	5		**2300**	**11000 D**	**16000 D**	**22000 D**
trans-1,2-Dichloroethene	5		<500	**140**	**180**	**350**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-32 08/05/04 Shallow	MW-32 10/15/04 Shallow	MW-32 02/17/05 Shallow	MW-32 6/16/2006 Shallow
Acetone	50		82	110	100	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		1800 EJ	3700 D	820 D	18 J
Carbon Disulfide	60		57	<10	<10	<10
Carbon Tetrachloride	5		<10	1.5 J	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	2 J	<10
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		13	<10	<10	6.9 J
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		5 J	1.8 J	<10	2.5 J
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		3 J	1.9 J	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		25	86	6.4 J	1.6 J
Toluene	5		1 J	<10	<10	<10
1,1,1-Trichloroethane	5		46	15	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		220	64	7.4 J	32
Vinyl Chloride	2		<2	<2	4.6	57
Xylenes (total)	5		20	13	3.9 J	2.9 J
cis-1,2-Dichloroethene	5		12000 D	3400 D	1700 D	4400 D
trans-1,2-Dichloroethene	5		180	55	23	40

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-32 9/29/2006 Shallow	MW-32 12/19/2006 Shallow	MW-32 3/30/2007 Shallow	MW-32 6/21/2007 Shallow
Acetone	50		<20	<20	<20	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		130 J	<20	29	<20
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	<10	<10
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		19	4.6 J	9.8 J	<10
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		12	4.2 J	5.3 J	<10
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10 J	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		330 BJ	34	20	<10
Toluene	5		1.6 J	<10	1.6 J	<10
1,1,1-Trichloroethane	5		<10	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		100	130	57	1.6 J
Vinyl Chloride	2		46	84	100	27
Xylenes (total)	5		16	8.0 J	9.8 J	<10
cis-1,2-Dichloroethene	5		20000 D	4400 D	1900 D	160
trans-1,2-Dichloroethene	5		160	29	17	<10

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-32	MW-8	MW-8	MW-8
		Sample Date:	12/14/2007	06/26/03	12/04/03	02/05/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		13	<20	24	19
Benzene	1		<5	<10	<5	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
Methyl Ethyl Ketone	50		200 D	<20	120	130
Carbon Disulfide	60		<5	<10	<5	0.5 J
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		<5	<10	<5	<5
Chloroform	7		<5	<10	<5	<5
Chloromethane	-		<5	<10	<5	<5
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		<5	<10	6	21
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		<5	<10	<5	45
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	<5	11
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5	<5
Methyl Isobutyl Ketone	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		8.3	3100 D	37	96
Toluene	5		<5	<10	<5	8
1,1,1-Trichloroethane	5		<5	<10	7	230 EJ
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		12	220	61	2500 D
Vinyl Chloride	2		59	<2	<1	2
Xylenes (total)	5		2.5 J	<10	3 J	100
cis-1,2-Dichloroethene	5		910 D	25	5100 D	31000 D
trans-1,2-Dichloroethene	5		3.9 J	<10	43	280 DJ

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-7 06/26/03 Shallow	MW-7 12/04/03 Shallow	MW-7 02/04/04 Shallow	MW-7 04/02/04 Shallow
Acetone	50		<20	78	43	65
Benzene	1		<10	<5	<5	<10
Bromodichloromethane	50		<10	<5	<5	<10
Bromoform	50		<10	<5	<5	<10
Bromomethane	5		<10	<5	<5	<10
Methyl Ethyl Ketone	50		<20	160	180	400
Carbon Disulfide	60		<10	<5	<5	<10
Carbon Tetrachloride	5		<10	<5	<5	<10
Chlorobenzene	5		<10	<5	<5	<10
Chloroethane	5		<10	<5	<5	<10
Chloroform	7		<10	<5	<5	<10
Chloromethane	-		<10	<5	<5	<10
Dibromochloromethane	50		<10	<5	<5	<10
1,1-Dichloroethane	5		<10	4 J	10	21
1,2-Dichloroethane	0.6		<10	<5	<5	<10
1,1-Dichloroethene	5		<10	<5	1 J	9 J
1,2-Dichloropropane	1		<10	<5	<5	<10
cis-1,3-Dichloropropene	0.4		<10	<5	<5	<10
trans-1,3-Dichloropropene	0.4		<10	<5	<5	<10
Ethylbenzene	5		0.8 J	<5	<5	4 J
2-Hexanone	50		<20	<10	<10	<20
Methylene Chloride	5		<10	<5	<5	<10
Methyl Isobutyl Ketone	-		<20	<10	<10	<20
Styrene	5		<10	<5	<5	<10
1,1,2,2-Tetrachloroethane	5		<10	<5	<5	<10
Tetrachloroethene	5		10000 D	56	35	17
Toluene	5		<10	<5	<5	3 J
1,1,1-Trichloroethane	5		77	<5	<5	77
1,1,2-Trichloroethane	1		<10	<5	<5	<10
Trichloroethene	5		1400 D	31	10	18
Vinyl Chloride	2		<2	<1	<1	3
Xylenes (total)	5		9 J	<5	<5	30
cis-1,2-Dichloroethene	5		360	780 D	1700 D	12000 D
trans-1,2-Dichloroethene	5		5 J	6	19	170

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: MW-7 Sample Date: 08/09/04 Zone: Shallow	MW-7 10/15/04 Shallow	MW-7 02/17/05 Shallow	MW-7 03/04/05 Shallow
Acetone	50	76	38	120	<20
Benzene	1	<10	<10	<10	<10
Bromodichloromethane	50	<10	<10	<10	<10
Bromoform	50	<10	<10	<10	<10
Bromomethane	5	<10	<10	<10	<10
Methyl Ethyl Ketone	50	580 D	370	1400 D	140
Carbon Disulfide	60	<10	<10	<10	<10
Carbon Tetrachloride	5	<10	<10	<10	<10
Chlorobenzene	5	<10	<10	<10	<10
Chloroethane	5	10 J	5.3 J	10	15
Chloroform	7	<10	<10	<10	<10
Chloromethane	-	<10	<10	<10	<10
Dibromochloromethane	50	<10	<10	<10	<10
1,1-Dichloroethane	5	7 J	<10	<10	<10
1,2-Dichloroethane	0.6	<10	<10	<10	<10
1,1-Dichloroethene	5	3 J	<10	<10	1.7 J
1,2-Dichloropropane	1	<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4	<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4	<10	<10	<10	<10
Ethylbenzene	5	<10	<10	<10	<10
2-Hexanone	50	<20	<20	<20	<20
Methylene Chloride	5	<10	<10	<10	<10
Methyl Isobutyl Ketone	-	<20	<20	<20	<20
Styrene	5	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5	<10	<10	<10	<10
Tetrachloroethene	5	26	28	9.1 J	<10
Toluene	5	<10	<10	<10	0.78 J
1,1,1-Trichloroethane	5	<10	<10	<10	<10
1,1,2-Trichloroethane	1	<10	<10	<10	<10
Trichloroethene	5	14	14	<10	<10
Vinyl Chloride	2	3	<2	3.2	3
Xylenes (total)	5	<10	<10	2.9 J	6.6 J
cis-1,2-Dichloroethene	5	3200 D	1000 D	6300 D	8300 D
trans-1,2-Dichloroethene	5	39	15	65	77

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-7	MW-7	MW-7	MW-7
		Sample Date:	3/30/2006	6/16/2006	9/28/2006	12/19/2006
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		4.2 J	<10	<10	<10 B
Benzene	1		<10	<5	<5	<5
Bromodichloromethane	50		<10	<5	<5	<5
Bromoform	50		<10	<5	<5	<5
Bromomethane	5		<10	<5	<5	<5
Methyl Ethyl Ketone	50		18 J	3.6 J	<10	11
Carbon Disulfide	60		<10	<5	<5	<5
Carbon Tetrachloride	5		<10	<5	<5	<5
Chlorobenzene	5		<10	<5	<5	<5
Chloroethane	5		<10	<5	<5	<5
Chloroform	7		<10	<5	<5	<5
Chloromethane	-		<10	<5	<5	<5
Dibromochloromethane	50		<10	<5	<5	<5
1,1-Dichloroethane	5		<10	1.3 J	<5	<5
1,2-Dichloroethane	0.6		<10	<5	<5	<5
1,1-Dichloroethene	5		<10	<5	<5	<5
1,2-Dichloropropane	1		<10	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<5	<5	<5
Ethylbenzene	5		<10	<5	<5	<5
2-Hexanone	50		<20	<10	<10	<10
Methylene Chloride	5		<10	<5	<5	<5
Methyl Isobutyl Ketone	-		<20	<10	<10	<10
Styrene	5		<10	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<5	<5	<5
Tetrachloroethene	5		<10	<5	<5	<5
Toluene	5		<10	<5	<5	<5
1,1,1-Trichloroethane	5		<10	<5	<5	<5
1,1,2-Trichloroethane	1		<10	<5	<5	<5
Trichloroethene	5		<10	<5	<5	<5
Vinyl Chloride	2		**60**	1.7	**3.4**	**120**
Xylenes (total)	5		<10	<5	<5	<5
cis-1,2-Dichloroethene	5		**1300 D**	**6.4**	2.3 J	**450 D**
trans-1,2-Dichloroethene	5		**19**	3.8 J	2.9 J	**9.8**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-7 6/21/2007 Shallow	MW-7 12/14/2007 Shallow	MW-7 3/24/2008 Shallow	MW-7 6/25/2008 Shallow
Acetone	50		<20	12 J	<11 B	<10
Benzene	1		<10	<10	<5	<5
Bromodichloromethane	50		<10	<10	<5	<5
Bromoform	50		<10	<10	<5	<5
Bromomethane	5		<10	<10	<5	<5
Methyl Ethyl Ketone	50		<20	**170**	**120**	<10
Carbon Disulfide	60		<10	<10	<5	<5
Carbon Tetrachloride	5		<10	<10	<5	<5
Chlorobenzene	5		<10	<10	<5	<5
Chloroethane	5		<10	<10	<5	<5
Chloroform	7		<10	<10	<5	<5
Chloromethane	-		<10	<10	<5	<5
Dibromochloromethane	50		<10	<10	<5	<5
1,1-Dichloroethane	5		<10	<10	**13**	3.4 J
1,2-Dichloroethane	0.6		<10	<10	<5	<5
1,1-Dichloroethene	5		<10	**12**	**17**	**8.4**
1,2-Dichloropropane	1		<10	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<5
Ethylbenzene	5		<10	<10	1.1 J	<5
2-Hexanone	50		<20	<20	1.5 J	<10
Methylene Chloride	5		<10	<10	<5	<5
Methyl Isobutyl Ketone	-		<20	<20	<10	<10
Styrene	5		<10	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<5
Tetrachloroethene	5		**26**	<10	<5	<5
Toluene	5		<10	<10	1.8 J	0.49 J
1,1,1-Trichloroethane	5		<10	<10	<5	<5
1,1,2-Trichloroethane	1		<10	<10	<5	<5
Trichloroethene	5		2.6 J	**6.4 J**	**5.8**	2.4 J
Vinyl Chloride	2		**140**	**840 D**	**930 D**	**260 D**
Xylenes (total)	5		<10	**7.6 J**	**9.5**	0.64 J
cis-1,2-Dichloroethene	5		**870 D**	**5800 D**	**8600 D**	**3500 D**
trans-1,2-Dichloroethene	5		**5.6 J**	**39**	**22**	**14**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-7	MW-9	MW-9	MW-9
		Sample Date:	12/24/2008	06/20/03	10/12/04	12/19/2006
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		8.7 J	<10	<20	<10 B
Benzene	1		<5	<5	<10	<5
Bromodichloromethane	50		<5	<5	<10	<5
Bromoform	50		<5	<5	<10	<5
Bromomethane	5		<5	<5	<10	<5
Methyl Ethyl Ketone	50		**54**	<10	<20	29
Carbon Disulfide	60		<5	<5	<10	<5
Carbon Tetrachloride	5		<5	<5	<10	<5
Chlorobenzene	5		<5	<5	<10	<5
Chloroethane	5		<5	<5	<10	<5
Chloroform	7		<5	<5	<10	<5
Chloromethane	-		<5	<5	<10	<5
Dibromochloromethane	50		<5	<5	<10	<5
1,1-Dichloroethane	5		**27**	<5	<10	1.9 J
1,2-Dichloroethane	0.6		<5	<5	<10	<5
1,1-Dichloroethene	5		**180**	<5	<10	<5
1,2-Dichloropropane	1		<5	<5	<10	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<10	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<10	<5
Ethylbenzene	5		2.2 J	<5	<10	<5
2-Hexanone	50		<10	<10	<20	<10
Methylene Chloride	5		<5 B	<5	<10	<5
Methyl Isobutyl Ketone	-		<10	<10	<20	<10
Styrene	5		<5	<5	<10	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<10	<5
Tetrachloroethene	5		<5	**130**	**180**	<5
Toluene	5		4.9 J	<5	<10	<5
1,1,1-Trichloroethane	5		2.1 J	<5	<10	<5
1,1,2-Trichloroethane	1		<5	<5	<10	<5
Trichloroethene	5		3 J	**47**	**20**	<5
Vinyl Chloride	2		**7700 DJ**	<1	<2	**89**
Xylenes (total)	5		**16**	<5	<10	<5
cis-1,2-Dichloroethene	5		**64000 DJ**	**6**	2.1 J	**58**
trans-1,2-Dichloroethene	5		**270 EJ**	<5	<10	**24**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-11	MW-11	MW-11	MW-11
		Sample Date:	06/23/03	12/05/03	02/04/04	10/14/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<20	120	170	310
Benzene	1		<10	<5	<5	<10
Bromodichloromethane	50		<10	<5	<5	<10
Bromoform	50		<10	<5	<5	<10
Bromomethane	5		<10	<5	<5	<10
Methyl Ethyl Ketone	50		<20	59	190	2900 D
Carbon Disulfide	60		<10	<5	<5	<10
Carbon Tetrachloride	5		<10	<5	<5	<10
Chlorobenzene	5		<10	<5	<5	<10
Chloroethane	5		<10	<5	<5	<10
Chloroform	7		<10	<5	<5	<10
Chloromethane	-		<10	<5	<5	<10
Dibromochloromethane	50		<10	<5	<5	<10
1,1-Dichloroethane	5		<10	8	13	<10
1,2-Dichloroethane	0.6		<10	<5	<5	<10
1,1-Dichloroethene	5		3 J	13	10	<10
1,2-Dichloropropane	1		<10	<5	<5	<10
cis-1,3-Dichloropropene	0.4		<10	<5	<5	<10
trans-1,3-Dichloropropene	0.4		<10	<5	<5	<10
Ethylbenzene	5		<10	0.6 J	0.6 J	<10
2-Hexanone	50		<20	<10	<10	<20
Methylene Chloride	5		<10	<5	<5	<10
Methyl Isobutyl Ketone	-		<20	<10	<10	<20
Styrene	5		<10	<5	<5	<10
1,1,2,2-Tetrachloroethane	5		<10	<5	<5	<10
Tetrachloroethene	5		5600 D	1800 D	68	17
Toluene	5		<10	0.6 J	0.6 J	<10
1,1,1-Trichloroethane	5		97	55	28	<10
1,1,2-Trichloroethane	1		<10	<5	<5	<10
Trichloroethene	5		2500 D	1800 D	36	4.1 J
Vinyl Chloride	2		<2	<1	<1	<2
Xylenes (total)	5		<10	5	9	4 J
cis-1,2-Dichloroethene	5		2600 D	8600 D	8700 D	2800 D
trans-1,2-Dichloroethene	5		28	37	60	42

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-11	MW-10	MW-10	MW-10
		Sample Date:	12/14/2007	06/23/03	12/05/03	02/03/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		13	<20	**160**	**53**
Benzene	1		<5	<10	<5	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
Methyl Ethyl Ketone	50		**360 DJ**	<20	**66**	**240 DJ**
Carbon Disulfide	60		<5	<10	<5	<5
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		<5	<10	<5	<5
Chloroform	7		<5	<10	<5	<5
Chloromethane	-		<5	<10	<5	<5
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		<5	<10	4 J	**7**
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		<5	<10	2 J	1 J
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	<5	<5
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5	<5
Methyl Isobutyl Ketone	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		<5	**4200 D**	**150**	**56**
Toluene	5		0.37 J	<10	<5	<5
1,1,1-Trichloroethane	5		<5	**18**	**8**	<5
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		<5	**1600 D**	**300 D**	**18**
Vinyl Chloride	2		**8.2**	<2	<1	<1
Xylenes (total)	5		<5	<10	<5	2 J
cis-1,2-Dichloroethene	5		**24**	**300**	**1900 D**	**2300 D**
trans-1,2-Dichloroethene	5		2 J	4 J	**18**	**23**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-10 06/21/04 Shallow	MW-3 06/16/03 Shallow	MW-3 10/12/04 Shallow	MW-3 6/16/2006 Shallow
Acetone	50		150	<10	<20	<20
Benzene	1		<10	<5	<10	<10
Bromodichloromethane	50		<10	<5	<10	<10
Bromoform	50		<10	<5	<10	<10
Bromomethane	5		<10	<5	<10	<10
Methyl Ethyl Ketone	50		850 D	<10	<20	8.9 J
Carbon Disulfide	60		<10	<5	<10	<10
Carbon Tetrachloride	5		<10	<5	<10	<10
Chlorobenzene	5		<10	<5	<10	<10
Chloroethane	5		8 J	<5	<10	<10
Chloroform	7		<10	<5	<10	<10
Chloromethane	-		<10	<5	<10	<10
Dibromochloromethane	50		<10	<5	<10	<10
1,1-Dichloroethane	5		7 J	<5	<10	<10
1,2-Dichloroethane	0.6		<10	<5	<10	<10
1,1-Dichloroethene	5		<10	<5	<10	<10
1,2-Dichloropropane	1		<10	<5	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<5	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<5	<10	<10
Ethylbenzene	5		<10	<5	<10	<10
2-Hexanone	50		<20	<10	<20	<20
Methylene Chloride	5		<10	<5	<10	<10
Methyl Isobutyl Ketone	-		<20	<10	<20	<20
Styrene	5		<10	<5	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<5	<10	<10
Tetrachloroethene	5		28	47	200	<10
Toluene	5		<10	<5	<10	<10
1,1,1-Trichloroethane	5		<10	0.8 J	<10	<10
1,1,2-Trichloroethane	1		<10	<5	<10	<10
Trichloroethene	5		13	15	9.3 J	<10
Vinyl Chloride	2		<2	<1	<2	<2
Xylenes (total)	5		2 J	<5	<10	<10
cis-1,2-Dichloroethene	5		1800 D	0.6 J	<10	500 D
trans-1,2-Dichloroethene	5		26	<5	<10	3.9 J

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-3	MW-3	MW-3	MW-29
		Sample Date:	12/20/2006	12/12/2007	12/24/2008	06/23/03
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<10 B	<10	<10	<20
Benzene	1		<5	<5	<5	<10
Bromodichloromethane	50		<5	<5	<5	<10
Bromoform	50		<5	<5	<5	<10
Bromomethane	5		<5	<5	<5	<10
Methyl Ethyl Ketone	50		2.4 J	<10	<10	<20
Carbon Disulfide	60		<5	<5	<5	<10
Carbon Tetrachloride	5		<5	<5	<5	<10
Chlorobenzene	5		<5	<5	<5	<10
Chloroethane	5		<5	<5	<5	<10
Chloroform	7		<5	<5	<5	<10
Chloromethane	-		<5	<5	<5	<10
Dibromochloromethane	50		<5	<5	<5	<10
1,1-Dichloroethane	5		<5	<5	<5	<10
1,2-Dichloroethane	0.6		<5	<5	<5	<10
1,1-Dichloroethene	5		<5	<5	<5	<10
1,2-Dichloropropane	1		<5	<5	<5	<10
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<10
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<10
Ethylbenzene	5		<5	<5	<5	<10
2-Hexanone	50		<10	<10	<10	<20
Methylene Chloride	5		<5	<5	<5	<10
Methyl Isobutyl Ketone	-		<10	<10	<10	<20
Styrene	5		<5	<5	<5 J	<10
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<10
Tetrachloroethene	5		<5	<5	<5	3500 D
Toluene	5		<5	<5	<5	<10
1,1,1-Trichloroethane	5		<5	<5	<5	40
1,1,2-Trichloroethane	1		<5	<5	<5	<10
Trichloroethene	5		<5	<5	<5	990 D
Vinyl Chloride	2		1.8	<1	<1	<2
Xylenes (total)	5		<5	<5	<5	<10
cis-1,2-Dichloroethene	5		0.82 J	<5	<5	400
trans-1,2-Dichloroethene	5		1.5 J	0.93 J	1.2 J	5 J

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-29	MW-29	MW-29	MW-29
		Sample Date:	02/03/04	04/01/04	06/18/04	08/09/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		54	91	230	220
Benzene	1		<5	<10	<4	<10
Bromodichloromethane	50		<5	<10	<4	<10
Bromoform	50		<5	<10	<4	<10
Bromomethane	5		<5	<10	<4	<10
Methyl Ethyl Ketone	50		130	470 DJ	1400 DJ	1300 D
Carbon Disulfide	60		<5	<10	<4	<10
Carbon Tetrachloride	5		<5	<10	<4	<10
Chlorobenzene	5		<5	<10	<4	<10
Chloroethane	5		<5	<10	<4	<10
Chloroform	7		<5	<10	<4	<10
Chloromethane	-		<5	<10	<4	<10
Dibromochloromethane	50		<5	<10	<4	<10
1,1-Dichloroethane	5		14	17	14	12
1,2-Dichloroethane	0.6		<5	<10	<4	<10
1,1-Dichloroethene	5		11	12	5	4 J
1,2-Dichloropropane	1		<5	<10	<4	<10
cis-1,3-Dichloropropene	0.4		<5	<10	<4	<10
trans-1,3-Dichloropropene	0.4		<5	<10	<4	<10
Ethylbenzene	5		4 J	2 J	<4	<10
2-Hexanone	50		<10	<20	<8	<20
Methylene Chloride	5		<5	<10	<4	<10
Methyl Isobutyl Ketone	-		<10	<20	<8	<20
Styrene	5		<5	<10	<4	<10
1,1,2,2-Tetrachloroethane	5		<5	<10	<4	<10
Tetrachloroethene	5		20	15	9	16
Toluene	5		2 J	1 J	<4	<10
1,1,1-Trichloroethane	5		41	25	10	<10
1,1,2-Trichloroethane	1		<5	<10	<4	<10
Trichloroethene	5		14	7 J	4	6 J
Vinyl Chloride	2		<1	2 J	<0.8	<2
Xylenes (total)	5		32	18	7	<10
cis-1,2-Dichloroethene	5		12000 D	7300 D	4100 DJ	3000 D
trans-1,2-Dichloroethene	5		94	84	70	39

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-29	MW-29	MW-29	MW-29
		Sample Date:	10/13/04	12/02/04	02/16/05	06/07/05
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		180	150	230	190
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		1400 D	1400 D	2500 D	1400 D
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	3.4 J	5.2 J	5.6 J
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		20	6.4 J	<10	<10
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		<10	<10	<10	<10
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		1.2 J	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	< 10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		26	39	20	<10
Toluene	5		<10	<10	<10	<10
1,1,1-Trichloroethane	5		<10	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		11	9.3 J	5.5 J	<10
Vinyl Chloride	2		<2	1.6 J	20	48
Xylenes (total)	5		12	4.3 J	<10	<10
cis-1,2-Dichloroethene	5		8500 D	2500 D	1500 D	530 D
trans-1,2-Dichloroethene	5		140	28	15	13

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-29	MW-29	MW-29	MW-29
		Sample Date:	6/16/2006	12/20/2006	3/29/2007	6/21/2007
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		<10	<20	<10	6.9 J
Benzene	1		<5	<10	<5	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
Methyl Ethyl Ketone	50		6.8 J	49	45	37
Carbon Disulfide	60		<5	<10	<5	<5
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		<5	6.7 J	11	5.2
Chloroform	7		<5	<10	<5	<5
Chloromethane	-		<5	<10	<5	<5
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		<5	2.2 J	5.8	1.7 J
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		<5	<10	<5	<5
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	1.2 J	<5
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5	<5
Methyl Isobutyl Ketone	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		<5	13	<5	<5
Toluene	5		<5	<10	1.1 J	1.7 J
1,1,1-Trichloroethane	5		<5	<10	<5	<5
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		<5	<10	<5	<5
Vinyl Chloride	2		96	760 D	570 D	1
Xylenes (total)	5		<5	5.4 J	11	4.3 J
cis-1,2-Dichloroethene	5		94	6000 D	450 D	2.2 J
trans-1,2-Dichloroethene	5		2.8 J	81	76	20

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-29 9/25/2007 Shallow	MW-29 12/12/2007 Shallow	MW-31 06/24/03 Shallow	MW-31 03/12/04 Shallow
Acetone	50		<10	8.9 JB	<10	40
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
Methyl Ethyl Ketone	50		45	**61**	<10	**110**
Carbon Disulfide	60		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		2.6 J	<5	<5	<5
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		1.3 J	<5	3 J	**8**
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	1 J	**7**
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	<5	<5	0.6 J
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
Methyl Isobutyl Ketone	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	**3600 D**	**280 D**
Toluene	5		**11**	**200**	0.8 J	0.6 J
1,1,1-Trichloroethane	5		<5	<5	**37**	**16**
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	<5	**1100 D**	**110**
Vinyl Chloride	2		<1	**5.7**	<1	<1
Xylenes (total)	5		2.7 J	1.7 J	<5	**6**
cis-1,2-Dichloroethene	5		0.90 J	**19**	**420 D**	**5000 D**
trans-1,2-Dichloroethene	5		**6.9**	**5 J**	**9**	**34**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-31	MW-31	MW-31	MW-31
		Sample Date:	04/01/04	05/05/04	06/18/04	07/15/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		74	69	190	270
Benzene	1		<10	<10	<4	<10
Bromodichloromethane	50		<10	<10	<4	<10
Bromoform	50		<10	<10	<4	<10
Bromomethane	5		<10	<10	<4	<10
Methyl Ethyl Ketone	50		230	250	840 EJ	1400 EJ
Carbon Disulfide	60		<10	<10	<4	<10
Carbon Tetrachloride	5		<10	<10	<4	<10
Chlorobenzene	5		<10	<10	<4	<10
Chloroethane	5		<10	<10	<4	<10
Chloroform	7		<10	<10	<4	<10
Chloromethane	-		<10	<10	<4	<10
Dibromochloromethane	50		<10	<10	<4	<10
1,1-Dichloroethane	5		12	8 J	15	15
1,2-Dichloroethane	0.6		<10	<10	<4	<10
1,1-Dichloroethene	5		8 J	4 J	7	7 J
1,2-Dichloropropane	1		<10	<10	<4	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<4	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<4	<10
Ethylbenzene	5		<10	<10	<4	<10
2-Hexanone	50		<20	<20	<8	<20
Methylene Chloride	5		<10	<10	<4	<10
Methyl Isobutyl Ketone	-		<20	<20	<8	<20
Styrene	5		<10	<10	<4	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<4	<10
Tetrachloroethene	5		90	65	31	15
Toluene	5		<10	<10	<4	<10
1,1,1-Trichloroethane	5		15	9 J	17	20
1,1,2-Trichloroethane	1		<10	<10	<4	<10
Trichloroethene	5		48	31	12	8 J
Vinyl Chloride	2		<2	<2	<0.8	<2
Xylenes (total)	5		6 J	2 J	3 J	<10
cis-1,2-Dichloroethene	5		5000 D	3600 D	5100 D	4800 D
trans-1,2-Dichloroethene	5		46	26	43	56

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-31 08/09/04 Shallow	MW-31 10/13/04 Shallow	MW-31 12/02/04 Shallow	MW-31 01/18/05 Shallow
Acetone	50		270	280	250	280
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		830 D	1600 D	1800 D	2800 D
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	2.8 J	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	<10	<10
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		17	20	11	14
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		10	8.4 J	2.4 J	3.5 J
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10	1.9 J	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		17	9.2 J	14	5.1 J
Toluene	5		2 J	<10	<10	<10
1,1,1-Trichloroethane	5		27	19	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		6 J	<10	<10	<10
Vinyl Chloride	2		2 J	86	500 D	1100 D
Xylenes (total)	5		3 J	5.7 J	3.9 J	4.3 J
cis-1,2-Dichloroethene	5		5600 D	4600 D	2400 D	5300 D
trans-1,2-Dichloroethene	5		61	61	29	37

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-31 02/17/05 Shallow	MW-31 04/11/05 Shallow	MW-31 06/07/05 Shallow	MW-31 09/06/05 Shallow
Acetone	50		210	230	280	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		1700 D	2200 D	1900 D	330 D
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	<10	12
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		7.7 J	4.6 J	8.6 J	<10
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		<10	<10	<10	1.6 J
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		5.1 J	1.9 J	<10	<10
Toluene	5		<10	<10	<10	<10
1,1,1-Trichloroethane	5		<10	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		<10	<10	<10	<10
Vinyl Chloride	2		650 D	700 D	490 D	190 J
Xylenes (total)	5		<10	<10	3.6 J	2.2 J
cis-1,2-Dichloroethene	5		1500 D	1200 D	1800 D	720 D
trans-1,2-Dichloroethene	5		22	19	31	32 J

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-31 11/10/05 Shallow	MW-31 01/03/06 Shallow	MW-31 3/30/2006 Shallow	MW-31 6/16/2006 Shallow
Acetone	50		<20	<10	5.9 J	<20
Benzene	1		<10	<5	<10	<10
Bromodichloromethane	50		<10	<5	<10	<10
Bromoform	50		<10	<5	<10	<10
Bromomethane	5		<10	<5	<10	<10
Methyl Ethyl Ketone	50		**180**	**130**	**64**	38
Carbon Disulfide	60		<10	<5	<10	<10
Carbon Tetrachloride	5		<10	<5	<10	<10
Chlorobenzene	5		<10	<5	<10	<10
Chloroethane	5		**8.4 J**	**9.5 J**	**6.5 J**	2.9 J
Chloroform	7		<10	<5	<10	<10
Chloromethane	-		<10	<5	<10	<10
Dibromochloromethane	50		<10	<5	<10	<10
1,1-Dichloroethane	5		<10	<5	<10	<10
1,2-Dichloroethane	0.6		<10	<5	<10	<10
1,1-Dichloroethene	5		<10	<5	<10	<10
1,2-Dichloropropane	1		<10	<5	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<5	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<5	<10	<10
Ethylbenzene	5		<10	<5	<10	<10
2-Hexanone	50		<20	<10	<20	<20
Methylene Chloride	5		<10	<5	<10	<10
Methyl Isobutyl Ketone	-		<20	<10	<20	<20
Styrene	5		<10	<5	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<5	<10	<10
Tetrachloroethene	5		<10	<5	<10	<10
Toluene	5		<10	<5	<10	1.1 J
1,1,1-Trichloroethane	5		<10	<5	<10	<10
1,1,2-Trichloroethane	1		<10	<5	<10	<10
Trichloroethene	5		<10	<5	<10	<10
Vinyl Chloride	2		**130**	**18**	**240**	**180**
Xylenes (total)	5		<10	<5	4 J	<10
cis-1,2-Dichloroethene	5		**520 DJ**	**73**	**1000 D**	**470 D**
trans-1,2-Dichloroethene	5		**16**	5 J	**28**	**14**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-31 9/28/2006 Shallow	MW-31 12/20/2006 Shallow	MW-31 3/29/2007 Shallow	MW-31 6/21/2007 Shallow
Acetone	50		<10	**180**	<10	4.7 J
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
Methyl Ethyl Ketone	50		**67**	**360 D**	**62**	23
Carbon Disulfide	60		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		**7.6**	**7.3 J**	**5.8**	**6.3**
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		1.5 J	1.4 J	1.6 J	1.4 J
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	<5	<5	<5
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
Methyl Isobutyl Ketone	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	<5	<5
Toluene	5		0.81 J	3.2 J	**12**	**84**
1,1,1-Trichloroethane	5		<5	<5	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	<5	<5	<5
Vinyl Chloride	2		**39**	**5.6**	**76**	**61**
Xylenes (total)	5		3.4 J	3.0 J	3.8 J	4.7 J
cis-1,2-Dichloroethene	5		**19**	3.7 J	**32**	**37**
trans-1,2-Dichloroethene	5		**17**	**16**	**21**	**24**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-31 9/25/2007 Shallow	MW-31 12/12/2007 Shallow	MW-31 3/24/2008 Shallow	MW-31 6/25/2008 Shallow
Acetone	50		<10	<10	<10	6.0 J
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
Methyl Ethyl Ketone	50		13	41	15	<10
Carbon Disulfide	60		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		**6.2**	<5	2.8 J	**5.8**
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		3.0 J	<5	<5	4.1 J
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		0.53 J	<5	<5	0.75 J
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
Methyl Isobutyl Ketone	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	<5	<5
Toluene	5		**110**	**47**	**65**	**160**
1,1,1-Trichloroethane	5		<5	<5	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	<5	<5	<5
Vinyl Chloride	2		**4.8**	1.5	**7.2**	**4.1**
Xylenes (total)	5		**5.8**	2.3 J	<5	**8.7**
cis-1,2-Dichloroethene	5		3.8 J	3.1 J	**19**	**7.6**
trans-1,2-Dichloroethene	5		**17**	**6.2**	4 J	**8.4**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-31	MW-31	MW-4	MW-4
		Sample Date:	9/29/2008	12/24/2008	06/17/03	04/01/04
		Zone:	Shallow	Shallow	Shallow	Shallow
Acetone	50		1.4 J	1.3 J	<10	<10
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
Methyl Ethyl Ketone	50		<10	2.1 J	<10	<10
Carbon Disulfide	60		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		6.5	<5	<5	<5
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		1.3 J	<5	<5	<5
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	<5	<5	<5
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
Methyl Isobutyl Ketone	-		<10	<10	<10	<10
Styrene	5		<5	<5 J	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	700 D	850 D
Toluene	5		5.8	<5	<5	<5
1,1,1-Trichloroethane	5		<5	<5	10	13
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	<5	88	84
Vinyl Chloride	2		<1	<1	<1	<1
Xylenes (total)	5		6	<5	<5	<5
cis-1,2-Dichloroethene	5		1.8 J	<5	24	26
trans-1,2-Dichloroethene	5		3.7 J	<5	<5	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-4 10/12/04 Shallow	MW-4 6/16/2006 Shallow	MW-4 12/20/2006 Shallow	MW-4 12/12/2007 Shallow
Acetone	50		<20	<10	<10 B	<10
Benzene	1		<10	<5	<5	<5
Bromodichloromethane	50		<10	<5	<5	<5
Bromoform	50		<10	<5	<5	<5
Bromomethane	5		<10	<5	<5	<5
Methyl Ethyl Ketone	50		<20	1.8 J	2.7 J	<10
Carbon Disulfide	60		<10	<5	<5	<5
Carbon Tetrachloride	5		<10	<5	<5	<5
Chlorobenzene	5		<10	<5	<5	<5
Chloroethane	5		<10	<5	<5	<5
Chloroform	7		<10	<5	<5	<5
Chloromethane	-		<10	<5	<5	<5
Dibromochloromethane	50		<10	<5	<5	<5
1,1-Dichloroethane	5		<10	<5	<5	<5
1,2-Dichloroethane	0.6		<10	<5	<5	<5
1,1-Dichloroethene	5		<10	<5	<5	<5
1,2-Dichloropropane	1		<10	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<5	<5	<5
Ethylbenzene	5		<10	<5	<5	<5
2-Hexanone	50		<20	<10	<10	<10
Methylene Chloride	5		<10	<5	<5	<5
Methyl Isobutyl Ketone	-		<20	<10	<10	<10
Styrene	5		<10	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<5	<5	<5
Tetrachloroethene	5		**170**	**34**	3.7 J	<5
Toluene	5		<10	<5	<5	<5
1,1,1-Trichloroethane	5		<10	<5	<5	<5
1,1,2-Trichloroethane	1		<10	<5	<5	<5
Trichloroethene	5		**13**	**5.7**	<5	<5
Vinyl Chloride	2		<2	<1	<1	<1
Xylenes (total)	5		<10	<5	<5	<5
cis-1,2-Dichloroethene	5		4 J	**65**	**11**	<5
trans-1,2-Dichloroethene	5		<10	<5	<5	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date: / Zone:	MW-4 12/24/2008 Shallow	IW-25 12/20/2006 Intermediate	IW-23 12/19/2006 Intermediate	IW-23 6/21/2007 Intermediate
Acetone	50		<10	41 B	<20	<20
Benzene	1		<5	0.91 J	<10	<10
Bromodichloromethane	50		<5	<10	<10	<10
Bromoform	50		<5	<10	<10	<10
Bromomethane	5		<5	<10	<10	<10
Methyl Ethyl Ketone	50		<10	**160**	12 J	**51**
Carbon Disulfide	60		<5	<10	<10	<10
Carbon Tetrachloride	5		<5	<10	<10	<10
Chlorobenzene	5		<5	<10	<10	<10
Chloroethane	5		<5	<10	<10	<10
Chloroform	7		<5	<10	<10	<10
Chloromethane	-		<5	<10	<10	<10
Dibromochloromethane	50		<5	<10	<10	<10
1,1-Dichloroethane	5		<5	**12**	**15**	**13**
1,2-Dichloroethane	0.6		<5	<10	<10	<10
1,1-Dichloroethene	5		<5	**23**	**40**	**80**
1,2-Dichloropropane	1		<5	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<5	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<5	<10	<10	<10
Ethylbenzene	5		<5	**9.7 J**	<10	3.7 J
2-Hexanone	50		<10	<20	<20	<20
Methylene Chloride	5		<5	<10	<10	<10
Methyl Isobutyl Ketone	-		<10	<20	<20	<20
Styrene	5		<5 J	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<5	<10	<10	<10
Tetrachloroethene	5		<5	**25000 D**	**18**	**22**
Toluene	5		<5	**73**	**5.5 J**	**15**
1,1,1-Trichloroethane	5		<5	**1100 D**	**45**	**110**
1,1,2-Trichloroethane	1		<5	<10	<10	<10
Trichloroethene	5		<5	**5200 D**	**10**	**7.6 J**
Vinyl Chloride	2		<1	1.8 J	**8.1**	**4.5**
Xylenes (total)	5		<5	**160**	**19**	**53**
cis-1,2-Dichloroethene	5		<5	**13000 D**	**18000 D**	**33000 D**
trans-1,2-Dichloroethene	5		<5	**86**	**27**	**83**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	IW-23	IW-23	IW-18	IW-18
		Sample Date:	12/14/2007	12/24/2008	9/28/2006	12/19/2006
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<11 B	11	110	88 B
Benzene	1		<5	<5	2.1 J	1.5 J
Bromodichloromethane	50		<5	<5	<10	<10
Bromoform	50		<5	<5	<10	<10
Bromomethane	5		<5	<5	<10	<10
Methyl Ethyl Ketone	50		160	120	97	190
Carbon Disulfide	60		<5	<5	<10	<10
Carbon Tetrachloride	5		<5	<5	<10	<10
Chlorobenzene	5		<5	<5	<10	<10
Chloroethane	5		<5	<5	21	<10
Chloroform	7		<5	<5	2.5 J	<10
Chloromethane	-		<5	<5	<10	<10
Dibromochloromethane	50		<5	<5	<10	<10
1,1-Dichloroethane	5		15	15	22	28
1,2-Dichloroethane	0.6		<5	<5	<10	<10
1,1-Dichloroethene	5		72	7.9	83	180
1,2-Dichloropropane	1		<5	<5	<10	<10
cis-1,3-Dichloropropene	0.4		<5	<5	<10	<10
trans-1,3-Dichloropropene	0.4		<5	<5	<10	<10
Ethylbenzene	5		4.9 J	2.1 J	24	45
2-Hexanone	50		<10	<10	<20	<20
Methylene Chloride	5		<5	<5 B	<10	<10
Methyl Isobutyl Ketone	-		<10	<10	<20	<20
Styrene	5		<5	<5	<10	6.9 J
1,1,2,2-Tetrachloroethane	5		<5	<5	<10	<10
Tetrachloroethene	5		6.1	4.2 J	85000 DB	76000 D
Toluene	5		13	6.5	48	64
1,1,1-Trichloroethane	5		92	18	2700 D	1800 DJ
1,1,2-Trichloroethane	1		<5	<5	<10	<10
Trichloroethene	5		<5	3.6 J	14000 D	8100 D
Vinyl Chloride	2		6.4	1100 DJ	4.7	5.8
Xylenes (total)	5		72	35	320	570
cis-1,2-Dichloroethene	5		28000 D	4900 DJ	45000 D	63000 D
trans-1,2-Dichloroethene	5		130	66	75	370

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	IW-18	IW-18	IW-8	IW-8
		Sample Date:	3/29/2007	6/21/2007	12/19/2006	12/12/2007
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<20	18 J	<10	<10
Benzene	1		2.1 J	1 J	<5	<5
Bromodichloromethane	50		<10	<10	<5	<5
Bromoform	50		<10	<10	<5	<5
Bromomethane	5		<10	<10	<5	<5
Methyl Ethyl Ketone	50		110	71	<10	<10
Carbon Disulfide	60		<10	<10	<5	<5
Carbon Tetrachloride	5		<10	<10	<5	<5
Chlorobenzene	5		<10	<10	<5	<5
Chloroethane	5		<10	<10	<5	<5
Chloroform	7		1.6 J	<10	<5	<5
Chloromethane	-		<10	<10	<5	<5
Dibromochloromethane	50		<10	<10	<5	<5
1,1-Dichloroethane	5		33	28	1.4 J	2.8 J
1,2-Dichloroethane	0.6		<10	<10	<5	<5
1,1-Dichloroethene	5		210	220	0.89 J	<5
1,2-Dichloropropane	1		<10	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<5
Ethylbenzene	5		45	38	<5	<5
2-Hexanone	50		<20	<20	<10	<10
Methylene Chloride	5		<10	<10	<5	<5
Methyl Isobutyl Ketone	-		<20	<20	<10	<10
Styrene	5		<10	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<5
Tetrachloroethene	5		72000 DB	44000 DJ	<5	<5
Toluene	5		72	47	<5	<5
1,1,1-Trichloroethane	5		1900 DJ	980 DJ	0.81 J	<5
1,1,2-Trichloroethane	1		<10	<10	<5	<5
Trichloroethene	5		7800 D	8000 D	<5	<5
Vinyl Chloride	2		7.3	9.7	<1	60
Xylenes (total)	5		460	480	<5	2.3 J
cis-1,2-Dichloroethene	5		47000 D	45000 D	470 D	530 D
trans-1,2-Dichloroethene	5		120	66 J	0.83 J	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-13D	MW-13D	MW-13D	MW-13D
		Sample Date:	12/19/2006	3/29/2007	6/21/2007	9/25/2007
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		22 B	<20	<20	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		44	120	17 J	<20
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	<10	<10
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		12	19	20	15
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		68	73	72	57
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10	2.8 J	2.1 J	2.8 J
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		1.1 J	<10	130	15
Toluene	5		3.9 J	9 J	8 J	7.2 J
1,1,1-Trichloroethane	5		80	84	88	71
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		3.2 J	<10	11	29
Vinyl Chloride	2		1400 D	990 D	1500 D	1100 D
Xylenes (total)	5		18	30	28	39
cis-1,2-Dichloroethene	5		15000 D	17000 D	16000 D	14000 D
trans-1,2-Dichloroethene	5		78	56	39	35

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-13D	MW-13D	MW-13D	MW-13D
		Sample Date:	12/12/2007	6/25/2008	9/29/2008	12/24/2008
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<10 B	<10	3.2 J	3.7 J
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
Methyl Ethyl Ketone	50		36	37	**54**	38
Carbon Disulfide	60		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		<5	4.0 J	**8.9**	**15**
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		**19**	**15**	**12**	4.1 J
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		**38**	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		3.2 J	1.6 J	1.2 J	1.1 J
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
Methyl Isobutyl Ketone	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5 J
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	<5	<5
Toluene	5		**8.3**	**5.6**	3.7 J	2.5 J
1,1,1-Trichloroethane	5		**70**	**8.2**	0.79 J	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	<5	<5	1.9 J
Vinyl Chloride	2		**1700 D**	**15**	<1	<1
Xylenes (total)	5		**43**	**25**	**19**	**13**
cis-1,2-Dichloroethene	5		**11000 D**	**12**	<5	3.2 J
trans-1,2-Dichloroethene	5		**45**	**63**	**38**	**18**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	IW-9	MW-33	MW-33	MW-33
		Sample Date:	6/25/2008	06/26/03	10/08/03	12/04/03
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		27	<20	<200	26
Benzene	1		<5	<10	<100	<5
Bromodichloromethane	50		<5	<10	<100	<5
Bromoform	50		<5	<10	<100	<5
Bromomethane	5		<5	<10	<100	<5
Methyl Ethyl Ketone	50		23	<20	<200	69
Carbon Disulfide	60		<5	<10	<100	<5
Carbon Tetrachloride	5		<5	<10	<100	<5
Chlorobenzene	5		<5	<10	<100	<5
Chloroethane	5		<5	<10	<100	<5
Chloroform	7		<5	<10	<100	<5
Chloromethane	-		<5	<10	<100	<5
Dibromochloromethane	50		<5	<10	<100	<5
1,1-Dichloroethane	5		20	<10	<100	3 J
1,2-Dichloroethane	0.6		<5	<10	<100	<5
1,1-Dichloroethene	5		36	<10	<100	1 J
1,2-Dichloropropane	1		<5	<10	<100	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<100	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<100	<5
Ethylbenzene	5		2.3 J	<10	<100	<5
2-Hexanone	50		<10	<20	<200	<10
Methylene Chloride	5		<5	<10	<100	<5
Methyl Isobutyl Ketone	-		<10	<20	<200	<10
Styrene	5		<5	<10	<100	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<100	<5
Tetrachloroethene	5		9.7	2600 D	87 J	40
Toluene	5		15	<10	<100	<5
1,1,1-Trichloroethane	5		97	<10	<100	6
1,1,2-Trichloroethane	1		<5	<10	<100	<5
Trichloroethene	5		51	120	210	64
Vinyl Chloride	2		1500 D	<2	<20	<1
Xylenes (total)	5		26	<10	<100	4 J
cis-1,2-Dichloroethene	5		9400 D	41	1900	1400 D
trans-1,2-Dichloroethene	5		70	<10	<100	11

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-33	MW-33	MW-33	MW-33
		Sample Date:	02/05/04	04/02/04	08/05/04	02/17/05
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		44	74	170	150
Benzene	1		<5	<10	<10	<10
Bromodichloromethane	50		<5	<10	<10	<10
Bromoform	50		<5	<10	<10	<10
Bromomethane	5		<5	<10	<10	<10
Methyl Ethyl Ketone	50		220 D	620 D	1800 D	1800 D
Carbon Disulfide	60		0.7 J	<10	<10	<10
Carbon Tetrachloride	5		<5	<10	<10	<10
Chlorobenzene	5		<5	<10	<10	<10
Chloroethane	5		<5	<10	3 J	7.4 J
Chloroform	7		<5	<10	<10	<10
Chloromethane	-		<5	<10	<10	<10
Dibromochloromethane	50		<5	<10	<10	<10
1,1-Dichloroethane	5		5 J	10 J	<10	<10
1,2-Dichloroethane	0.6		<5	<10	<10	<10
1,1-Dichloroethene	5		1 J	2 J	<10	<10
1,2-Dichloropropane	1		<5	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<5	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<5	<10	<10	<10
Ethylbenzene	5		<5	<10	<10	<10
2-Hexanone	50		<10	<20	<20	<20
Methylene Chloride	5		<5	<10	<10	<10
Methyl Isobutyl Ketone	-		<10	<20	<20	<20
Styrene	5		<5	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<5	<10	<10	<10
Tetrachloroethene	5		<5	6 J	<10	95
Toluene	5		<5	<10	<10	<10
1,1,1-Trichloroethane	5		<5	<10	<10	5.8 J
1,1,2-Trichloroethane	1		<5	<10	<10	<10
Trichloroethene	5		83	23	7 J	67
Vinyl Chloride	2		<1	<2	<2	<2
Xylenes (total)	5		4	5 J	<10	<10
cis-1,2-Dichloroethene	5		1700 D	1900 D	1500 D	1600 D
trans-1,2-Dichloroethene	5		17	24	20	13

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-33	MW-33	MW-33	MW-33
		Sample Date:	6/16/2006	12/19/2006	3/29/2007	6/21/2007
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<20	<20	<10	6.2 J
Benzene	1		<10	<10	<5	<10
Bromodichloromethane	50		<10	<10	<5	<10
Bromoform	50		<10	<10	<5	<10
Bromomethane	5		<10	<10	<5	<10
Methyl Ethyl Ketone	50		110	34	53	40
Carbon Disulfide	60		<10	<10	<5	<10
Carbon Tetrachloride	5		<10	<10	<5	<10
Chlorobenzene	5		<10	<10	<5	<10
Chloroethane	5		5.1 J	4.8 J	9.4	5.4 J
Chloroform	7		<10	<10	<5	<10
Chloromethane	-		<10	<10	<5	<10
Dibromochloromethane	50		<10	<10	<5	<10
1,1-Dichloroethane	5		3.9 J	4.7 J	9.3	1.8 J
1,2-Dichloroethane	0.6		<10	<10	<5	<10
1,1-Dichloroethene	5		<10	<10	1.4 J	<10
1,2-Dichloropropane	1		<10	<10	<5	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<10
Ethylbenzene	5		<10	<10	<5	<10
2-Hexanone	50		<20	<20	1.1 J	<20
Methylene Chloride	5		<10	<10	<5	<10
Methyl Isobutyl Ketone	-		<20	<20	<10	<20
Styrene	5		<10	<10	<5	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<10
Tetrachloroethene	5		<10	<10	<5	14
Toluene	5		0.97 J	<10	0.82 J	<10
1,1,1-Trichloroethane	5		2.4 J	<10	<5	<10
1,1,2-Trichloroethane	1		<10	<10	<5	<10
Trichloroethene	5		<10	<10	0.86 J	1.7 J
Vinyl Chloride	2		23	54	140	80
Xylenes (total)	5		<10	<10	2 J	<10
cis-1,2-Dichloroethene	5		2400 D	2600 D	1600 D	540 D
trans-1,2-Dichloroethene	5		18	18	28	16

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-33	MW-33	MW-23	MW-23
		Sample Date:	9/25/2007	12/14/2007	06/26/03	12/04/03
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<20	13	<20	21
Benzene	1		<10	<5	<10	<5
Bromodichloromethane	50		<10	<5	<10	<5
Bromoform	50		<10	<5	<10	<5
Bromomethane	5		<10	<5	<10	<5
Methyl Ethyl Ketone	50		73	120	<20	44
Carbon Disulfide	60		<10	<5	<10	<5
Carbon Tetrachloride	5		<10	<5	<10	<5
Chlorobenzene	5		<10	<5	<10	<5
Chloroethane	5		6.7 J	3.3 J	<10	<5
Chloroform	7		<10	<5	<10	<5
Chloromethane	-		<10	<5	<10	<5
Dibromochloromethane	50		<10	<5	<10	<5
1,1-Dichloroethane	5		<10	<5	<10	2 J
1,2-Dichloroethane	0.6		<10	<5	<10	<5
1,1-Dichloroethene	5		<10	<5	<10	<5
1,2-Dichloropropane	1		<10	<5	<10	<5
cis-1,3-Dichloropropene	0.4		<10	<5	<10	<5
trans-1,3-Dichloropropene	0.4		<10	<5	<10	<5
Ethylbenzene	5		<10	<5	<10	1 J
2-Hexanone	50		<20	<10	<20	<10
Methylene Chloride	5		<10	<5	<10	<5
Methyl Isobutyl Ketone	-		<20	<10	<20	<10
Styrene	5		<10	<5	<10	<5
1,1,2,2-Tetrachloroethane	5		<10	<5	<10	<5
Tetrachloroethene	5		<10	2.8 J	340	21
Toluene	5		<10	<5	<10	0.7 J
1,1,1-Trichloroethane	5		<10	<5	<10	4 J
1,1,2-Trichloroethane	1		<10	<5	<10	<5
Trichloroethene	5		<10	<5	150	46
Vinyl Chloride	2		47	72	<2	<1
Xylenes (total)	5		1.9 J	1.9 J	<10	2 J
cis-1,2-Dichloroethene	5		310	270 D	32	390 D
trans-1,2-Dichloroethene	5		18	11	<10	<5

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-23	MW-27D	MW-27D	MW-27D
		Sample Date:	02/04/04	06/24/03	12/05/03	02/04/04
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		**51**	<20	33	20
Benzene	1		<10	<10	<5	<5
Bromodichloromethane	50		<10	<10	<5	<5
Bromoform	50		<10	<10	<5	<5
Bromomethane	5		<10	<10	<5	<5
Methyl Ethyl Ketone	50		**140**	<20	7 J	<10
Carbon Disulfide	60		<10	<10	<5	<5
Carbon Tetrachloride	5		<10	<10	<5	<5
Chlorobenzene	5		<10	<10	<5	<5
Chloroethane	5		<10	<10	<5	<5
Chloroform	7		<10	<10	<5	<5
Chloromethane	-		<10	<10	<5	<5
Dibromochloromethane	50		<10	<10	<5	<5
1,1-Dichloroethane	5		<10	<10	**8**	**14**
1,2-Dichloroethane	0.6		<10	<10	<5	<5
1,1-Dichloroethene	5		<10	<10	**11**	**25**
1,2-Dichloropropane	1		<10	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<5
Ethylbenzene	5		<10	<10	3 J	**10**
2-Hexanone	50		<20	<20	<10	<10
Methylene Chloride	5		<10	<10	<5	<5
Methyl Isobutyl Ketone	-		<20	<20	<10	<10
Styrene	5		<10	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<5
Tetrachloroethene	5		**16**	**6700 D**	**1100 D**	**8**
Toluene	5		<10	<10	2 J	4 J
1,1,1-Trichloroethane	5		<10	**32**	**54**	**110**
1,1,2-Trichloroethane	1		<10	<10	<5	<5
Trichloroethene	5		**19**	**4100 D**	**1800 D**	**26**
Vinyl Chloride	2		<2	<2	<1	<1
Xylenes (total)	5		<10	<10	**24**	**83**
cis-1,2-Dichloroethene	5		**530 D**	**1200 D**	**9900 D**	**38000 D**
trans-1,2-Dichloroethene	5		4 J	**16**	**100**	**310 DJ**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-27D	MW-27D	MW-27D	MW-27D
		Sample Date:	04/02/04	06/21/04	08/09/04	10/14/04
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		130	140	270	140
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		410 DJ	1500 DJ	1100 D	850 D
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	<10	<10
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		14	49	29	35
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		7 J	27	8 J	<10
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		3 J	16	4 J	4.7 J
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		11	15	34	11
Toluene	5		1 J	8 J	2 J	1.9 J
1,1,1-Trichloroethane	5		40	250	42	55
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		12	10	7 J	<10
Vinyl Chloride	2		1 J	3	3	<2
Xylenes (total)	5		30	140	34	30
cis-1,2-Dichloroethene	5		9100 D	28000 D	13000 D	12000 D
trans-1,2-Dichloroethene	5		150	350 DJ	250	230

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-27D	MW-27D	MW-27D	MW-27D
		Sample Date:	02/17/05	03/04/05	06/07/05	11/10/05
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		**110**	<20	**200**	41
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		**1600 D**	**130**	**290**	15 J
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		4.7 J	**12**	**18**	3.2 J
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		**16**	**11**	**7.9 J**	3.5 J
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		**5.2 J**	2.8 J	<10	<10
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		2.4 J	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		2.2 J	<10	<10	<10
Toluene	5		0.96 J	<10	<10	<10
1,1,1-Trichloroethane	5		**9.4 J**	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		<10	<10	<10	<10
Vinyl Chloride	2		**5.6**	**6.9**	**2100 D**	**430 D**
Xylenes (total)	5		**19**	4.7 J	**12**	2.5 J
cis-1,2-Dichloroethene	5		**18000 D**	**14000 D**	**2200 D**	**2200 D**
trans-1,2-Dichloroethene	5		**260**	**120**	**150**	**75**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-27D	MW-27D	MW-27D	MW-27D
		Sample Date:	3/30/2006	6/16/2006	9/28/2006	12/19/2006
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		3.8 J	<20	<10	<10
Benzene	1		<5	<10	<5	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
Methyl Ethyl Ketone	50		42	6.8 J	4.8 J	18
Carbon Disulfide	60		<5	<10	<5	<5
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		**11 J**	<10	**9.2**	<5
Chloroform	7		<5	<10	<5	<5
Chloromethane	-		<5	<10	<5	<5
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		<5	2.8 J	2.2 J	**8.8**
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		<5	<10	<5	1.1 J
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	<5	<5
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5	<5
Methyl Isobutyl Ketone	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		<5	<10	<10	<5
Toluene	5		<5	0.61 J	0.32 J	0.47 J
1,1,1-Trichloroethane	5		<5	<10	1.7 J	0.68 J
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		<5	<10	**19**	<5
Vinyl Chloride	2		**4 J**	**160**	**170 D**	**2300 D**
Xylenes (total)	5		1.8 J	<10	**5 J**	3.3 J
cis-1,2-Dichloroethene	5		3.7 J	**270 D**	**240 D**	**2200 D**
trans-1,2-Dichloroethene	5		**40**	**40**	**36**	**140**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-27D	MW-27D	MW-27D	MW-27D
		Sample Date:	3/29/2007	6/21/2007	9/25/2007	6/25/2008
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<10	<20	<10	<10
Benzene	1		<5	<10	<5	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
Methyl Ethyl Ketone	50		18	<20	22	<10
Carbon Disulfide	60		<5	<10	<5	<5
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		<5	<10	2.2 J	<5
Chloroform	7		<5	<10	<5	<5
Chloromethane	-		<5	<10	<5	0.98 J
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		3 J	1.4 J	2.7 J	1.3 J
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		<5	<10	<5	<5
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	<5	<5
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5	<5
Methyl Isobutyl Ketone	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		<5	<10	<5	<5
Toluene	5		0.36 J	<10	<5	0.53 J
1,1,1-Trichloroethane	5		<5	<10	<5	<5
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		<5	<10	<5	<5
Vinyl Chloride	2		**17**	**250**	**5.4**	**26**
Xylenes (total)	5		1.4 J	<10	1.6 J	<5
cis-1,2-Dichloroethene	5		**8.9**	**210**	2.9 J	**35**
trans-1,2-Dichloroethene	5		**24**	**10**	**11**	2.3 J

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-28D	MW-28D	MW-28D	MW-30
		Sample Date:	06/24/03	10/12/04	12/24/2008	06/24/03
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<10	<20	14	<10
Benzene	1		<5	<10	<5	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
Methyl Ethyl Ketone	50		<10	<20	**140**	<10
Carbon Disulfide	60		<5	<10	<5	<5
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		<5	<10	<5	<5
Chloroform	7		<5	<10	<5	2 J
Chloromethane	-		<5	<10	<5	<5
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		<5	<10	**5.5**	<5
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		<5	<10	**13**	<5
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	1 J	<5
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5 B	<5
Methyl Isobutyl Ketone	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		**77**	**710 D**	<5	**5300D**
Toluene	5		<5	<10	**15**	<5
1,1,1-Trichloroethane	5		0.9 J	<10	<5	13
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		**19**	**84**	<5	**470 D**
Vinyl Chloride	2		<1	<2	**1200 DJ**	<1
Xylenes (total)	5		<5	<10	**6.8**	<5
cis-1,2-Dichloroethene	5		1 J	**64**	**6100 DJ**	**330 D**
trans-1,2-Dichloroethene	5		<5	<10	**29**	4 J

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-30	MW-30	MW-30	MW-30
		Sample Date:	04/01/04	06/18/04	08/09/04	10/13/04
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		41	72	83	240
Benzene	1		<5	<3	<10	<10
Bromodichloromethane	50		<5	<3	<10	<10
Bromoform	50		<5	<3	<10	<10
Bromomethane	5		<5	<3	<10	<10
Methyl Ethyl Ketone	50		13	340	680 EJ	990 D
Carbon Disulfide	60		<5	<3	<10	<10
Carbon Tetrachloride	5		<5	<3	<10	<10
Chlorobenzene	5		<5	<3	<10	<10
Chloroethane	5		<5	<3	<10	<10
Chloroform	7		<5	<3	<10	<10
Chloromethane	-		<5	<3	<10	<10
Dibromochloromethane	50		<5	<3	<10	<10
1,1-Dichloroethane	5		4 J	10	9 J	<10
1,2-Dichloroethane	0.6		<5	<3	<10	<10
1,1-Dichloroethene	5		5 J	9	8 J	4.8 J
1,2-Dichloropropane	1		<5	<3	<10	<10
cis-1,3-Dichloropropene	0.4		<5	<3	<10	<10
trans-1,3-Dichloropropene	0.4		<5	<3	<10	<10
Ethylbenzene	5		<5	<3	<10	2.9 J
2-Hexanone	50		<10	<7	<20	<20
Methylene Chloride	5		<5	<3	<10	<10
Methyl Isobutyl Ketone	-		<10	<7	<20	<20
Styrene	5		<5	<3	<10	<10
1,1,2,2-Tetrachloroethane	5		<5	<3	<10	<10
Tetrachloroethene	5		1100 D	23	3 J	1.8 J
Toluene	5		<5	<3	<10	<10
1,1,1-Trichloroethane	5		26	17	9 J	<10
1,1,2-Trichloroethane	1		<5	<3	<10	<10
Trichloroethene	5		1700 D	84	6 J	<10
Vinyl Chloride	2		<1	<0.7	<2	31
Xylenes (total)	5		1 J	7	7 J	7.1 J
cis-1,2-Dichloroethene	5		6300 D	9600 D	5700 D	3300 D
trans-1,2-Dichloroethene	5		95	95	76	43

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-30	MW-30	MW-30	MW-30
		Sample Date:	12/02/04	01/18/05	02/16/05	04/11/05
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		190	200	210	180
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		1200 D	1700 D	1900 D	2100 D
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	4.9 J	11	11
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		6.8 J	7.6 J	<10	<10
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		1.7 J	2 J	2 J	1.8 J
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		<10	10	3.5 J	<10
Toluene	5		<10	<10	<10	<10
1,1,1-Trichloroethane	5		<10	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		<10	<10	2.9 J	1.7 J
Vinyl Chloride	2		340	500 D	710 D	730 D
Xylenes (total)	5		6.2 J	5.5 J	6.6 J	5.8 J
cis-1,2-Dichloroethene	5		2300 D	3300 D	3400 D	4000 D
trans-1,2-Dichloroethene	5		27	37	49	35

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-30	MW-30	MW-30	MW-30
		Sample Date:	06/07/05	09/06/05	11/10/05	01/03/06
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		230	<20	<20	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		2600 D	690 D	230	270
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		9.0 J	14	35	24
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		<10	<10	<10	<10
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		<10	<10	4.1 J	2.9 J
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		<10	<10	<10	<10
Toluene	5		<10	<10	<10	<10
1,1,1-Trichloroethane	5		<10	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		<10	<10	<10	<10
Vinyl Chloride	2		300	210	170	160
Xylenes (total)	5		3.9 J	2.2 J	<10	<10
cis-1,2-Dichloroethene	5		2700 D	1400 D	4300 D	3500 D
trans-1,2-Dichloroethene	5		33	34	57	43

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-30	MW-30	MW-30	MW-30
		Sample Date:	3/30/2006	6/16/2006	12/20/2006	3/29/2007
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		6.6 J	<22	<20 B	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		160	170	320	190
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		16	12	14	12
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		<10	<10	<10	<10
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		2.2 J	<10	2.0 J	<10
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		<10	<10	9.1 J	<10
Toluene	5		0.79 J	0.73 J	0.63 J	0.63 J
1,1,1-Trichloroethane	5		<10	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		<10	<10	<10	<10
Vinyl Chloride	2		120	64	240	240
Xylenes (total)	5		2.6 J	<10	2.0 J	<10
cis-1,2-Dichloroethene	5		4800 D	4800 D	4500 D	1500 D
trans-1,2-Dichloroethene	5		53	33	45	36

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-30	MW-30	MW-30	MW-16D
		Sample Date:	6/21/2007	9/25/2007	12/14/2007	06/23/03
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		4.5 J	<20	<12 B	<20
Benzene	1		<5	<10	<5	<10
Bromodichloromethane	50		<5	<10	<5	<10
Bromoform	50		<5	<10	<5	<10
Bromomethane	5		<5	<10	<5	<10
Methyl Ethyl Ketone	50		47	35	**110**	<20
Carbon Disulfide	60		<5	<10	<5	<10
Carbon Tetrachloride	5		<5	<10	<5	<10
Chlorobenzene	5		<5	<10	<5	<10
Chloroethane	5		**9.6**	4.8 J	**5.9**	<10
Chloroform	7		<5	<10	<5	<10
Chloromethane	-		<5	<10	<5	<10
Dibromochloromethane	50		<5	<10	<5	<10
1,1-Dichloroethane	5		2.1 J	3.0 J	**11**	<10
1,2-Dichloroethane	0.6		<5	<10	<5	<10
1,1-Dichloroethene	5		<5	<10	<5	<10
1,2-Dichloropropane	1		<5	<10	<5	<10
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<10
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<10
Ethylbenzene	5		<5	<10	0.44 J	<10
2-Hexanone	50		<10	<20	<10	<20
Methylene Chloride	5		<5	<10	<5	<10
Methyl Isobutyl Ketone	-		<10	<20	<10	<20
Styrene	5		<5	<10	<5	<10
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<10
Tetrachloroethene	5		<5	<10	<5	**210**
Toluene	5		<5	<10	1.7 J	<10
1,1,1-Trichloroethane	5		<5	<10	<5	<10
1,1,2-Trichloroethane	1		<5	<10	<5	<10
Trichloroethene	5		<5	<10	<5	<10
Vinyl Chloride	2		**19**	**190**	**130**	<2
Xylenes (total)	5		<5	1.9 J	**7.3**	<10
cis-1,2-Dichloroethene	5		**17**	**270**	**220 D**	4 J
trans-1,2-Dichloroethene	5		**25**	**21**	**17**	<10

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-16D	MW-16D	MW-16D	MW-16D
		Sample Date:	05/05/04	06/18/04	07/15/04	08/05/04
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<20	<20	<20	<20
Benzene	1		<10	<10	<10	<10
Bromodichloromethane	50		<10	<10	<10	<10
Bromoform	50		<10	<10	<10	<10
Bromomethane	5		<10	<10	<10	<10
Methyl Ethyl Ketone	50		<20	<20	<20	<20
Carbon Disulfide	60		<10	<10	<10	<10
Carbon Tetrachloride	5		<10	<10	<10	<10
Chlorobenzene	5		<10	<10	<10	<10
Chloroethane	5		<10	<10	<10	<10
Chloroform	7		<10	<10	<10	<10
Chloromethane	-		<10	<10	<10	<10
Dibromochloromethane	50		<10	<10	<10	<10
1,1-Dichloroethane	5		<10	<10	<10	<10
1,2-Dichloroethane	0.6		<10	<10	<10	<10
1,1-Dichloroethene	5		<10	<10	<10	<10
1,2-Dichloropropane	1		<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<10
Ethylbenzene	5		<10	<10	<10	<10
2-Hexanone	50		<20	<20	<20	<20
Methylene Chloride	5		<10	<10	<10	<10
Methyl Isobutyl Ketone	-		<20	<20	<20	<20
Styrene	5		<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<10
Tetrachloroethene	5		**210**	**380**	**490 D**	**880 D**
Toluene	5		<10	<10	<10	<10
1,1,1-Trichloroethane	5		<10	<10	<10	<10
1,1,2-Trichloroethane	1		<10	<10	<10	<10
Trichloroethene	5		5 J	4 J	3 J	5 J
Vinyl Chloride	2		<2	<2	<2	<2
Xylenes (total)	5		<10	<10	<10	<10
cis-1,2-Dichloroethene	5		**60**	**67**	**35**	**30**
trans-1,2-Dichloroethene	5		<10	<10	<10	<10

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-16D	MW-16D	MW-16D	MW-16D
		Sample Date:	10/13/04	12/02/04	01/18/05	02/16/05
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<20	<20	<10	<20
Benzene	1		<10	<10	<5	<10
Bromodichloromethane	50		<10	<10	<5	<10
Bromoform	50		<10	<10	<5	<10
Bromomethane	5		<10	<10	<5	<10
Methyl Ethyl Ketone	50		<20	<20	<10	<20
Carbon Disulfide	60		<10	<10	<5	<10
Carbon Tetrachloride	5		<10	<10	<5	<10
Chlorobenzene	5		<10	<10	<5	<10
Chloroethane	5		<10	<10	<5	<10
Chloroform	7		<10	<10	<5	<10
Chloromethane	-		<10	<10	<5	<10
Dibromochloromethane	50		<10	<10	<5	<10
1,1-Dichloroethane	5		<10	<10	<5	<10
1,2-Dichloroethane	0.6		<10	<10	<5	<10
1,1-Dichloroethene	5		<10	<10	<5	<10
1,2-Dichloropropane	1		<10	<10	<5	<10
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<10
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<10
Ethylbenzene	5		<10	<10	<5	<10
2-Hexanone	50		<20	<20	<10	<20
Methylene Chloride	5		<10	<10	<5	<10
Methyl Isobutyl Ketone	-		<20	<20	<10	<20
Styrene	5		<10	<10	<5	<10
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<10
Tetrachloroethene	5		570 D	370	800 D	290
Toluene	5		<10	<10	<5	<10
1,1,1-Trichloroethane	5		<10	<10	<5	<10
1,1,2-Trichloroethane	1		<10	<10	<5	<10
Trichloroethene	5		4.3 J	9.4 J	4.2 J	61
Vinyl Chloride	2		<2	<2	<1	<2
Xylenes (total)	5		<10	<10	<5	<10
cis-1,2-Dichloroethene	5		24	140	500 D	1100 D
trans-1,2-Dichloroethene	5		<10	<10	3.3 J	10

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-16D	MW-16D	MW-16D	MW-16D
		Sample Date:	04/11/05	06/07/05	09/06/05	11/10/05
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		**120**	**100**	<20	<10
Benzene	1		<10	<10	<10	<5
Bromodichloromethane	50		<10	<10	<10	<5
Bromoform	50		<10	<10	<10	<5
Bromomethane	5		<10	<10	<10	<5
Methyl Ethyl Ketone	50		**470 D**	**930 D**	<79 B	14
Carbon Disulfide	60		<10	<10	< 10	<5
Carbon Tetrachloride	5		<10	<10	<10	<5
Chlorobenzene	5		<10	<10	<10	<5
Chloroethane	5		<10	2.5 J	**11**	1.8 J
Chloroform	7		<10	<10	<10	<5
Chloromethane	-		<10	<10	<10	<5
Dibromochloromethane	50		<10	<10	<10	<5
1,1-Dichloroethane	5		**5.3 J**	**10 J**	<10	<5
1,2-Dichloroethane	0.6		<10	<10	<10	<5
1,1-Dichloroethene	5		2.7 J	4.0 J	3.4 J	<5
1,2-Dichloropropane	1		<10	<10	<10	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<10	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<10	<5
Ethylbenzene	5		<10	<10	<10	<5
2-Hexanone	50		<20	<20	<20	<10
Methylene Chloride	5		<10	<10	<10	<5
Methyl Isobutyl Ketone	-		<20	<20	<20	<10
Styrene	5		<10	<10	<10	<5
1,1,2,2-Tetrachloroethane	5		<10	<10	<10	<5
Tetrachloroethene	5		2.1 J	**8.5 JB**	<10	<5
Toluene	5		**7.5 J**	0.69 J	<10	<5
1,1,1-Trichloroethane	5		<10	<10	<10	<5
1,1,2-Trichloroethane	1		<10	<10	<10	<5
Trichloroethene	5		**79**	**32 B**	**12**	1.1 J
Vinyl Chloride	2		**380**	**1100 D**	**1900 D**	**350 D**
Xylenes (total)	5		<10	<10	<10	<5
cis-1,2-Dichloroethene	5		**3400 D**	**5300 D**	**1400 D**	**73**
trans-1,2-Dichloroethene	5		**28**	**63**	**60**	**14**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-16D	MW-16D	MW-16D	MW-16D
		Sample Date:	01/03/06	3/30/2006	6/16/2006	9/28/2006
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<10	3.3 J	<20	<10
Benzene	1		<5	<10	<10	<5
Bromodichloromethane	50		<5	<10	<10	<5
Bromoform	50		<5	<10	<10	<5
Bromomethane	5		<5	<10	<10	<5
Methyl Ethyl Ketone	50		<11	**61**	37	**260 D**
Carbon Disulfide	60		<5	<10	<10	<5
Carbon Tetrachloride	5		<5	<10	<10	<5
Chlorobenzene	5		<5	<10	<10	<5
Chloroethane	5		<5	<10	4.0 J	**15**
Chloroform	7		<5	<10	<10	<5
Chloromethane	-		<5	<10	<10	<5
Dibromochloromethane	50		<5	<10	<10	<5
1,1-Dichloroethane	5		<5	**6.8 J**	1.3 J	<5
1,2-Dichloroethane	0.6		<5	<10	<10	<5
1,1-Dichloroethene	5		<5	1.5 J	<10	<5
1,2-Dichloropropane	1		<5	<10	<10	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<10	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<10	<5
Ethylbenzene	5		<5	<10	<10	<5
2-Hexanone	50		<10	<20	<20	<10
Methylene Chloride	5		<5	<10	<10	<5
Methyl Isobutyl Ketone	-		<10	<20	<20	<10
Styrene	5		<5	<10	<10	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<10	<5
Tetrachloroethene	5		<5	<10	<10	<5
Toluene	5		<5	<10	<10	0.44 J
1,1,1-Trichloroethane	5		<5	<10	<10	<5
1,1,2-Trichloroethane	1		<5	<10	<10	<5
Trichloroethene	5		<5	<10	<10	<5
Vinyl Chloride	2		**24**	**1800 D**	**1200 D**	**1700 D**
Xylenes (total)	5		<5	3.8 J	<10	2.4 J
cis-1,2-Dichloroethene	5		**13**	**1500 D**	**270 D**	**310 D**
trans-1,2-Dichloroethene	5		2.4 J	**47**	**30**	**35**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-16D	MW-16D	MW-16D	MW-16D
		Sample Date:	12/20/2006	3/29/2007	6/21/2007	9/25/2007
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		170 B	<20	<10	<10
Benzene	1		<5	<10	<5	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
Methyl Ethyl Ketone	50		1700 D	110	29	<10
Carbon Disulfide	60		<5	<10	<5	<5
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		11	3.5 J	1.8 J	0.70 J
Chloroform	7		<5	<10	<5	<5
Chloromethane	-		<5	<10	<5	<5
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		3.1 J	6.3 J	4.1 J	0.94 J
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		<5	<10	<5	<5
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	<5	<5
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5	<5
Methyl Isobutyl Ketone	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		16	<10	<5	<5
Toluene	5		0.42 J	<10	<5	<5
1,1,1-Trichloroethane	5		<5	<10	<5	<5
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		0.83 J	<10	<5	1.4 J
Vinyl Chloride	2		1400 D	1500 D	92	0.53 J
Xylenes (total)	5		2.1 J	2.4 J	1.2 J	<5
cis-1,2-Dichloroethene	5		420 D	2000 D	45	4.8 J
trans-1,2-Dichloroethene	5		36	34	28	5.8

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-16D	MW-16D	MW-16D	MW-34
		Sample Date:	12/12/2007	3/24/2008	12/24/2008	6/16/2006
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<10	<10	3.8 J	<10
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
Methyl Ethyl Ketone	50		<10	<10	14	8.5 J
Carbon Disulfide	60		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		<5	<5	<5	1.5 J
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		<5	<5	1.4 J	0.60 J
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	<5	<5	<5
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
Methyl Isobutyl Ketone	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5 J	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	<5	<5
Toluene	5		<5	<5	7	<5
1,1,1-Trichloroethane	5		<5	<5	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	<5	<5	0.98 J
Vinyl Chloride	2		0.62 J	0.67 J	<1	3.1
Xylenes (total)	5		<5	<5	4.2 J	<5
cis-1,2-Dichloroethene	5		<5	2 J	<5	11
trans-1,2-Dichloroethene	5		<5	<5	2.7 J	5.3

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-34	MW-34	MW-34	MW-34
		Sample Date:	12/20/2006	12/12/2007	3/24/2008	6/25/2008
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<10 B	<16 B	<10	21
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
Methyl Ethyl Ketone	50		3.3 J	30	25	**58**
Carbon Disulfide	60		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		2.6 J	<5	2.8 J	<5
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		<5	<5	**5.4**	**10**
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	0.6 J	0.86 J	1.2 J
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5 B	<5	<5	<5
Methyl Isobutyl Ketone	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	<5	<5
Toluene	5		<5	0.6 J	0.84 J	1.3 J
1,1,1-Trichloroethane	5		<5	<5	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	<5	<5	<5
Vinyl Chloride	2		**5.3**	**760 D**	**310 D**	**550 D**
Xylenes (total)	5		<5	**6**	**7.6**	**14**
cis-1,2-Dichloroethene	5		**5.7**	**920 D**	**260 D**	**1900 D**
trans-1,2-Dichloroethene	5		**6.2**	**43**	**33**	**54**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-34	MW-34	MW-35	MW-35
		Sample Date:	9/29/2008	12/24/2008	6/16/2006	9/29/2006
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		5.2 J	2.1 J	<20	<10
Benzene	1		<5	<5	<10	<5
Bromodichloromethane	50		<5	<5	<10	<5
Bromoform	50		<5	<5	<10	<5
Bromomethane	5		<5	<5	<10	<5
Methyl Ethyl Ketone	50		21	2.7 J	12 J	34
Carbon Disulfide	60		<5	<5	<10	<5
Carbon Tetrachloride	5		<5	<5	<10	<5
Chlorobenzene	5		<5	<5	<10	<5
Chloroethane	5		7.2	3.2 J	<10	<5
Chloroform	7		<5	<5	<10	<5
Chloromethane	-		<5	<5	<10	<5
Dibromochloromethane	50		<5	<5	<10	<5
1,1-Dichloroethane	5		4.5 J	4.9 J	5.6 J	2.2 J
1,2-Dichloroethane	0.6		<5	<5	<10	<5
1,1-Dichloroethene	5		<5	<5	2.6 J	<5
1,2-Dichloropropane	1		<5	<5	<10	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<10	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<10	<5
Ethylbenzene	5		1 J	<5	<10	<5
2-Hexanone	50		<10	<10	<20	<10
Methylene Chloride	5		<5	<5	<10	<5
Methyl Isobutyl Ketone	-		<10	<10	<20	<10
Styrene	5		<5	<5 J	<10	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<10	<5
Tetrachloroethene	5		<5	<5	3.3 J	68
Toluene	5		1.4 J	0.99 J	<10	0.53 J
1,1,1-Trichloroethane	5		<5	<5	4.7 J	<5
1,1,2-Trichloroethane	1		<5	<5	<10	<5
Trichloroethene	5		<5	<5	9.7 J	13
Vinyl Chloride	2		5.5	<1	5.2	78
Xylenes (total)	5		9.5	4.9 J	<10	<5
cis-1,2-Dichloroethene	5		5.8	1.1 J	3200 D	870 D
trans-1,2-Dichloroethene	5		28	11 J	24	6.2

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID:	MW-35	MW-35	MW-35	ERM-MW-02
		Sample Date:	12/20/2006	12/12/2007	12/24/2008	9/29/2008
		Zone:	Intermediate	Intermediate	Intermediate	Intermediate
Acetone	50		<20	<10	<10	7.2 J
Benzene	1		<10	<5	<5	<5
Bromodichloromethane	50		<10	<5	<5	<5
Bromoform	50		<10	<5	<5	<5
Bromomethane	5		<10	<5	<5	<5
Methyl Ethyl Ketone	50		25	<10	<10	**55**
Carbon Disulfide	60		<10	<5	<5	<5
Carbon Tetrachloride	5		<10	<5	<5	<5
Chlorobenzene	5		<10	<5	<5	<5
Chloroethane	5		<10	<5	<5	**5.5**
Chloroform	7		<10	<5	<5	<5
Chloromethane	-		<10	<5	<5	<5
Dibromochloromethane	50		<10	<5	<5	<5
1,1-Dichloroethane	5		**7.5 J**	<5	<5	**9.6**
1,2-Dichloroethane	0.6		<10	<5	<5	<5
1,1-Dichloroethene	5		3.1 J	<5	<5	<5
1,2-Dichloropropane	1		<10	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<5	<5	<5
Ethylbenzene	5		<10	<5	<5	<5
2-Hexanone	50		<20	<10	<10	<10
Methylene Chloride	5		<10	<5	<5	<5
Methyl Isobutyl Ketone	-		<20	<10	<10	<10
Styrene	5		<10	<5	<5 J	<5
1,1,2,2-Tetrachloroethane	5		<10	<5	<5	<5
Tetrachloroethene	5		**18**	<5	<5	<5
Toluene	5		<10	<5	<5	1 J
1,1,1-Trichloroethane	5		**6.6 J**	<5	<5	<5
1,1,2-Trichloroethane	1		<10	<5	<5	<5
Trichloroethene	5		3.9 J	**5.2**	<5	<5
Vinyl Chloride	2		**620 D**	**19**	<1	**7.2**
Xylenes (total)	5		<10	2.3 J	<5	3.3 J
cis-1,2-Dichloroethene	5		**3100 D**	**49**	1 J	2.6 J
trans-1,2-Dichloroethene	5		**28**	2.8 J	<5	**29**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: ERM-MW-02 Sample Date: 12/24/2008 Zone: Intermediate
Acetone	50	13 J
Benzene	1	<5
Bromodichloromethane	50	<5
Bromoform	50	<5
Bromomethane	5	<5
Methyl Ethyl Ketone	50	**76 J**
Carbon Disulfide	60	<5
Carbon Tetrachloride	5	<5
Chlorobenzene	5	<5
Chloroethane	5	4.7 J
Chloroform	7	<5
Chloromethane	-	<5
Dibromochloromethane	50	<5
1,1-Dichloroethane	5	**7.2 J**
1,2-Dichloroethane	0.6	<5
1,1-Dichloroethene	5	<5
1,2-Dichloropropane	1	<5
cis-1,3-Dichloropropene	0.4	<5
trans-1,3-Dichloropropene	0.4	<5
Ethylbenzene	5	<5
2-Hexanone	50	<10
Methylene Chloride	5	<5
Methyl Isobutyl Ketone	-	<10
Styrene	5	<5 J
1,1,2,2-Tetrachloroethane	5	<5
Tetrachloroethene	5	<5
Toluene	5	0.99 J
1,1,1-Trichloroethane	5	<5
1,1,2-Trichloroethane	1	<5
Trichloroethene	5	<5
Vinyl Chloride	2	**3.4 J**
Xylenes (total)	5	3.7 J
cis-1,2-Dichloroethene	5	<5
trans-1,2-Dichloroethene	5	**33 J**

ug/L	Micrograms per liter.
E	Exceeded calibration range.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

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Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-6 02/13/06 Shallow	IW-6 03/30/06 Shallow	IW-6 04/10/06 Shallow	IW-6 06/07/06 Shallow	IW-6 09/05/06 Shallow	IW-6 11/13/06 Shallow	IW-6 12/04/06 Shallow	IW-6 03/13/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	420	90	140	90	13	21	270	217
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	5.55	5.56	5.32	5.80	6.48	5.78	4.92	4.69
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-6 06/07/07 Shallow	IW-6 09/06/07 Shallow	IW-6 11/13/07 Shallow	IW-6 03/06/08 Shallow	IW-6 06/09/08 Shallow	IW-6 09/08/08 Shallow	IW-6 12/05/08 Shallow	IW-26 01/24/06 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	90.5	490	132	236	115	68	263	500
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	4.97	5.26	4.77	5.23	5.11	5.46	6.20	5.30
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-26 02/13/06 Shallow	IW-26 03/30/06 Shallow	IW-26 06/07/06 Shallow	IW-26 12/20/06 Shallow	IW-26 03/13/07 Shallow	IW-26 06/07/07 Shallow	IW-26 09/06/07 Shallow	IW-26 11/13/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	510	200	31	6000	1520	3430	1690	573
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.40	5.08	6.04	--	5.15	4.58	4.65	4.89
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-26 03/06/08 Shallow	IW-24 01/16/06 Shallow	IW-24 01/24/06 Shallow	IW-24 01/31/06 Shallow	IW-24 02/13/06 Shallow	IW-24 03/10/06 Shallow	IW-24 03/30/06 Shallow	IW-24 06/07/06 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	885	150	45	11	5.6	20	3.6	34
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.23	5.58	5.30	6.47	7.00	--	6.02	6.29
Conductivity	mS/cm	--	--	--	--	--	--	0.744	0.458
Temperature	deg C	--	--	--	--	--	--	15.27	16.1

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-24 06/26/06 Shallow	IW-24 12/20/06 Shallow	IW-24 03/13/07 Shallow	IW-24 06/07/07 Shallow	IW-24 09/06/07 Shallow	IW-24 03/24/08 Shallow	IW-24 06/09/08 Shallow	IW-24 09/08/08 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	670	1600	1510	2640	5.7	454	26.9	507
VOCs									
Tetrachloroethene	ug/L	2100 D	74	--	--	--	41	--	--
Trichloroethene	ug/L	290	3.5 J	--	--	--	2.7 J	--	--
cis-1,2-Dichloroethene	ug/L	730 D	3.5 J	--	--	--	2.4 J	--	--
Vinyl Chloride	ug/L	<2	<2	--	--	--	<1	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	<0.025	0.11	--	--	--	<0.025	--	--
Ethene	ug/L	0.028	0.16	--	--	--	<0.025	--	--
Methane	ug/L	7600	5700	--	--	--	13000	--	--
FIELD PARAMETERS									
pH	Standard units	5.74	5.48	5.39	4.62	5.19	5.22	6.13	5.55
Conductivity	mS/cm	1.572	1.831	--	1.134	0.413	1.006	--	--
Temperature	deg C	20.7	16.5	--	20.3	21.2	15.7	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-24 12/05/08 Shallow	IW-21 03/30/06 Shallow	IW-21 06/07/06 Shallow	IW-21 09/05/06 Shallow	MW-15 06/07/06 Shallow	MW-15 12/14/07 Shallow	IW-22* 12/05/06 Shallow	IW-22* 06/07/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	519	5.2	5.6	65	4.3	--	600	1120
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	<5	210	1100 D
Trichloroethene	ug/L	--	--	--	--	--	<5	64	350 D
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	<5	7000 D	3700 D
Vinyl Chloride	ug/L	--	--	--	--	--	<1	2.2	1.7 J
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	0.95	0.032
Ethene	ug/L	--	--	--	--	--	--	0.62	0.2
Methane	ug/L	--	--	--	--	--	--	16000	12000
FIELD PARAMETERS									
pH	Standard units	6.25	6.36	6.04	6.41	5.79	--	6.02	5.35
Conductivity	mS/cm	--	0.456	0.473	0.709	0.391	--	1.348	1.260
Temperature	deg C	--	16.11	16.7	16.0	15.3	--	17.1	19.2

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-22* 11/13/07 Shallow	IW-22* 12/05/08 Shallow	IW-17 06/07/06 Shallow	IW-17* 08/31/06 Shallow	IW-17* 12/05/06 Shallow	IW-17* 03/13/07 Shallow	IW-17* 06/07/07 Shallow	IW-17* 09/07/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	243	1090	840	280	1600	1980	2350	2380
VOCs									
Tetrachloroethene	ug/L	990 D	<5	--	50 B	39	3300 DB	57	22
Trichloroethene	ug/L	110	1.5 J	--	870 D	120	2100 D	7.9 J	12
cis-1,2-Dichloroethene	ug/L	1200 D	83	--	4200 D	1300 D	9400 D	760 D	530 D
Vinyl Chloride	ug/L	<1	15	--	6.6	38	8.2	95	19
LIGHT HYDROCARBONS									
Ethane	ug/L	<0.025	--	--	5.8	1.6	0.75	0.76	0.74
Ethene	ug/L	0.049	--	--	15	5.1	3.6	58	24
Methane	ug/L	6400	--	--	2900	11000	9000	11000	16000
FIELD PARAMETERS									
pH	Standard units	5.85	5.92	6.17	6.67	6.17	5.85	5.82	5.62
Conductivity	mS/cm	1.176	--	2.49	1.242	2.690	3.64	2.410	1.600
Temperature	deg C	15.3	--	16.0	16.0	17.4	15.4	20.7	19.3

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-17 12/14/07 Shallow	IW-17 03/06/08 Shallow	IW-17 06/09/08 Shallow	IW-17 09/08/08 Shallow	IW-17* 12/05/08 Shallow	IW-1 06/07/06 Shallow	IW-2* 12/05/06 Shallow	IW-2 06/07/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	--	2650	1640	2580	1320	390	4.3	124
VOCs									
Tetrachloroethene	ug/L	51	--	--	--	3.9 J	--	5.5	--
Trichloroethene	ug/L	13	--	--	--	1.8 J	--	<5	--
cis-1,2-Dichloroethene	ug/L	400 D	--	--	--	360 DJ	--	60	--
Vinyl Chloride	ug/L	15	--	--	--	54	--	<1	--
LIGHT HYDROCARBONS									
Ethane	ug/L	0.72	--	--	--	9.3	--	1.5	--
Ethene	ug/L	9.2	--	--	--	14	--	0.18	--
Methane	ug/L	17000	--	--	--	16000	--	8400	--
FIELD PARAMETERS									
pH	Standard units	--	4.96	4.99	4.99	6.12	6.33	6.78	6.83
Conductivity	mS/cm	--	3.63	--	--	--	0.624	0.807	0.683
Temperature	deg C	--	19.3	--	--	--	16.1	16.1	18.4

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-2* 11/13/07 Shallow	IW-2 12/05/08 Shallow	MW-13 09/05/06 Shallow	MW-13* 12/04/06 Shallow	MW-13* 03/13/07 Shallow	MW-13* 06/07/07 Shallow	MW-13* 09/07/07 Shallow	MW-13* 11/13/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	90.7	94.4	39	140	12.7	12.9	8.9	9.9
VOCs									
Tetrachloroethene	ug/L	0.91 J	--	--	990 DJ	180	1400 D	3500 D	24 J
Trichloroethene	ug/L	<5	--	--	1900 DJ	1300 DJ	4700 D	17000 DJ	38 J
cis-1,2-Dichloroethene	ug/L	45	--	--	24000 D	40000 D	9200 D	44000 D	200
Vinyl Chloride	ug/L	3.3	--	--	1700 D	4100 D	1800 D	1200 D	79
LIGHT HYDROCARBONS									
Ethane	ug/L	<0.025	--	--	1.1	0.83	0.64	1.5	1
Ethene	ug/L	3.7	--	--	290	520	390	620	97
Methane	ug/L	12000	--	--	11000	14000	7300	13000	6700
FIELD PARAMETERS									
pH	Standard units	6.17	6.51	6.15	6.38	6.27	6.49	6.39	6.28
Conductivity	mS/cm	0.944	--	0.766	0.873	0.630	0.578	0.728	1.053
Temperature	deg C	15.9	--	16.3	14.3	15.7	19.2	19.0	15.8

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-13 03/06/08 Shallow	MW-13* 12/05/08 Shallow	MW-14* 12/04/06 Shallow	MW-14 12/12/2007 Shallow	MW-2 12/12/2007 Shallow	MW-32 02/13/06 Shallow	MW-32 03/30/06 Shallow	MW-32 04/10/06 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	14.3	9.4	1.4	--	--	200	36	48
VOCs									
Tetrachloroethene	ug/L	--	140	<5	<5	<5	--	--	--
Trichloroethene	ug/L	--	560 DJ	<5	0.75 J	<5	--	--	--
cis-1,2-Dichloroethene	ug/L	--	30000 DJ	<5	<5	7.5	--	--	--
Vinyl Chloride	ug/L	--	450 DJ	<1	<1	<1	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	20	--	--	--	--	--	--
Ethene	ug/L	--	250	--	--	--	--	--	--
Methane	ug/L	--	18000	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.31	6.73	6.40	--	--	5.70	5.64	5.19
Conductivity	mS/cm	0.475	--	0.443	--	--	--	0.597	--
Temperature	deg C	17.4	--	14.2	--	--	--	15.92	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-32* 06/01/06 Shallow	MW-32* 08/31/06 Shallow	MW-32 11/13/06 Shallow	MW-32* 12/04/06 Shallow	MW-32* 03/13/07 Shallow	MW-32* 06/07/07 Shallow	MW-32 09/06/07 Shallow	MW-32* 11/13/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	160	150	69	1600	4190	763	1100	412
VOCs									
Tetrachloroethene	ug/L	1.6 J	330 BJ	--	34	20	<10	--	8.3
Trichloroethene	ug/L	32	100	--	130	57	1.6 J	--	12
cis-1,2-Dichloroethene	ug/L	4400 D	20000 D	--	4400 D	1900 D	160	--	910 D
Vinyl Chloride	ug/L	57	46	--	84	100	27	--	59
LIGHT HYDROCARBONS									
Ethane	ug/L	0.043	0.035	--	0.37	--	0.1	--	--
Ethene	ug/L	57	58	--	41	--	96	--	--
Methane	ug/L	12000	9200	--	6200	--	4000	--	--
FIELD PARAMETERS									
pH	Standard units	6.11	5.60	5.83	4.75	4.29	4.79	4.74	5.32
Conductivity	mS/cm	0.836	0.739	--	1.212	2.73	0.789	0.790	0.952
Temperature	deg C	18.9	16.0	--	13.6	15.3	20.2	21.0	16.3

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-32 03/06/08 Shallow	MW-8 03/30/06 Shallow	MW-8 04/10/06 Shallow	MW-8 11/13/06 Shallow	MW-7 03/30/06 Shallow	MW-7* 06/01/06 Shallow	MW-7* 08/31/06 Shallow	MW-7 11/13/06 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	377	140	17	17	53	51	15	18
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	<10	<5	<5	--
Trichloroethene	ug/L	--	--	--	--	<10	<5	<5	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	1300 D	6.4	2.3 J	--
Vinyl Chloride	ug/L	--	--	--	--	60	1.7	3.4	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	<0.025	0.032	0.052	--
Ethene	ug/L	--	--	--	--	55	97	89	--
Methane	ug/L	--	--	--	--	17000	14000	17000	--
FIELD PARAMETERS									
pH	Standard units	5.06	6.40	6.09	6.26	6.01	6.29	6.36	6.68
Conductivity	mS/cm	0.870	0.636	--	--	1.013	1.032	1.006	--
Temperature	deg C	14.2	16.42	--	--	15.35	20.2	15.9	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-7* 12/04/06 Shallow	MW-7 03/13/07 Shallow	MW-7* 06/07/07 Shallow	MW-7 09/06/07 Shallow	MW-7 12/14/07 Shallow	MW-7* 03/06/08 Shallow	MW-7* 06/09/08 Shallow	MW-7 09/08/08 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	200	110	12.3	15.6	--	94.5	134	225
VOCs									
Tetrachloroethene	ug/L	<5	--	26	--	<10	<5	<5	--
Trichloroethene	ug/L	<5	--	2.6 J	--	6.4 J	5.8	2.4 J	--
cis-1,2-Dichloroethene	ug/L	450 D	--	870 D	--	5800 D	8600 D	3500 D	--
Vinyl Chloride	ug/L	120	--	140	--	840 D	930 D	260 D	--
LIGHT HYDROCARBONS									
Ethane	ug/L	0.57	--	--	--	--	0.18	0.29	--
Ethene	ug/L	190	--	--	--	--	340	280	--
Methane	ug/L	19000	--	--	--	--	14000	15000	--
FIELD PARAMETERS									
pH	Standard units	5.89	5.92	6.23	5.86	--	5.96	5.65	5.53
Conductivity	mS/cm	1.514	1.33	0.926	0.716	--	0.696	--	--
Temperature	deg C	16.7	16.2	20.9	20.3	--	16.8	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-7* 12/05/08 Shallow	MW-9 06/07/06 Shallow	MW-9* 12/05/06 Shallow	MW-11 12/14/2007 Shallow	MW-3* 06/01/06 Shallow	MW-3* 12/04/06 Shallow	MW-3* 11/13/07 Shallow	MW-3* 12/05/08 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	219	84	64	--	29	20	13.4	10.9
VOCs									
Tetrachloroethene	ug/L	<5	--	<5	<5	<10	<5	<5	<5
Trichloroethene	ug/L	3 J	--	<5	<5	<10	<5	<5	<5
cis-1,2-Dichloroethene	ug/L	64000 DJ	--	58	24	500 D	0.82 J	<5	<5
Vinyl Chloride	ug/L	7700 DJ	--	89	8.2	<2	1.8	<1	<1
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	0.53	--	--	--	0.26	--
Ethene	ug/L	--	--	340	--	--	--	56	--
Methane	ug/L	--	--	21000	--	--	--	27000	--
FIELD PARAMETERS									
pH	Standard units	6.35	6.00	6.29	--	6.50	6.84	6.57	6.66
Conductivity	mS/cm	--	0.797	1.115	--	0.848	0.897	0.797	--
Temperature	deg C	--	16.1	15.7	--	19.5	14.8	15.7	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-29 03/30/06 Shallow	MW-29* 06/01/06 Shallow	MW-29 09/05/06 Shallow	MW-29* 12/04/06 Shallow	MW-29* 03/13/07 Shallow	MW-29* 06/07/07 Shallow	MW-29* 09/07/07 Shallow	MW-29 12/12/2007 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	25	81	57	36	159	77.2	124	--
VOCs									
Tetrachloroethene	ug/L	--	<5	--	13	<5	<5	<5	<5
Trichloroethene	ug/L	--	<5	--	<10	<5	<5	<5	<5
cis-1,2-Dichloroethene	ug/L	--	94	--	6000 D	450 D	2.2 J	0.90 J	19
Vinyl Chloride	ug/L	--	96	--	760 D	570 D	1	<1	5.7
LIGHT HYDROCARBONS									
Ethane	ug/L	--	11	--	6.5	49	120	51	--
Ethene	ug/L	--	60	--	220	740	19	0.19	--
Methane	ug/L	--	17000	--	19000	19000	18000	23000	--
FIELD PARAMETERS									
pH	Standard units	6.16	6.44	6.42	6.42	6.42	6.22	6.20	--
Conductivity	mS/cm	1.386	1.492	1.082	1.259	1.65	0.847	0.609	--
Temperature	deg C	16.63	20.8	17.1	15.8	16.4	19.5	20.6	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-31 03/30/06 Shallow	MW-31* 06/01/06 Shallow	MW-31* 08/31/06 Shallow	MW-31 12/20/06 Shallow	MW-31* 03/13/07 Shallow	MW-31* 06/07/07 Shallow	MW-31* 09/07/07 Shallow	MW-31* 11/13/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	--	210	130	230	205	157	88	94.8
VOCs									
Tetrachloroethene	ug/L	<10	<10	<5	<5	<5	<5	<5	<5
Trichloroethene	ug/L	<10	<10	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	ug/L	1000 D	470 D	19	3.7 J	32	37	3.8 J	3.1 J
Vinyl Chloride	ug/L	240	180	39	5.6	76	61	4.8	1.5
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	99	140	190	45
Ethene	ug/L	--	--	--	--	200	100	19	0.62
Methane	ug/L	--	--	--	--	24000	19000	19000	16000
FIELD PARAMETERS									
pH	Standard units	6.20	6.35	6.77	6.81	6.49	6.50	6.19	6.29
Conductivity	mS/cm	2.334	1.557	1.324	1.444	1.80	1.073	0.687	1.551
Temperature	deg C	14.12	18.8	16.6	16.6	15.2	18.3	19.6	16.0

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-31* 03/06/08 Shallow	MW-31 06/25/08 Shallow	MW-31* 09/08/08 Shallow	MW-31* 12/05/08 Shallow	MW-4 03/30/06 Shallow	MW-4* 06/01/06 Shallow	MW-4* 12/04/06 Shallow	MW-4 06/07/07 Shallow
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	24.1	--	56	120	1.7	2.5	2.4	0.69 J
VOCs									
Tetrachloroethene	ug/L	<5	<5	<5	<5	--	34	3.7 J	--
Trichloroethene	ug/L	<5	<5	<5	<5	--	5.7	<5	--
cis-1,2-Dichloroethene	ug/L	19	7.6	1.8 J	<5	--	65	11	--
Vinyl Chloride	ug/L	7.2	4.1	<1	<1	--	<1	<1	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	23	26	0.15	--	--	--	--
Ethene	ug/L	--	0.3	0.26	0.038	--	--	--	--
Methane	ug/L	--	14000	14000	80	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.01	--	6.25	6.62	6.36	6.42	6.64	7.09
Conductivity	mS/cm	0.698	--	--	--	0.725	0.401	0.422	0.422
Temperature	deg C	14.9	--	--	--	15.13	17.0	13.8	18.2

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-4* 11/13/07 Shallow	MW-4* 12/05/08 Shallow
	UNITS		
CLASSICAL CHEMISTRY ANALYTES			
Total Organic Carbon	mg/L	0.91 J	1
VOCs			
Tetrachloroethene	ug/L	<5	<5
Trichloroethene	ug/L	<5	<5
cis-1,2-Dichloroethene	ug/L	<5	<5
Vinyl Chloride	ug/L	<1	<1
LIGHT HYDROCARBONS			
Ethane	ug/L	<0.025	--
Ethene	ug/L	0.11	--
Methane	ug/L	5	--
FIELD PARAMETERS			
pH	Standard units	6.75	7.43
Conductivity	mS/cm	0.439	--
Temperature	deg C	15.4	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-10 03/30/06 Intermediate	IW-10 06/07/06 Intermediate	IW-10 09/05/06 Intermediate	IW-10 11/13/06 Intermediate	IW-10 12/04/06 Intermediate	IW-10 03/13/07 Intermediate	IW-10 06/07/07 Intermediate	IW-10 09/06/07 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	1600	1800	1500	1600	1400	1690	1620	2310
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	4.51	4.76	4.83	4.81	4.87	4.98	4.85	4.67
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-10 11/13/07 Intermediate	IW-10 03/06/08 Intermediate	IW-10 06/09/08 Intermediate	IW-10 09/08/08 Intermediate	IW-10 12/05/08 Intermediate	IW-15 03/30/06 Intermediate	IW-15 06/07/06 Intermediate	IW-15 09/05/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	2860	2330	1680	1190	650	1300	1400	1800
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	4.91	5.05	5.89	5.94	6.63	4.15	4.52	4.51
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-15 11/13/06 Intermediate	IW-15 12/04/06 Intermediate	IW-15 03/13/07 Intermediate	IW-15 06/07/07 Intermediate	IW-15 09/06/07 Intermediate	IW-15 11/13/07 Intermediate	IW-15 03/06/08 Intermediate	IW-27 01/24/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	1300	4400	2960	2480	296	2570	2660	950
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	4.81	4.36	4.29	4.51	5.06	4.65	4.88	5.08
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-27 02/13/06 Intermediate	IW-27 03/30/06 Intermediate	IW-27 06/07/06 Intermediate	IW-27 09/05/06 Intermediate	IW-27 12/20/06 Intermediate	IW-27 03/13/07 Intermediate	IW-27 06/07/07 Intermediate	IW-27 09/06/07 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	260	790	350	11	8600	571	2570	349
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.80	5.10	5.04	6.61	--	5.53	4.62	4.61
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-27 11/13/07 Intermediate	IW-27 06/09/08 Intermediate	IW-27 09/08/08 Intermediate	IW-27 12/05/08 Intermediate	IW-25 01/16/06 Intermediate	IW-25 01/24/06 Intermediate	IW-25 01/31/06 Intermediate	IW-25 02/13/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	2290	5190	357	2460	3.8	8.8	4.9	9.4
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	--	--	--	--	--
Ethene	ug/L	--	--	--	--	--	--	--	--
Methane	ug/L	--	--	--	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	4.67	4.42	4.50	4.82	6.02	6.36	6.62	7.5
Conductivity	mS/cm	--	--	--	--	--	--	--	--
Temperature	deg C	--	--	--	--	--	--	--	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-25 03/10/06 Intermediate	IW-25 03/30/06 Intermediate	IW-25 06/07/06 Intermediate	IW-25 06/26/06 Intermediate	IW-25 12/20/06 Intermediate	IW-25 03/13/07 Intermediate	IW-25 06/07/07 Intermediate	IW-25 09/06/07 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	20	16	11	63	130	15.1	117	40.5
VOCs									
Tetrachloroethene	ug/L	--	--	--	--	25000 D	--	--	--
Trichloroethene	ug/L	--	--	--	--	5200 D	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	13000 D	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	1.8 J	--	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	6.8	5.3	--	--	--
Ethene	ug/L	--	--	--	1.7	0.92	--	--	--
Methane	ug/L	--	--	--	17	5500	--	--	--
FIELD PARAMETERS									
pH	Standard units	--	6.09	6.52	6.49	7.08	6.56	6.35	6.19
Conductivity	mS/cm	--	0.390	0.340	0.540	0.633	--	0.468	0.143
Temperature	deg C	--	15.30	15.6	17.0	14.8	--	21.6	20.8

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-20 06/07/06 Intermediate	IW-20 09/05/06 Intermediate	IW-23 09/05/06 Intermediate	IW-23* 12/05/06 Intermediate	IW-23* 06/07/07 Intermediate	IW-23* 11/13/07 Intermediate	IW-23 03/06/08 Intermediate	IW-23 06/09/08 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	22	230	52	640	1110	1240	903	692
VOCs									
Tetrachloroethene	ug/L	--	--	--	18	22	6.1	--	--
Trichloroethene	ug/L	--	--	--	10	7.6 J	<5	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	18000 D	33000 D	28000 D	--	--
Vinyl Chloride	ug/L	--	--	--	8.1	4.5	6.4	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	--	28	<0.025	1.7	--	--
Ethene	ug/L	--	--	--	9.4	0.46	4.1	--	--
Methane	ug/L	--	--	--	4800	16000	22000	--	--
FIELD PARAMETERS									
pH	Standard units	6.39	6.10	6.45	6.45	6.16	6.01	5.91	6.00
Conductivity	mS/cm	0.425	0.643	0.615	1.582	1.533	2.960	2.89	--
Temperature	deg C	15.6	15.9	15.4	16.0	19.8	14.5	16.0	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-23 09/09/08 Intermediate	IW-23* 12/05/08 Intermediate	IW-18* 08/31/06 Intermediate	IW-18* 12/04/06 Intermediate	IW-18* 03/13/07 Intermediate	IW-18* 06/07/07 Intermediate	IW-18[1] 09/07/07 Intermediate	IW-8 09/05/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	726	607	33	180	174	387	341	1.3
VOCs									
Tetrachloroethene	ug/L	--	4.2 J	85000 DB	76000 D	72000 DB	44000 DJ	--	--
Trichloroethene	ug/L	--	3.6 J	14000 D	8100 D	7800 D	8000 D	--	--
cis-1,2-Dichloroethene	ug/L	--	4900 DJ	45000 D	63000 D	47000 D	45000 D	--	--
Vinyl Chloride	ug/L	--	1100 DJ	4.7	5.8	7.3	9.7	--	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	1.6	1.7	2.3	2.8	1.8	--	--
Ethene	ug/L	--	790	1.1	1.1	1.3	1.2	--	--
Methane	ug/L	--	22000	210	1700	760	2800	--	--
FIELD PARAMETERS									
pH	Standard units	--	6.43	6.32	6.36	6.14	6.73	6.25	6.53
Conductivity	mS/cm	--	--	0.601	0.911	0.601	0.626	--	0.086
Temperature	deg C	--	--	16.5	14.0	15.6	20.9	19.0	17.1

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	IW-8* 12/05/06 Intermediate	IW-8 06/07/07 Intermediate	IW-8* 11/13/07 Intermediate	IW-8 12/05/08 Intermediate	MW-13D* 12/04/06 Intermediate	MW-13D* 03/13/07 Intermediate	MW-13D* 06/07/07 Intermediate	MW-13D* 09/07/07 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	2.1	16	30.6	4.7	44	263	312	144
VOCs									
Tetrachloroethene	ug/L	<5	--	<5	--	1.1 J	<10	130	15
Trichloroethene	ug/L	<5	--	<5	--	3.2 J	<10	11	29
cis-1,2-Dichloroethene	ug/L	470 D	--	530 D	--	15000 D	17000 D	16000 D	14000 D
Vinyl Chloride	ug/L	<1	--	60	--	1400 D	990 D	1500 D	1100 D
LIGHT HYDROCARBONS									
Ethane	ug/L	0.24	--	0.14	--	0.51	0.7	0.28	2
Ethene	ug/L	0.16	--	79	--	150	61	100	390
Methane	ug/L	540	--	5500	--	1700	7300	9500	11000
FIELD PARAMETERS									
pH	Standard units	6.83	6.77	6.25	6.95	6.60	6.69	6.13	6.68
Conductivity	mS/cm	0.169	0.164	0.705	--	0.689	0.724	1.117	0.631
Temperature	deg C	15.6	19.5	15.6	--	13.9	15.6	20.1	18.4

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-13D* 11/13/07 Intermediate	MW-13D 03/06/08 Intermediate	MW-13D* 06/09/08 Intermediate	MW-13D 09/29/08 Intermediate	MW-13D* 12/05/08 Intermediate	IW-9* 06/09/08 Intermediate	MW-33 03/30/06 Intermediate	MW-33* 06/01/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	388	330	325	--	151	166	630	350
VOCs									
Tetrachloroethene	ug/L	<5	--	<5	<5	<5	9.7	--	<10
Trichloroethene	ug/L	<5	--	<5	<5	1.9 J	51	--	<10
cis-1,2-Dichloroethene	ug/L	11000 D	--	12	<5	3.2 J	9400 D	--	2400 D
Vinyl Chloride	ug/L	1700 D	--	15	<1	<1	1500 D	--	23
LIGHT HYDROCARBONS									
Ethane	ug/L	0.87	--	4	--	7.6	--	--	0.200
Ethene	ug/L	610	--	610	--	1200	--	--	4.8
Methane	ug/L	22000	--	1500	--	25000	--	--	19000
FIELD PARAMETERS									
pH	Standard units	6.51	6.03	5.92	--	6.47	6.25	--	6.18
Conductivity	mS/cm	1.374	1.584	--	--	--	--	--	1.469
Temperature	deg C	15.3	15.3	--	--	--	--	--	18.3

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-33 09/05/06 Intermediate	MW-33 11/13/06 Intermediate	MW-33* 12/04/06 Intermediate	MW-33* 03/13/07 Intermediate	MW-33* 06/07/07 Intermediate	MW-33* 09/07/07 Intermediate	MW-33* 11/13/07 Intermediate	MW-33 03/06/08 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	100	120	120	468	942	711	444	154
VOCs									
Tetrachloroethene	ug/L	--	--	<10	<5	14	<10	2.8 J	--
Trichloroethene	ug/L	--	--	<10	0.86 J	1.7 J	<10	<5	--
cis-1,2-Dichloroethene	ug/L	--	--	2600 D	1600 D	540 D	310	270 D	--
Vinyl Chloride	ug/L	--	--	54	140	80	47	72	--
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	0.17	--	0.11	0.13	--	--
Ethene	ug/L	--	--	2.1	--	84	120	--	--
Methane	ug/L	--	--	21000	--	18000	18000	--	--
FIELD PARAMETERS									
pH	Standard units	6.23	6.21	6.26	6.10	5.86	5.80	4.95	5.93
Conductivity	mS/cm	1.169	--	1.154	1.58	1.178	0.788	1.816	1.235
Temperature	deg C	16.3	--	13.0	15.1	21.6	19.8	15.2	15.5

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-23 11/13/06 Intermediate	MW-27D 03/30/06 Intermediate	MW-27D* 06/01/06 Intermediate	MW-27D* 08/31/06 Intermediate	MW-27D 11/13/06 Intermediate	MW-27D* 12/04/06 Intermediate	MW-27D* 03/13/07 Intermediate	MW-27D* 06/07/07 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	890	110	62	16	15	320	367	331
VOCs									
Tetrachloroethene	ug/L	--	<5	<10	<10	--	<5	<5	<10
Trichloroethene	ug/L	--	<5	<10	19	--	<5	<5	<10
cis-1,2-Dichloroethene	ug/L	--	3.7 J	270 D	240 D	--	2200 D	8.9	210
Vinyl Chloride	ug/L	--	4 J	160	170 D	--	2300 D	17	250
LIGHT HYDROCARBONS									
Ethane	ug/L	--	<0.025	0.030	0.026	--	0.11	0.14	0.029
Ethene	ug/L	--	320	190	120	--	450	420	120
Methane	ug/L	--	27000	17000	17000	--	18000	22000	16000
FIELD PARAMETERS									
pH	Standard units	4.96	--	5.96	6.15	6.02	5.96	6.14	6.26
Conductivity	mS/cm	--	--	0.908	0.988	--	--	1.56	0.733
Temperature	deg C	--	--	20.0	15.8	--	15.7	15.6	21.8

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-27D* 09/07/07 Intermediate	MW-27D* 06/09/08 Intermediate	MW-28D 12/05/06 Intermediate	MW-28D 09/08/08 Intermediate	MW-28D* 12/05/08 Intermediate	MW-30 03/30/06 Intermediate	MW-30* 06/01/06 Intermediate	MW-30 09/05/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	147	296	29	1440	1180	340	450	610
VOCs									
Tetrachloroethene	ug/L	<5	<5	--	--	<5	<10	<10	--
Trichloroethene	ug/L	<5	<5	--	--	<5	<10	<10	--
cis-1,2-Dichloroethene	ug/L	2.9 J	35	--	--	6100 DJ	4800 D	4800 D	--
Vinyl Chloride	ug/L	5.4	26	--	--	1200 DJ	120	64	--
LIGHT HYDROCARBONS									
Ethane	ug/L	3.1	--	--	--	--	--	0.120	--
Ethene	ug/L	180	--	--	--	--	--	140	--
Methane	ug/L	24000	--	--	--	--	--	18000	--
FIELD PARAMETERS									
pH	Standard units	6.02	6.07	6.33	5.25	5.58	6.20	6.34	6.34
Conductivity	mS/cm	0.713	--	0.726	--	--	2.847	1.622	1.390
Temperature	deg C	19.0	--	16.7	--	--	14.92	18.2	17.0

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-30* 12/04/06 Intermediate	MW-30* 03/13/07 Intermediate	MW-30* 06/07/07 Intermediate	MW-30* 09/07/07 Intermediate	MW-30 12/14/07 Intermediate	MW-16D 03/30/06 Intermediate	MW-16D* 06/01/06 Intermediate	MW-16D* 08/31/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	760	289	45.6	162	--	--	200	390
VOCs									
Tetrachloroethene	ug/L	9.1 J	<10	<5	<10	<5	<10	<10	<5
Trichloroethene	ug/L	<10	<10	<5	<10	<5	<10	<10	<5
cis-1,2-Dichloroethene	ug/L	4500 D	1500 D	17	270	220 D	1500 D	270 D	310 D
Vinyl Chloride	ug/L	240	240	19	190	130	1800 D	1200 D	1700 D
LIGHT HYDROCARBONS									
Ethane	ug/L	0.15	0.64	0.86	0.92	4.6	--	--	--
Ethene	ug/L	110	350	450	430	640	--	--	--
Methane	ug/L	24000	27000	20000	24000	24000	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.34	6.49	6.12	6.34	--	6.34	6.80	6.74
Conductivity	mS/cm	1.923	1.92	0.550	0.435	--	1.152	0.946	1.364
Temperature	deg C	15.2	15.6	19.1	19.8	--	15.07	18.7	16.3

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-16D 12/20/06 Intermediate	MW-16D* 03/13/07 Intermediate	MW-16D* 06/07/07 Intermediate	MW-16D* 09/07/07 Intermediate	MW-16D* 11/13/07 Intermediate	MW-16D* 03/06/08 Intermediate	MW-16D* 12/05/08 Intermediate	MW-34* 06/01/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	620	290	136	10.3	3.8	1.7	13	32
VOCs									
Tetrachloroethene	ug/L	16	<10	<5	<5	<5	<5	<5	<5
Trichloroethene	ug/L	0.83 J	<10	<5	1.4 J	<5	<5	<5	0.98 J
cis-1,2-Dichloroethene	ug/L	420 D	2000 D	45	4.8 J	<5	2 J	<5	11
Vinyl Chloride	ug/L	1400 D	1500 D	92	0.53 J	0.62 J	0.67 J	<1	3.1
LIGHT HYDROCARBONS									
Ethane	ug/L	--	3.3	18	120	57	--	--	--
Ethene	ug/L	--	290	330	0.34	11	--	--	--
Methane	ug/L	--	31000	24000	25000	19000	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.99	6.76	6.66	6.96	6.54	6.44	6.88	6.41
Conductivity	mS/cm	1.692	1.27	0.781	0.157	0.227	0.231	--	0.747
Temperature	deg C	16.4	15.2	18.1	19.8	16.2	15.2	--	20.8

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-34* 12/04/06 Intermediate	MW-34* 11/13/07 Intermediate	MW-34* 03/06/08 Intermediate	MW-34* 06/09/08 Intermediate	MW-34* 09/08/08 Intermediate	MW-34* 12/05/08 Intermediate	MW-35* 06/01/06 Intermediate	MW-35 09/29/06 Intermediate
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	23	365	249	879	174	39.6	110	18
VOCs									
Tetrachloroethene	ug/L	<5	<5	<5	<5	<5	<5	3.3 J	68
Trichloroethene	ug/L	<5	<5	<5	<5	<5	<5	9.7 J	13
cis-1,2-Dichloroethene	ug/L	5.7	920 D	260 D	1900 D	5.8	1.1 J	3200 D	870 D
Vinyl Chloride	ug/L	5.3	760 D	310 D	550 D	5.5	<1	5.2	78
LIGHT HYDROCARBONS									
Ethane	ug/L	--	0.12	1.8 [2]	0.58	2.7	10	--	--
Ethene	ug/L	--	440	660 [2]	540	230	9.5	--	--
Methane	ug/L	--	29000	20000 [2]	19000	22000	1300	--	--
FIELD PARAMETERS									
pH	Standard units	6.71	6.31	6.03	5.95	--	6.73	6.65	6.33
Conductivity	mS/cm	0.879	1.300	1.098	--	--	--	0.571	0.423
Temperature	deg C	14.5	15.7	13.5	--	--	--	17.7	17.5

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-35* 12/04/06 Intermediate	MW-35* 11/13/07 Intermediate	MW-35* 12/05/08 Intermediate	ERM-MW-02 09/29/08 Intermediate	ERM-MW-02* 12/05/08 Intermediate	MW-18D* 06/07/07 Deep	MW-18D* 09/07/07 Deep	MW-18D 12/12/07 Deep
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	150	14.8	0.68 J	12	7.4	1.6	1.5	--
VOCs									
Tetrachloroethene	ug/L	18	<5	<5	<5	<5	58	10 J	<5
Trichloroethene	ug/L	3.9 J	5.2	<5	<5	<5	22	14	1.1 J
cis-1,2-Dichloroethene	ug/L	3100 D	49	1 J	2.6 J	<5	880 D	700 D	34
Vinyl Chloride	ug/L	620 D	19	<1	7.2	3.4 J	1.9 J	450 D	46
LIGHT HYDROCARBONS									
Ethane	ug/L	--	0.1	120	16	16	--	--	--
Ethene	ug/L	--	340	33	520	390	--	--	--
Methane	ug/L	--	1400	28000	25000	29000	--	--	--
FIELD PARAMETERS									
pH	Standard units	6.83	6.54	7.60	6.07	7.02	6.80	6.85	--
Conductivity	mS/cm	0.643	0.502	--	--	--	0.192	0.229	--
Temperature	deg C	13.9	15.6	--	--	--	19.7	19.6	--

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	MW-18D 06/25/08 Deep	MW-18D 09/29/08 Deep	MW-18D* 12/24/08 Deep	MW-19D* 09/07/07 Deep	MW-19D 12/14/07 Deep	Diffusion Well 01/03/06 Deep	Diffusion Well* 08/31/06 Deep	Diffusion Well* 12/05/06 Deep
	UNITS								
CLASSICAL CHEMISTRY ANALYTES									
Total Organic Carbon	mg/L	--	--	2.8	1.3	--	--	1.7	2.1
VOCs									
Tetrachloroethene	ug/L	<5	<5	<5	19	39	11	3300 DB	30
Trichloroethene	ug/L	<5	<5	0.7 J	14	7.8	4.8 J	430 DJ	27
cis-1,2-Dichloroethene	ug/L	1500 D	78	640 DJ	200	240 D	100	7700 D	4000 D
Vinyl Chloride	ug/L	1100 D	100 D	1100 DJ	1.1 J	<1	<1	9.9	11
LIGHT HYDROCARBONS									
Ethane	ug/L	--	--	0.71	--	--	--	--	--
Ethene	ug/L	--	--	1700	--	--	--	--	--
Methane	ug/L	--	--	2500	--	--	--	--	--
FIELD PARAMETERS									
pH	Standard units	--	--	--	6.24	--	--	7.98	7.05
Conductivity	mS/cm	--	--	--	0.094	--	--	0.158	0.113
Temperature	deg C	--	--	--	19.0	--	--	16.1	16.4

See footnotes on last page.

Table 2. Concentrations of TOC, VOCs, and Light Hydrocarbons in Groundwater Samples, 25 Melville Park Road Site, Melville, New York.

Parameters	Well ID: / Date Sampled: / Zone:	Diffusion Well* 06/07/07 Deep	Diffusion Well* 09/07/07 Deep	Diffusion Well* 11/13/07 Deep	Diffusion Well* 12/05/08 Deep
	UNITS				
CLASSICAL CHEMISTRY ANALYTES					
Total Organic Carbon	mg/L	5.2	3.7	2.3	1.4
VOCs					
Tetrachloroethene	ug/L	6	22	87	14
Trichloroethene	ug/L	4.8 J	3.9 J	9.4	3.6 J
cis-1,2-Dichloroethene	ug/L	1800 D	790 D	120	25
Vinyl Chloride	ug/L	23	7.1	<1	<1
LIGHT HYDROCARBONS					
Ethane	ug/L	--	--	--	11
Ethene	ug/L	--	--	--	4.2
Methane	ug/L	--	--	--	7900
FIELD PARAMETERS					
pH	Standard units	6.21	6.78	6.03	7.42
Conductivity	mS/cm	0.102	0.150	0.254	--
Temperature	deg C	20.1	19.3	15.6	--

See footnotes on last page.

mg/L	Milligrams per liter.
mS/cm	MilliSiemens per centimeter.
deg C	Degrees Celsius.
ng/L	Nanograms per liter.
--	Not analyzed.
ug/L	Micrograms per liter.
J	Estimated value.
B	Detected between IDL and CRDL for inorganics (metals and classical chemistry analytes).
B	Detected in associated method blank for organics (VOCs).
D	Detected at secondary dilution.
IDL	Instrument Detection Limit.
CRDL	Contract Required Detection Limit.
*	TOC samples collected on date indicated. VOC and light hydrocarbons samples collected on dates indicated in Table 1.
1	VOC sample not collected from well due to the presence of NAPL.
2	The March 24, 2008 light hydrocarbons sample collected from MW-34 was inadvertently labeled as MW-31.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-18D 06/19/03	MW-18D 10/08/03	MW-18D 02/02/04	MW-18D 05/05/04
Acetone	50		<20	<20	<10	<10
Benzene	1		<10	<10	<5	<5
Bromodichloromethane	50		<10	<10	<5	<5
Bromoform	50		<10	<10	<5	<5
Bromomethane	5		<10	<10	<5	<5
2-Butanone (MEK)	50		<20	<20	<10	<10
Carbon Disulfide	-		<10	<10	<5	<5
Carbon Tetrachloride	5		<10	<10	<5	<5
Chlorobenzene	5		<10	<10	<5	<5
Chloroethane	5		<10	<10	<5	<5
Chloroform	7		<10	<10	<5	<5
Chloromethane	-		<10	<10	<5	<5
Dibromochloromethane	50		<10	<10	<5	<5
1,1-Dichloroethane	5		<10	<10	<5	<5
1,2-Dichloroethane	0.6		<10	<10	<5	<5
1,1-Dichloroethene	5		<10	<10	<5	<5
1,2-Dichloropropane	1		<10	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<5
Ethylbenzene	5		<10	<10	<5	<5
2-Hexanone	50		<20	<20	<10	<10
Methylene Chloride	5		<10	<10	<5	<5
4-Methyl-2-Pentanone (MIBK)	-		<20	<20	<10	<10
Styrene	5		<10	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<5
Tetrachloroethene	5		20	21	9	17
Toluene	5		<10	<10	<5	<5
1,1,1-Trichloroethane	5		<10	<10	<5	<5
1,1,2-Trichloroethane	1		<10	<10	<5	<5
Trichloroethene	5		2 J	3 J	1 J	2 J
Vinyl Chloride	2		<2	<2	<1	<1
Xylenes (total)	5		<10	<10	<5	<5
cis-1 2-Dichloroethene	5		180	170	160	140
trans-1 2-Dichloroethene	5		<10	<10	<5	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-18D 08/04/04	MW-18D 12/03/04	MW-18D 04/08/05	MW-18D 09/06/05
Acetone	50		<20	<10	<10 J	<20
Benzene	1		<10	<5	<5 J	<10
Bromodichloromethane	50		<10	<5	<5 J	<10
Bromoform	50		<10	<5	<5 J	<10
Bromomethane	5		<10	<5	<5 J	<10
2-Butanone (MEK)	50		<20	<10	<10 J	<20
Carbon Disulfide	-		<10	<5	<5 J	<10
Carbon Tetrachloride	5		<10	<5	<5 J	<10
Chlorobenzene	5		<10	<5	<5 J	<10
Chloroethane	5		<10	<5	<5 J	<10
Chloroform	7		<10	<5	<5 J	<10
Chloromethane	-		<10	<5	<5 J	<10
Dibromochloromethane	50		<10	<5	<5 J	<10
1,1-Dichloroethane	5		<10	<5	<5 J	<10
1,2-Dichloroethane	0.6		<10	<5	<5 J	<10
1,1-Dichloroethene	5		<10	<5	<5 J	<10
1,2-Dichloropropane	1		<10	<5	<5 J	<10
cis-1,3-Dichloropropene	0.4		<10	<5	<5 J	<10
trans-1,3-Dichloropropene	0.4		<10	<5	<5 J	<10
Ethylbenzene	5		<10	<5	<5 J	<10
2-Hexanone	50		<20	<10	<10 J	<20
Methylene Chloride	5		<10	<5	<5 J	< 10
4-Methyl-2-Pentanone (MIBK)	-		<20	<10	<10 J	<20
Styrene	5		<10	<5	<5 J	<10
1,1,2,2-Tetrachloroethane	5		<10	<5	<5 J	<10
Tetrachloroethene	5		**30**	**55**	**81 J**	**38**
Toluene	5		<10	<5	<5 J	<10
1,1,1-Trichloroethane	5		<10	2.4 J	**9.3 J**	**12**
1,1,2-Trichloroethane	1		<10	<5	<5 J	<10
Trichloroethene	5		4 J	**7.9**	**20 J**	**76**
Vinyl Chloride	2		<2	<1	<1 J	<2
Xylenes (total)	5		<10	<5	<5 J	<10
cis-1 2-Dichloroethene	5		**170**	**180**	**180 J**	**200**
trans-1 2-Dichloroethene	5		<10	<5	<5 J	<10

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-18D 01/03/06	MW-18D 06/16/06	MW-18D 09/28/06	MW-18D 12/19/06
Acetone	50		<10	<20	<10	<20
Benzene	1		<5	<10	<5	<10
Bromodichloromethane	50		<5	<10	<5	<10
Bromoform	50		<5	<10	<5	<10
Bromomethane	5		<5	<10	<5	<10
2-Butanone (MEK)	50		<10	3.1 J	<10	2.8 J
Carbon Disulfide	-		<5	<10	<5	<10
Carbon Tetrachloride	5		<5	<10	<5	<10
Chlorobenzene	5		<5	<10	<5	<10
Chloroethane	5		<5	<10	<5	<10
Chloroform	7		<5	<10	<5	<10
Chloromethane	-		<5	<10	<5	<10
Dibromochloromethane	50		<5	<10	<5	<10
1,1-Dichloroethane	5		<5	<10	1.4 J	<10
1,2-Dichloroethane	0.6		<5	<10	<5	<10
1,1-Dichloroethene	5		<5	<10	<5	<10
1,2-Dichloropropane	1		<5	<10	<5	<10
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<10
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<10
Ethylbenzene	5		<5	<10	<5	<10
2-Hexanone	50		<10	<20	<10	<20
Methylene Chloride	5		<5	<10	<5	<10 B
4-Methyl-2-Pentanone (MIBK)	-		<10	<20	<10	<20
Styrene	5		<5	<10	<5	<10
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<10
Tetrachloroethene	5		55	130	270 D	170
Toluene	5		<5	<10	<5	<10
1,1,1-Trichloroethane	5		6.8	13	22	22
1,1,2-Trichloroethane	1		<5	<10	<5	<10
Trichloroethene	5		38	58	86	79
Vinyl Chloride	2		<1	<2	2.2	2.2
Xylenes (total)	5		<5	<10	<5	<10
cis-1 2-Dichloroethene	5		120	130	160	140
trans-1 2-Dichloroethene	5		<5	<10	0.84 J	<10

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-18D 06/21/07	MW-18D 09/25/07	MW-18D 12/12/07	MW-18D 06/25/08
Acetone	50		<20	<20	<10	<10
Benzene	1		<10	<10	<5	<5
Bromodichloromethane	50		<10	<10	<5	<5
Bromoform	50		<10	<10	<5	<5
Bromomethane	5		<10	<10	<5	<5
2-Butanone (MEK)	50		<20	<20	14	<10
Carbon Disulfide	-		<10	<10	<5	<5
Carbon Tetrachloride	5		<10	<10	<5	<5
Chlorobenzene	5		<10	<10	<5	<5
Chloroethane	5		<10	<10	<5	<5
Chloroform	7		<10	<10	<5	<5
Chloromethane	-		<10	<10	<5	<5
Dibromochloromethane	50		<10	<10	<5	<5
1,1-Dichloroethane	5		2 J	8.3 J	18	19
1,2-Dichloroethane	0.6		<10	<10	<5	<5
1,1-Dichloroethene	5		<10	0.99 J	<5	<5
1,2-Dichloropropane	1		<10	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<10	<5	<5
Ethylbenzene	5		<10	<10	<5	0.39 J
2-Hexanone	50		<20	<20	<10	<10
Methylene Chloride	5		<10	<10	<5	<5
4-Methyl-2-Pentanone (MIBK)	-		<20	<20	<10	<10
Styrene	5		<10	<10	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<10	<5	<5
Tetrachloroethene	5		58	10 J	<5	<5
Toluene	5		<10	1.5 J	3.6 J	5.5
1,1,1-Trichloroethane	5		17	28	33	26
1,1,2-Trichloroethane	1		<10	<10	<5	<5
Trichloroethene	5		22	14	1.1 J	<5
Vinyl Chloride	2		1.9 J	450 D	46	1100 D
Xylenes (total)	5		<10	<10	3 J	9.6
cis-1 2-Dichloroethene	5		880 D	700 D	34	1500 D
trans-1 2-Dichloroethene	5		<10	2.5 J	16	31

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-18D 09/29/08	MW-18D 12/24/08	MW-19D 06/20/03	MW-19D 04/02/04
Acetone	50		2.1 J	3 J	<10	<10
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
2-Butanone (MEK)	50		5 J	6.3 J	<10	<10
Carbon Disulfide	-		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		<5	<5	<5	<5
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		**14**	**16 J**	<5	<5
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	**6.2 J**	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	0.94 J	<5	<5
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
4-Methyl-2-Pentanone (MIBK)	-		<10	<10	<10	<10
Styrene	5		<5	<5 J	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		<5	<5	**37**	**11**
Toluene	5		2.2 J	4.4 J	<5	<5
1,1,1-Trichloroethane	5		**14**	**21 J**	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	0.7 J	0.8 J	<5
Vinyl Chloride	2		**100 D**	**1100 DJ**	<1	<1
Xylenes (total)	5		4.4 J	**9 J**	<5	<5
cis-1 2-Dichloroethene	5		**78**	**640 DJ**	3 J	4 J
trans-1 2-Dichloroethene	5		**12**	**18 J**	<5	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-19D 08/04/04	MW-19D 12/03/04	MW-19D 04/11/05	MW-19D 09/06/05
Acetone	50		<10	29	<10	<10
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
2-Butanone (MEK)	50		<10	<10	<10	<10
Carbon Disulfide	-		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		<5	<5	<5	<5
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		<5	<5	<5	<5
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	<5	<5	<5
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
4-Methyl-2-Pentanone (MIBK)	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		11	21	16	11
Toluene	5		<5	<5	<5	<5
1,1,1-Trichloroethane	5		<5	<5	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		<5	1.8 J	0.73 J	1.6 J
Vinyl Chloride	2		<1	<1	<1	<1
Xylenes (total)	5		<5	<5	<5	<5
cis-1 2-Dichloroethene	5		5 J	8.6	15	53
trans-1 2-Dichloroethene	5		<5	<5	<5	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-19D 01/03/06	MW-19D 06/16/06	MW-19D 12/19/06	MW-19D 06/21/07
Acetone	50		<10	<10	<20	<10
Benzene	1		<5	<5	<10	<5
Bromodichloromethane	50		<5	<5	<10	<5
Bromoform	50		<5	<5	<10	<5
Bromomethane	5		<5	<5	<10	<5
2-Butanone (MEK)	50		<10	3.0 J	<20	<10
Carbon Disulfide	-		<5	<5	<10	<5
Carbon Tetrachloride	5		<5	<5	<10	<5
Chlorobenzene	5		<5	<5	<10	<5
Chloroethane	5		<5	<5	<10	<5
Chloroform	7		<5	<5	<10	<5
Chloromethane	-		<5	<5	<10	<5
Dibromochloromethane	50		<5	<5	<10	<5
1,1-Dichloroethane	5		<5	<5	<10	<5
1,2-Dichloroethane	0.6		<5	<5	<10	<5
1,1-Dichloroethene	5		<5	<5	<10	<5
1,2-Dichloropropane	1		<5	<5	<10	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<10	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<10	<5
Ethylbenzene	5		<5	<5	<10	<5
2-Hexanone	50		<10	<10	<20	<10
Methylene Chloride	5		<5	<5	<10 B	<5
4-Methyl-2-Pentanone (MIBK)	-		<10	<10	<20	<10
Styrene	5		<5	<5	<10	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<10	<5
Tetrachloroethene	5		3.2 J	9.7	16	13
Toluene	5		<5	0.69 J	<10	<5
1,1,1-Trichloroethane	5		<5	<5	<10	<5
1,1,2-Trichloroethane	1		<5	<5	<10	<5
Trichloroethene	5		1 J	2.5 J	3.9 J	4.9 J
Vinyl Chloride	2		<1	<1	<2	<1
Xylenes (total)	5		<5	<5	<10	<5
cis-1 2-Dichloroethene	5		34	77	120	140
trans-1 2-Dichloroethene	5		<5	<5	<10	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-19D 09/25/07	MW-19D 12/14/07	MW-19D 12/24/08	MW-20D 06/20/03
Acetone	50		<20	<10	<10	<10
Benzene	1		<10	<5	<5	<5
Bromodichloromethane	50		<10	<5	<5	<5
Bromoform	50		<10	<5	<5	<5
Bromomethane	5		<10	<5	<5	<5
2-Butanone (MEK)	50		<20	<10	<10	<10
Carbon Disulfide	-		<10	<5	<5	<5
Carbon Tetrachloride	5		<10	<5	<5	<5
Chlorobenzene	5		<10	<5	<5	<5
Chloroethane	5		<10	<5	<5	<5
Chloroform	7		<10	<5	<5	<5
Chloromethane	-		<10	<5	<5	<5
Dibromochloromethane	50		<10	<5	<5	<5
1,1-Dichloroethane	5		<10	<5	<5	<5
1,2-Dichloroethane	0.6		<10	<5	<5	<5
1,1-Dichloroethene	5		<10	<5	<5	<5
1,2-Dichloropropane	1		<10	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<10	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<10	<5	<5	<5
Ethylbenzene	5		<10	<5	<5	<5
2-Hexanone	50		<20	<10	<10	<10
Methylene Chloride	5		<10	<5	<5 B	<5
4-Methyl-2-Pentanone (MIBK)	-		<20	<10	<10	<10
Styrene	5		<10	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<5	<5	<5
Tetrachloroethene	5		19	39	<5	11
Toluene	5		<10	<5	<5	<5
1,1,1-Trichloroethane	5		<10	<5	<5	<5
1,1,2-Trichloroethane	1		<10	<5	<5	<5
Trichloroethene	5		14	7.8	<5	<5
Vinyl Chloride	2		1.1 J	<1	28	<1
Xylenes (total)	5		<10	<5	<5	<5
cis-1 2-Dichloroethene	5		200	240 D	34	2 J
trans-1 2-Dichloroethene	5		0.63 J	<5	0.76 J	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-20D 10/08/03	MW-20D 02/02/04	MW-20D 05/05/04	MW-20D 08/04/04
Acetone	50		<10	<10	<10	<10
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
2-Butanone (MEK)	50		<10	<10	<10	<10
Carbon Disulfide	-		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		<5	<5	<5	<5
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		<5	<5	<5	<5
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	<5	<5	<5
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
4-Methyl-2-Pentanone (MIBK)	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		7	8	11	2 J
Toluene	5		<5	<5	<5	<5
1,1,1-Trichloroethane	5		<5	<5	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		0.9 J	<5	<5	<5
Vinyl Chloride	2		<1	<1	<1	<1
Xylenes (total)	5		<5	<5	<5	<5
cis-1 2-Dichloroethene	5		2	3 J	6	4 J
trans-1 2-Dichloroethene	5		<5	<5	<5	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-20D 12/03/04	MW-20D 04/08/05	MW-20D 09/06/05	MW-20D 01/03/06
Acetone	50		<10	<10 J	<10	<10
Benzene	1		<5	<5 J	<5	<5
Bromodichloromethane	50		<5	<5 J	<5	<5
Bromoform	50		<5	<5 J	<5	<5
Bromomethane	5		<5	<5 J	<5	<5
2-Butanone (MEK)	50		<10	<10 J	<10	<10
Carbon Disulfide	-		<5	<5 J	<5	<5
Carbon Tetrachloride	5		<5	<5 J	<5	<5
Chlorobenzene	5		<5	<5 J	<5	<5
Chloroethane	5		<5	<5 J	<5	<5
Chloroform	7		<5	<5 J	<5	<5
Chloromethane	-		<5	<5 J	<5	<5
Dibromochloromethane	50		<5	<5 J	<5	<5
1,1-Dichloroethane	5		<5	<5 J	<5	<5
1,2-Dichloroethane	0.6		<5	<5 J	<5	<5
1,1-Dichloroethene	5		<5	<5 J	<5	<5
1,2-Dichloropropane	1		<5	<5 J	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5 J	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5 J	<5	<5
Ethylbenzene	5		<5	<5 J	<5	<5
2-Hexanone	50		<10	<10 J	<10	<10
Methylene Chloride	5		<5	<5 J	0.46 J	<5
4-Methyl-2-Pentanone (MIBK)	-		<10	<10 J	<10	<10
Styrene	5		<5	<5 J	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5 J	<5	<5
Tetrachloroethene	5		21	12 J	6.2	2.4 J
Toluene	5		<5	<5 J	<5	<5
1,1,1-Trichloroethane	5		<5	<5 J	<5	<5
1,1,2-Trichloroethane	1		<5	<5 J	<5	<5
Trichloroethene	5		1.3 J	1.1 J	1.6 J	0.88 J
Vinyl Chloride	2		<1	<1	1	<1
Xylenes (total)	5		<5	<5 J	<5	<5
cis-1 2-Dichloroethene	5		6.9	17 J	39	32
trans-1 2-Dichloroethene	5		<5	<5 J	<5	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-20D 06/16/06	MW-20D 12/19/06	MW-20D 06/21/07	MW-20D 12/12/07
Acetone	50		<10	<10	<10	<10
Benzene	1		<5	<5	<5	<5
Bromodichloromethane	50		<5	<5	<5	<5
Bromoform	50		<5	<5	<5	<5
Bromomethane	5		<5	<5	<5	<5
2-Butanone (MEK)	50		2.7 J	2.8 J	<10	<10
Carbon Disulfide	-		<5	<5	<5	<5
Carbon Tetrachloride	5		<5	<5	<5	<5
Chlorobenzene	5		<5	<5	<5	<5
Chloroethane	5		<5	<5	<5	<5
Chloroform	7		<5	<5	<5	<5
Chloromethane	-		<5	<5	<5	<5
Dibromochloromethane	50		<5	<5	<5	<5
1,1-Dichloroethane	5		<5	<5	<5	<5
1,2-Dichloroethane	0.6		<5	<5	<5	<5
1,1-Dichloroethene	5		<5	<5	<5	<5
1,2-Dichloropropane	1		<5	<5	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<5
Ethylbenzene	5		<5	<5	<5	<5
2-Hexanone	50		<10	<10	<10	<10
Methylene Chloride	5		<5	<5	<5	<5
4-Methyl-2-Pentanone (MIBK)	-		<10	<10	<10	<10
Styrene	5		<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<5
Tetrachloroethene	5		8.3	8.3	5.7	6.3
Toluene	5		0.31 J	<5	<5	<5
1,1,1-Trichloroethane	5		<5	<5	<5	<5
1,1,2-Trichloroethane	1		<5	<5	<5	<5
Trichloroethene	5		1.7 J	1.5 J	0.86 J	0.59 J
Vinyl Chloride	2		<1	<1	<1	<1
Xylenes (total)	5		<5	<5	<5	<5
cis-1 2-Dichloroethene	5		44	42	34	64
trans-1 2-Dichloroethene	5		<5	<5	<5	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: / Sample Date:	MW-20D 12/24/08	Diffusion Well 01/03/06	Diffusion Well 09/28/06	Diffusion Well 12/19/06
Acetone	50		<10	<10	<10	<20
Benzene	1		<5	<5	0.74 J	<10
Bromodichloromethane	50		<5	<5	<5	<10
Bromoform	50		<5	<5	<5	<10
Bromomethane	5		<5	<5	<5	<10
2-Butanone (MEK)	50		<10	<10	<10	<20
Carbon Disulfide	-		<5	<5	<5	<10
Carbon Tetrachloride	5		<5	<5	<5	<10
Chlorobenzene	5		<5	<5	<5	<10
Chloroethane	5		<5	<5	7.1	2.3 J
Chloroform	7		<5	<5	<5	<10
Chloromethane	-		<5	<5	<5	<10
Dibromochloromethane	50		<5	<5	<5	<10
1,1-Dichloroethane	5		<5	<5	40	16
1,2-Dichloroethane	0.6		<5	<5	<5	<10
1,1-Dichloroethene	5		<5	<5	24	6.4 J
1,2-Dichloropropane	1		<5	<5	<5	<10
cis-1,3-Dichloropropene	0.4		<5	<5	<5	<10
trans-1,3-Dichloropropene	0.4		<5	<5	<5	<10
Ethylbenzene	5		<5	<5	1.8 J	<10
2-Hexanone	50		<10	<10	<10	<20
Methylene Chloride	5		<5 B	<5	<5	<10
4-Methyl-2-Pentanone (MIBK)	-		<10	<10	<10	<20
Styrene	5		<5	<5	<5	<10
1,1,2,2-Tetrachloroethane	5		<5	<5	<5	<10
Tetrachloroethene	5		1.4 J	11	3300 DB	30
Toluene	5		<5	<5	19	3.9 J
1,1,1-Trichloroethane	5		<5	<5	100	<10
1,1,2-Trichloroethane	1		<5	<5	<5	<10
Trichloroethene	5		<5	4.8 J	430 DJ	27
Vinyl Chloride	2		<1	<1	9.9	11
Xylenes (total)	5		<5	<5	27	4.0 J
cis-1 2-Dichloroethene	5		10	100	7700 D	4000 D
trans-1 2-Dichloroethene	5		<5	0.72 J	15	4.7 J

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 3. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Deep Zone Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Compound (Units in ug/L)	NYSDEC TOGS (1.1.1) SGV (ug/L)	Sample ID: Sample Date:	Diffusion Well 06/21/07	Diffusion Well 09/25/07	Diffusion Well 12/14/2007	Diffusion Well 12/24/2008
Acetone	50		<10	<20	<10	1.3 J
Benzene	1		0.47 J	0.49 J	0.5 J	<5
Bromodichloromethane	50		<5	<10	<5	<5
Bromoform	50		<5	<10	<5	<5
Bromomethane	5		<5	<10	<5	<5
2-Butanone (MEK)	50		<10	<20	<10	<10
Carbon Disulfide	-		<5	<10	<5	<5
Carbon Tetrachloride	5		<5	<10	<5	<5
Chlorobenzene	5		<5	<10	<5	<5
Chloroethane	5		0.93 J	<10	<5	<5
Chloroform	7		<5	<10	<5	<5
Chloromethane	-		<5	<10	<5	<5
Dibromochloromethane	50		<5	<10	<5	<5
1,1-Dichloroethane	5		**11**	**5.5 J**	<5	<5
1,2-Dichloroethane	0.6		<5	<10	<5	<5
1,1-Dichloroethene	5		4.1 J	<10	<5	<5
1,2-Dichloropropane	1		<5	<10	<5	<5
cis-1,3-Dichloropropene	0.4		<5	<10	<5	<5
trans-1,3-Dichloropropene	0.4		<5	<10	<5	<5
Ethylbenzene	5		<5	<10	<5	<5
2-Hexanone	50		<10	<20	<10	<10
Methylene Chloride	5		<5	<10	<5	<5
4-Methyl-2-Pentanone (MIBK)	-		<10	<20	<10	<10
Styrene	5		<5	<10	<5	<5 J
1,1,2,2-Tetrachloroethane	5		<5	<10	<5	<5
Tetrachloroethene	5		**6**	**22**	**87**	**14**
Toluene	5		3.1 J	1.8 J	0.63 J	<5
1,1,1-Trichloroethane	5		<5	<10	<5	<5
1,1,2-Trichloroethane	1		<5	<10	<5	<5
Trichloroethene	5		4.8 J	3.9 J	**9.4**	3.6 J
Vinyl Chloride	2		**23**	**7.1**	<1	<1
Xylenes (total)	5		3.9 J	3.0 J	0.75 J	<5
cis-1 2-Dichloroethene	5		**1800 D**	**790 D**	**120**	**25**
trans-1 2-Dichloroethene	5		0.92 J	<10	<5	<5

ug/L	Micrograms per liter.
D	Detected at secondary dilution.
J	Estimated value.
B	Detected in associated method blank.
NYSDEC	New York State Department of Environmental Conservation.
TOGS	Technical and Operational Guidance Series.
SGV	Ambient Water Quality Standards and Guidance Values.
-	Not available.
	Compound concentration equal to or exceeds SGV.

Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-1						IW-9					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
1/9/03		53.85	ND	58.42	58.60	0.00	0.18	52.41	51.80	ND	89.32	0.61	0.00
1/28/03		53.75	ND	58.19	58.60	0.00	0.41	52.35	51.70	ND	89.32	0.35	0.00
2/12/03		53.83	53.79	58.48	58.60	0.04	0.12	52.24	51.74	ND	89.32	0.50	0.00
2/26/03		53.28	ND	58.35	58.60	0.00	0.25	51.52	51.25	ND	89.32	0.27	0.00
3/12/03		52.92	52.90	ND	58.60	0.02	0.00	51.10	50.86	ND	89.32	0.24	0.00
3/26/03		52.81	52.80	ND	58.60	0.01	0.00	51.06	50.77	ND	89.32	0.29	0.00
4/10/03		52.81	ND	58.55	58.60	0.00	0.05	50.93	50.73	ND	89.32	0.20	0.00
4/24/03		52.77	52.76	58.55	58.60	0.01	0.05	51.04	50.72	ND	89.32	0.32	0.00
5/21/03		53.02	ND	58.45	58.60	0.00	0.15	51.50	51.00	ND	89.32	0.50	0.00
6/26/03		50.97	ND	ND	58.60	0.00	0.00	49.32	48.94	ND	89.32	0.38	0.00
7/30/03		50.82	ND	58.42	58.60	0.00	0.18	49.37	48.75	ND	89.32	0.62	0.00
8/27/03		50.98	ND	58.45	58.60	0.00	0.15	49.52	48.92	ND	89.32	0.60	0.00
9/24/03		51.40	51.38	ND	58.60	0.02	0.00	49.90	49.31	ND	89.32	0.59	0.00
10/29/03		51.78	51.70	58.46	58.60	0.08	0.14	50.08	49.64	ND	89.32	0.44	0.00
11/26/03		51.34	Trace	58.35	58.60	Trace	0.25	49.97	49.27	ND	89.32	0.70	0.00
12/31/03		51.20	ND	58.28	58.60	0.00	0.32	49.53	49.14	ND	89.32	0.39	0.00

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Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-1						IW-9					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
1/29/04		51.42	ND	58.33	58.72	0.00	0.39	49.72	49.36	ND	89.32	0.36	0.00
2/27/04		50.98	Trace	58.52	58.80	Trace	0.28	49.03	48.92	ND	89.38	0.11	0.00
3/26/04		51.19	ND	58.56	58.75	0.00	0.19	49.18	49.16	ND	89.38	0.02	0.00
4/23/04		50.64	ND	58.58	58.75	0.00	0.17	48.65	48.62	ND	89.35	0.03	0.00
5/21/04		50.29	ND	58.60	58.75	0.00	0.15	48.27	48.25	ND	89.30	0.02	0.00
6/25/04		50.37	50.36	58.60	58.75	0.01	0.15	48.33	48.32	ND	89.30	0.01	0.00
7/27/04		50.61	ND	58.62	58.75	0.00	0.13	48.60	48.59	ND	89.35	0.01	0.00
9/1/04		50.68	Trace	58.67	58.75	Trace	0.08	48.65	Trace	ND	89.35	Trace	0.00
9/30/04		49.25	ND	58.58	58.75	0.00	0.17	47.28	ND	ND	89.30	0.00	0.00
10/28/04		49.45	49.44	58.60	58.75	0.01	0.15	47.38	ND	ND	89.30	0.00	0.00
11/30/04		49.40	49.39	58.60	58.75	0.01	0.15	47.34	ND	ND	89.30	0.00	0.00
12/30/04		49.60	Trace	58.60	58.75	Trace	0.15	47.55	ND	ND	89.30	0.00	0.00
2/24/05		49.52	ND	58.65	58.75	0.00	0.10	47.53	ND	ND	89.20	0.00	0.00
4/29/05		48.34	ND	58.50	58.75	0.00	0.25	46.32	ND	ND	89.10	0.00	0.00
6/30/05		48.84	48.83	58.60	58.75	0.01	0.15	46.82	ND	ND	89.05	0.00	0.00
8/29/05		49.74	49.69	58.65	58.75	0.05	0.10	47.69	ND	ND	89.05	0.00	0.00
10/27/05		46.80	ND	58.70	58.75	0.00	0.05	44.76	ND	ND	89.05	0.00	0.00
12/28/05		46.75	ND	58.60	58.75	0.00	0.15	44.70	ND	ND	89.05	0.00	0.00

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Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-1						IW-9					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
3/8/06		46.08	ND	ND	58.75	0.00	0.00	44.02	ND	ND	88.95	0.00	0.00
5/1/06		45.90	ND	ND	58.75	0.00	0.00	43.86	ND	ND	88.95	0.00	0.00
7/14/06		45.63	ND	ND	58.75	0.00	0.00	43.58	ND	ND	88.95	0.00	0.00
9/28/06		46.58	46.57	ND	58.80	0.01	0.00	44.51	ND	ND	88.95	0.00	0.00
12/4/06		45.91	ND	ND	58.70	0.00	0.00	43.83	ND	ND	88.95	0.00	0.00
6/28/07		45.55	45.50	ND	58.72	0.05	0.00	43.45	ND	ND	89.00	0.00	0.00
7/5/07		45.44	ND	ND	58.80	0.00	0.00	NM	NM	NM	NM	NM	NM
9/19/07		45.18	ND	ND	58.75	0.00	0.00	43.20	ND	ND	89.05	0.00	0.00
12/19/07		46.22	ND	57.98	58.80	0.00	0.82	44.12	44.10	ND	89.03	0.02	0.00
3/24/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/11/08		46.26	Trace	57.90	58.78	Trace	0.88	43.31	43.24	ND	89.03	0.07	0.00
5/9/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/12/08		45.92	ND	57.85	58.78	0.00	0.93	43.88	ND	ND	88.88	0.00	0.00
7/17/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/22/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/29/08		46.00	Trace	57.85	58.75	Trace	0.90	43.98	ND	ND	88.95	0.00	0.00
10/29/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/8/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/29/08		45.60	ND	ND	58.80	0.00	0.00	43.54	ND	ND	88.90	0.00	0.00

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Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	MW-13						IW-3					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
1/9/03		52.10	ND	ND	58.20	0.00	0.00	51.72	ND	ND	59.80	0.00	0.00
1/28/03		51.98	ND	ND	58.20	0.00	0.00	51.63	ND	ND	59.80	0.00	0.00
2/12/03		52.02	ND	ND	58.20	0.00	0.00	51.66	ND	ND	59.80	0.00	0.00
2/26/03		51.51	ND	ND	58.20	0.00	0.00	51.14	ND	ND	59.80	0.00	0.00
3/12/03		51.14	ND	ND	58.20	0.00	0.00	50.76	ND	ND	59.80	0.00	0.00
3/26/03		51.03	ND	ND	58.20	0.00	0.00	50.67	ND	ND	59.80	0.00	0.00
4/10/03		51.01	ND	ND	58.20	0.00	0.00	50.65	ND	ND	59.80	0.00	0.00
4/24/03		51.00	ND	ND	58.20	0.00	0.00	50.68	ND	ND	59.80	0.00	0.00
5/21/03		51.24	ND	ND	58.20	0.00	0.00	50.87	ND	ND	59.80	0.00	0.00
6/26/03		49.18	ND	ND	58.20	0.00	0.00	48.81	ND	ND	59.80	0.00	0.00
7/30/03		49.02	ND	ND	58.20	0.00	0.00	48.65	ND	ND	59.80	0.00	0.00
8/27/03		49.19	Trace	ND	58.20	Trace	0.00	48.81	ND	ND	59.80	0.00	0.00
9/24/03		49.58	ND	ND	58.20	0.00	0.00	49.21	ND	ND	59.80	0.00	0.00
10/29/03		49.92	Trace	ND	58.20	Trace	0.00	49.53	ND	ND	59.80	0.00	0.00
11/26/03		49.53	Trace	ND	58.20	Trace	0.00	49.16	ND	ND	59.80	0.00	0.00
12/31/03		49.43	Trace	ND	58.20	Trace	0.00	49.05	49.04	ND	59.80	0.01	0.00

Footnotes on last page.

Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	MW-13						IW-3					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
1/29/04		49.64	49.63	ND	58.20	0.01	0.00	49.29	Trace	ND	59.80	Trace	0.00
2/27/04		49.20	49.19	ND	57.90	0.01	0.00	48.82	ND	ND	59.80	0.00	0.00
3/26/04		49.45	49.38	ND	57.90	0.07	0.00	49.04	49.03	ND	59.80	0.01	0.00
4/23/04		48.85	48.84	ND	57.90	0.01	0.00	48.47	ND	ND	59.80	0.00	0.00
5/21/04		48.51	48.49	ND	57.90	0.02	0.00	48.13	ND	ND	59.85	0.00	0.00
6/25/04		48.59	48.50	ND	57.90	0.09	0.00	48.22	48.19	ND	59.80	0.03	0.00
7/27/04		48.86	48.80	ND	57.90	0.06	0.00	48.45	48.44	ND	59.80	0.01	0.00
9/1/04		48.92	48.86	ND	57.90	0.06	0.00	48.51	48.50	ND	59.80	0.01	0.00
9/30/04		47.45	ND	ND	57.90	0.00	0.00	47.07	ND	ND	59.60	0.00	0.00
10/28/04		47.63	ND	ND	57.90	0.00	0.00	47.28	ND	ND	59.80	0.00	0.00
11/30/04		47.59	ND	ND	57.90	0.00	0.00	47.22	ND	ND	59.80	0.00	0.00
12/30/04		47.80	ND	ND	57.90	0.00	0.00	47.43	Trace	ND	59.80	Trace	0.00
2/24/05		47.73	Trace	ND	57.90	Trace	0.00	47.36	ND	ND	59.80	0.00	0.00
4/29/05		46.55	Trace	ND	57.90	Trace	0.00	46.18	ND	ND	59.80	0.00	0.00
6/30/05		47.02	ND	ND	57.90	0.00	0.00	46.66	ND	ND	59.80	0.00	0.00
8/29/05		47.89	ND	ND	57.90	0.00	0.00	47.54	ND	ND	59.70	0.00	0.00
10/27/05		45.00	Trace	ND	57.90	0.00	0.00	44.63	ND	ND	59.70	0.00	0.00
12/28/05		44.95	ND	ND	57.90	0.00	0.00	44.58	ND	ND	59.70	0.00	0.00

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Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	MW-13						IW-3					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
3/8/06		44.29	ND	ND	57.90	0.00	0.00	43.92	ND	ND	59.70	0.00	0.00
5/1/06		44.11	ND	ND	57.90	0.00	0.00	43.75	ND	ND	59.70	0.00	0.00
7/14/06		43.83	ND	ND	57.90	0.00	0.00	43.46	ND	ND	59.70	0.00	0.00
9/28/06		44.77	ND	ND	57.90	0.00	0.00	44.40	ND	ND	59.70	0.00	0.00
12/4/06		44.10	ND	ND	57.90	0.00	0.00	43.74	ND	ND	59.70	0.00	0.00
6/28/07		43.70	ND	ND	57.90	0.00	0.00	43.32	ND	ND	59.70	0.00	0.00
7/5/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/19/07		43.32	ND	ND	57.90	0.00	0.00	42.95	ND	ND	59.70	0.00	0.00
12/19/07		44.40	ND	ND	57.90	0.00	0.00	44.00	ND	ND	59.70	0.00	0.00
3/24/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/11/08		43.49	43.47	ND	57.90	0.02	0.00	43.16	43.13	ND	59.70	0.03	0.00
5/9/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/13/08		44.14	ND	ND	57.90	0.00	0.00	43.78	ND	ND	59.70	0.00	0.00
7/17/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/22/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/29/08		44.21	ND	ND	57.80	0.00	0.00	43.84	ND	ND	59.70	0.00	0.00
10/29/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/8/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/29/08		43.79	ND	ND	57.80	0.00	0.00	43.48	ND	ND	59.90	0.00	0.00

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Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	MW-15			IW-25					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
1/9/03		51.42	ND	57.84	NI	NI	NI	NI	NI	NI
1/28/03		51.25	ND	57.84	NI	NI	NI	NI	NI	NI
2/12/03		51.45	ND	57.84	NI	NI	NI	NI	NI	NI
2/26/03		50.89	ND	57.84	NI	NI	NI	NI	NI	NI
3/12/03		50.48	ND	57.84	NI	NI	NI	NI	NI	NI
3/26/03		50.45	ND	57.84	NI	NI	NI	NI	NI	NI
4/10/03		50.43	ND	57.84	NI	NI	NI	NI	NI	NI
4/24/03		50.44	ND	57.84	NI	NI	NI	NI	NI	NI
5/21/03		50.70	ND	57.84	NI	NI	NI	NI	NI	NI
6/26/03		48.62	ND	57.84	NI	NI	NI	NI	NI	NI
7/30/03		48.50	ND	57.84	NI	NI	NI	NI	NI	NI
8/27/03		48.57	ND	57.84	NI	NI	NI	NI	NI	NI
9/24/03		49.00	ND	57.84	NI	NI	NI	NI	NI	NI
10/29/03		49.20	ND	57.84	NM	NM	NM	NM	NM	NM
11/26/03		48.91	ND	57.84	NM	NM	NM	NM	NM	NM
12/31/03		48.80	ND	57.84	NM	NM	NM	NM	NM	NM

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Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	MW-15 Depth to Water (ft btoc)	MW-15 Depth to LNAPL (ft btoc)	MW-15 Total Depth (ft btoc)	IW-25 Depth to Water (ft btoc)	IW-25 Depth to LNAPL (ft btoc)	IW-25 Depth to DNAPL (ft btoc)	IW-25 Total Depth (ft btoc)	IW-25 LNAPL Thickness (feet)	IW-25 DNAPL Thickness (feet)
1/29/04		49.04	ND	57.84	NM	NM	NM	NM	NM	NM
2/27/04		48.59	ND	57.84	NM	NM	NM	NM	NM	NM
3/26/04		48.77	ND	57.84	NM	NM	NM	NM	NM	NM
4/23/04		48.22	ND	57.84	NM	NM	NM	NM	NM	NM
5/21/04		47.87	ND	57.84	NM	NM	NM	NM	NM	NM
6/25/04		47.95	ND	57.84	NM	NM	NM	NM	NM	NM
7/27/04		48.20	ND	57.84	NM	NM	NM	NM	NM	NM
9/1/04		48.27	ND	57.84	NM	NM	NM	NM	NM	NM
9/30/04		46.81	ND	57.84	NM	NM	NM	NM	NM	NM
10/28/04		47.01	ND	57.84	NM	NM	NM	NM	NM	NM
11/30/04		46.96	ND	57.84	NM	NM	NM	NM	NM	NM
12/30/04		47.18	ND	57.84	NM	NM	NM	NM	NM	NM
2/24/05		47.12	ND	57.84	NM	NM	NM	NM	NM	NM
4/29/05		45.92	ND	57.84	NM	NM	NM	NM	NM	NM
6/30/05		46.41	ND	57.84	NM	NM	NM	NM	NM	NM
8/29/05		47.28	ND	57.84	NM	NM	NM	NM	NM	NM
10/27/05		44.36	ND	57.84	NM	NM	NM	NM	NM	NM
12/28/05		44.32	ND	57.84	NM	NM	NM	NM	NM	NM

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Table 4. Fluid-Level Gauging Measurements in Monitoring Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	MW-15			IW-25					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
3/8/06		43.66	ND	57.84	NM	NM	NM	NM	NM	NM
5/1/06		43.48	ND	57.84	NM	NM	NM	NM	NM	NM
7/14/06		43.18	ND	57.84	NM	NM	NM	NM	NM	NM
9/28/06		44.15	ND	57.84	NM	NM	NM	NM	NM	NM
12/4/06		43.45	ND	57.84	NM	NM	NM	NM	NM	NM
6/28/07		43.65	ND	57.84	NM	NM	NM	NM	NM	NM
7/5/07		43.04	ND	57.84	NM	NM	NM	NM	NM	NM
9/18/07		42.82	ND	57.84	NM	NM	NM	NM	NM	NM
12/19/07		43.79	ND	57.84	NM	NM	NM	NM	NM	NM
3/24/08		NM	NM	NM	48.55	48.06	NM	NM	0.49	NM
4/11/08		42.76	ND	57.84	48.62	48.02	NM	NM	0.60	NM
5/9/08		NM	NM	NM	NM	NM	NM	NM	NM	NM
6/13/08		42.44	ND	NM	NM	NM	NM	NM	NM	NM
6/17/08		NM	NM	NM	49.35	48.61	NM	NM	0.74	NM
7/17/08		NM	NM	NM	NM	NM	NM	NM	NM	NM
8/22/08		NM	NM	NM	NM	NM	NM	NM	NM	NM
9/29/08		43.51	ND	NM	50.05	48.82	NM	NM	1.23	NM
10/29/08		NM	NM	NM	NM	NM	NM	NM	NM	NM
12/8/08		NM	NM	NM	NM	NM	NM	NM	NM	NM
12/29/08		43.20	ND	57.84	49.62	48.37	NM	NM	1.25	NM

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DNAPL	Dense Non-Aqueous Phase Liquid.
LNAPL	Light Non-Aqueous Phase Liquid.
ft btoc	Feet below top of casing.
ND	Not Detected.
NM	Not measured.
NI	Not installed.
Note:	During each gauging event, the wells are gauged for the presence of both DNAPL and LNAPL.

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Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-17						IW-18					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
10/29/03		51.90	ND	ND	69.20	0.00	0.00	52.28	ND	ND	99.00	0.00	0.00
11/26/03		51.56	ND	ND	69.00	0.00	0.00	51.93	Trace	NM*	NM*	Trace	NM*
12/31/03		51.44	ND	ND	69.00	0.00	0.00	51.82	ND	ND	98.85	0.00	0.00
1/29/04		51.64	ND	ND	68.98	0.00	0.00	52.01	ND	ND	98.80	0.00	0.00
2/27/04		51.21	ND	ND	69.07	0.00	0.00	51.58	Trace	ND	98.85	Trace	0.00
3/26/04		51.43	ND	ND	69.07	0.00	0.00	51.81	ND	ND	98.80	0.00	0.00
4/23/04		NM	NM	NM	NM	NM	NM	51.27	Trace	ND	98.80	Trace	0.00
5/21/04		NM	NM	NM	NM	NM	NM	50.90	Trace	ND	98.70	Trace	0.00
6/25/04		50.60	ND	ND	69.07	0.00	0.00	50.92	Trace	ND	98.70	Trace	0.00
7/27/04		NM	NM	NM	NM	NM	NM	51.23	Trace	ND	98.70	Trace	0.00
9/1/04		NM	NM	NM	NM	NM	NM	51.28	Trace	ND	98.50	Trace	0.00
9/30/04		49.49	ND	ND	69.07	0.00	0.00	49.90	ND	ND	98.50	0.00	0.00
10/28/04		NM	NM	NM	NM	NM	NM	50.01	ND	ND	98.50	0.00	0.00
11/30/04		NM	NM	NM	NM	NM	NM	49.97	ND	ND	98.40	0.00	0.00
12/30/04		NM	NM	NM	NM	NM	NM	50.18	ND	ND	98.20	0.00	0.00

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Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-17						IW-18					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
2/24/05		NM	NM	NM	NM	NM	NM	50.09	ND	ND	98.20	0.00	0.00
4/29/05		NM	NM	NM	NM	NM	NM	48.94	ND	ND	98.20	0.00	0.00
6/30/05		NM	NM	NM	NM	NM	NM	49.42	ND	ND	96.50	0.00	0.00
8/29/05		NM	NM	NM	NM	NM	NM	50.31	ND	ND	96.50	0.00	0.00
10/27/05		NM	NM	NM	NM	NM	NM	47.36	ND	ND	96.50	0.00	0.00
12/28/05		NM	NM	NM	NM	NM	NM	47.32	ND	95.60	96.05	0.00	0.15
3/8/06		46.28	ND	ND	69.05	0.00	0.00	46.65	ND	ND	95.40	0.00	0.00
5/1/06		46.12	ND	ND	69.05	0.00	0.00	NM	NM	NM	NM	NM	NM
7/14/06		45.83	ND	ND	69.00	0.00	0.00	46.23	ND	ND	95.40	0.00	0.00
9/28/06		46.79	ND	ND	69.00	0.00	0.00	47.16	Trace	ND	95.35	Trace	0.00
12/4/06		46.10	ND	ND	68.65	0.00	0.00	46.50	ND	ND	94.90	0.00	0.00
6/28/07		NM	NM	NM	NM	NM	NM	46.60	46.05	ND	94.00	0.55	0.00
7/5/07		NM	NM	NM	NM	NM	NM	46.07	46.05	ND	94.00	0.02	0.00
9/18/07		NM	NM	NM	NM	NM	NM	48.79	45.78	ND	93.88	3.01	0.00
9/19/07		NM	NM	NM	NM	NM	NM	46.20	45.90	ND	93.88	0.30	0.00

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Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-17						IW-18					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
9/25/07		NM	NM	NM	NM	NM	NM	46.91	46.09	ND	93.77	0.82	0.00
10/17/07		NM	NM	NM	NM	NM	NM	47.94	46.61	ND	93.72	1.33	0.00
11/13/07		NM	NM	NM	NM	NM	NM	48.17	46.71	ND	93.70	1.46	0.00
12/19/07		46.41	ND	ND	68.46	0.00	0.00	50.00	46.72	ND	93.70	3.28	0.00
4/11/08		45.53	ND	ND	68.50	0.00	0.00	72.75	45.38	ND	93.70	27.37	0.00
5/9/08		NM	NM	NM	NM	NM	NM	51.32	46.04	NM	NM	5.28	NM
6/12/08		46.18	ND	ND	68.20	0.00	0.00	53.10	46.41	ND	93.46	6.69	0.00
7/17/08		NM	NM	NM	NM	NM	NM	54.20	46.75	ND	93.45	7.45	0.00
8/22/08		NM	NM	NM	NM	NM	NM	53.60	46.43	ND	93.45	7.17	0.00
9/29/08		46.26	ND	ND	68.12	0.00	0.00	53.65	46.40	ND	93.30	7.25	0.00
10/29/08		NM	NM	NM	NM	NM	NM	52.10	46.62	ND	93.30	5.48	0.00
12/8/08		NM	NM	NM	NM	NM	NM	53.29	46.93	NM	NM	6.36	NM
12/29/08		45.87	ND	ND	68.24	0.00	0.00	49.60	46.12	ND	93.30	3.48	0.00

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Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-19						IW-20					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
10/29/03		51.73	ND	ND	69.50	0.00	0.00	52.23	ND	ND	99.40	0.00	0.00
11/26/03		51.38	ND	ND	69.40	0.00	0.00	51.88	ND	NM*	NM*	0.00	NM*
12/31/03		51.24	ND	ND	69.45	0.00	0.00	51.74	ND	ND	99.72	0.00	0.00
1/29/04		51.47	ND	ND	69.30	0.00	0.00	51.97	ND	ND	99.73	0.00	0.00
2/27/04		51.02	ND	ND	69.44	0.00	0.00	51.52	ND	ND	99.70	0.00	0.00
3/26/04		51.24	ND	ND	69.41	0.00	0.00	51.75	ND	ND	99.63	0.00	0.00
4/23/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
5/21/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/25/04		50.43	50.40	ND	69.41	0.03	0.00	50.91	ND	98.20	99.63	0.00	1.43
7/2/04		NM	NM	NM	NM	NM	NM	51.01	ND	98.20	99.60	0.00	1.40
7/9/04		NM	NM	NM	NM	NM	NM	51.09	Trace	97.95	99.40	Trace	1.45
7/16/04		NM	NM	NM	NM	NM	NM	50.90	50.89	98.05	99.30	0.01	1.25
7/27/04		50.68	50.65	ND	69.41	0.03	0.00	51.22	51.18	97.90	99.25	0.04	1.35
8/17/04		NM	NM	NM	NM	NM	NM	51.03	50.93	97.92	99.15	0.10	1.23
9/1/04		50.75	50.71	ND	69.43	0.04	0.00	51.29	51.23	98.03	99.00	0.06	0.97
9/30/04		49.30	ND	ND	69.43	0.00	0.00	49.88	49.84	98.20	98.80	0.04	0.60
10/28/04		49.46	ND	ND	69.43	0.00	0.00	49.96	49.95	98.20	98.50	0.01	0.30
11/30/04		49.41	ND	ND	69.43	0.00	0.00	49.92	49.91	Trace	98.50	0.01	---
12/30/04		49.63	ND	ND	69.43	0.00	0.00	50.12	Trace	ND	98.50	Trace	0.00

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Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-19						IW-20					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
2/24/05		49.56	ND	ND	69.43	0.00	0.00	50.06	50.02	ND	98.50	0.04	0.00
4/29/05		48.38	ND	ND	69.43	0.00	0.00	48.91	48.87	ND	98.50	0.04	0.00
6/30/05		48.89	ND	ND	69.43	0.00	0.00	49.39	49.35	ND	98.50	0.04	0.00
8/29/05		49.72	ND	ND	69.43	0.00	0.00	50.25	50.23	ND	98.50	0.02	0.00
10/27/05		46.81	ND	ND	69.43	0.00	0.00	47.31	47.30	ND	98.50	0.01	0.00
12/28/05		46.76	ND	ND	69.43	0.00	0.00	47.26	ND	Trace	98.40	0.00	Trace
3/8/06		46.10	ND	ND	69.43	0.00	0.00	46.60	ND	ND	98.40	0.00	0.00
5/1/06		45.95	ND	ND	69.43	0.00	0.00	46.44	ND	ND	98.40	0.00	0.00
7/14/06		45.67	ND	ND	69.43	0.00	0.00	46.18	ND	ND	98.40	0.00	0.00
9/28/06		46.59	ND	ND	69.53	0.00	0.00	47.12	ND	ND	98.40	0.00	0.00
12/4/06		45.90	ND	ND	69.40	0.00	0.00	46.40	ND	ND	98.20	0.00	0.00
6/28/07		45.50	ND	ND	69.40	0.00	0.00	46.08	46.02	ND	98.20	0.06	0.00
7/5/07		NM	NM	NM	NM	NM	NM	46.03	45.96	ND	98.40	0.07	0.00
9/18/07		45.21	ND	ND	69.40	0.00	0.00	45.71	ND	ND	98.21	0.00	0.00
9/19/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

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Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-19						IW-20					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
9/25/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
10/17/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/13/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/19/07		46.15	ND	ND	69.30	0.00	0.00	48.20	46.56	ND	98.25	1.64	0.00
4/11/08		45.48	ND	ND	69.10	0.00	0.00	48.70	45.72	ND	98.25	2.98	0.00
5/9/08		NM	NM	NM	NM	NM	NM	46.74	46.50	NM	NM	0.24	NM
6/12/08		46.46	ND	ND	69.15	0.00	0.00	47.12	46.42	ND	98.22	0.70	0.00
7/17/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/22/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/29/08		46.00	ND	ND	69.12	0.00	0.00	47.49	46.51	ND	98.20	0.98	0.00
10/29/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/8/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/29/08		45.62	ND	ND	69.05	0.00	0.00	46.61	46.08	ND	98.20	0.53	0.00

Footnotes on last page.

Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-21						IW-22					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
10/29/03		52.05	ND	ND	69.00	0.00	0.00	52.10	ND	68.65	69.10	0.00	0.45
11/26/03		51.69	ND	ND	68.95	0.00	0.00	51.73	ND	ND	69.05	0.00	0.00
12/31/03		51.57	ND	ND	69.00	0.00	0.00	51.60	ND	ND	69.10	0.00	0.00
1/29/04		51.77	ND	ND	69.00	0.00	0.00	51.81	Trace	ND	69.20	Trace	0.00
2/27/04		51.32	ND	ND	69.00	0.00	0.00	51.37	ND	ND	69.16	0.00	0.00
3/26/04		51.53	ND	ND	69.00	0.00	0.00	51.59	Trace	ND	69.16	Trace	0.00
4/23/04		NM	NM	NM	NM	NM	NM	51.03	ND	ND	69.10	0.00	0.00
5/21/04		NM	NM	NM	NM	NM	NM	50.69	ND	ND	69.10	0.00	0.00
6/25/04		50.70	ND	ND	69.00	0.00	0.00	50.75	Trace	ND	69.15	Trace	0.00
7/27/04		NM	NM	NM	NM	NM	NM	51.01	Trace	ND	69.10	Trace	0.00
9/1/04		NM	NM	NM	NM	NM	NM	51.06	Trace	ND	69.10	Trace	0.00
9/30/04		49.58	ND	ND	69.00	0.00	0.00	49.65	ND	ND	69.10	0.00	0.00
10/28/04		NM	NM	NM	NM	NM	NM	49.80	ND	ND	69.10	0.00	0.00
11/30/04		NM	NM	NM	NM	NM	NM	49.77	ND	ND	69.10	0.00	0.00
12/30/04		NM	NM	NM	NM	NM	NM	49.98	ND	ND	69.10	0.00	0.00

Footnotes on last page.

Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-21						IW-22					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
2/24/05		NM	NM	NM	NM	NM	NM	49.90	ND	ND	69.10	0.00	0.00
4/29/05		NM	NM	NM	NM	NM	NM	48.73	ND	ND	69.10	0.00	0.00
6/30/05		NM	NM	NM	NM	NM	NM	49.21	ND	ND	69.10	0.00	0.00
8/29/05		NM	NM	NM	NM	NM	NM	50.08	ND	ND	69.10	0.00	0.00
10/27/05		NM	NM	NM	NM	NM	NM	47.18	ND	ND	69.10	0.00	0.00
12/28/05		NM	NM	NM	NM	NM	NM	47.12	ND	ND	69.10	0.00	0.00
3/8/06		46.38	ND	ND	68.40	0.00	0.00	46.46	ND	ND	69.10	0.00	0.00
5/1/06		NA	NA	NA	NA	NA	NA	46.30	ND	ND	69.10	0.00	0.00
7/14/06		45.92	ND	ND	68.40	0.00	0.00	46.02	ND	ND	69.10	0.00	0.00
9/28/06		46.89	ND	ND	68.40	0.00	0.00	46.95	Trace	ND	69.10	Trace	0.00
12/4/06		46.20	ND	ND	68.30	0.00	0.00	46.28	ND	ND	69.00	0.00	0.00
6/28/07		NM	NM	NM	NM	NM	NM	45.90	ND	ND	69.02	0.00	0.00
7/5/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/18/07		NM	NM	NM	NM	NM	NM	45.58	ND	ND	69.04	0.00	0.00
9/19/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Footnotes on last page.

Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-21						IW-22					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
9/25/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
10/17/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/13/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/19/07		46.41	ND	ND	68.40	0.00	0.00	46.52	ND	ND	69.04	0.00	0.00
4/11/08		45.55	ND	ND	68.30	0.00	0.00	45.62	ND	ND	69.04	0.00	0.00
5/9/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/12/08		46.23	ND	ND	68.18	0.00	0.00	46.29	ND	ND	69.05	0.00	0.00
7/17/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/22/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/29/08		46.28	ND	ND	68.20	0.00	0.00	46.42	ND	ND	69.00	0.00	0.00
10/29/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/8/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/29/08		45.85	ND	ND	68.24	0.00	0.00	45.99	ND	ND	69.00	0.00	0.00

Footnotes on last page.

Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-23						Former Diffusion Well					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
10/29/03		51.88	ND	ND	100.00	0.00	0.00	NM*	NM*	NM*	NM*	NM*	NM*
11/26/03		51.50	ND	NM*	NM*	0.00	NM*	NM*	NM*	NM*	NM*	NM*	NM*
12/31/03		51.35	ND	ND	100.15	0.00	0.00	51.77	ND	ND	113.50	0.00	0.00
1/29/04		51.59	ND	ND	100.22	0.00	0.00	NM	NM	NM	NM	NM	NM
2/27/04		51.15	ND	ND	100.30	0.00	0.00	NM	NM	NM	NM	NM	NM
3/26/04		51.40	ND	ND	100.25	0.00	0.00	NM	NM	NM	NM	NM	NM
4/23/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
5/21/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/25/04		50.55	ND	ND	100.20	0.00	0.00	NM	NM	NM	NM	NM	NM
7/27/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/1/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/30/04		49.46	ND	ND	100.20	0.00	0.00	NM	NM	NM	NM	NM	NM
10/28/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/30/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/30/04		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Footnotes on last page.

Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-23						Former Diffusion Well					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
2/24/05		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/29/05		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/30/05		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/29/05		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
10/27/05		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/28/05		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
3/8/06		46.21	ND	ND	100.20	0.00	0.00	NM	NM	NM	NM	NM	NM
5/1/06		46.10	ND	ND	100.20	0.00	0.00	NM	NM	NM	NM	NM	NM
7/14/06		45.82	ND	ND	100.25	0.00	0.00	NM	NM	NM	NM	NM	NM
9/28/06		46.77	ND	ND	100.25	0.00	0.00	NM	NM	NM	NM	NM	NM
12/4/06		46.10	ND	ND	100.25	0.00	0.00	46.40	ND	NM	NM	0.00	NM
6/28/07		NM	NM	NM	NM	NM	NM	46.02	ND	ND	112.90	0.00	0.00
7/5/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/18/07		NM	NM	NM	NM	NM	NM	45.85	ND	ND	113.00	0.00	0.00
9/19/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Footnotes on last page.

Table 5. Fluid-Level Gauging Measurements in Indoor Wells, 25 Melville Park Road Site, Melville, New York.

Date:	Well ID:	IW-23						Former Diffusion Well					
		Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	Depth to DNAPL (ft btoc)	Total Depth (ft btoc)	LNAPL Thickness (feet)	DNAPL Thickness (feet)
9/25/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
10/17/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/13/07		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/19/07		46.45	ND	ND	100.11	0.00	0.00	46.80	ND	ND	113.00	0.00	0.00
4/11/08		45.64	ND	ND	100.11	0.00	0.00	45.78	ND	ND	113.00	0.00	0.00
5/9/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/13/08		46.22	ND	ND	100.15	0.00	0.00	46.48	ND	NM	NM	0.00	NM
7/17/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/22/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/29/08		46.34	ND	ND	100.15	0.00	0.00	46.57	ND	NM	NM	0.00	NM
10/29/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/8/08		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/29/08		45.86	ND	ND	100.11	0.00	0.00	46.13	ND	NM	NM	0.00	NM

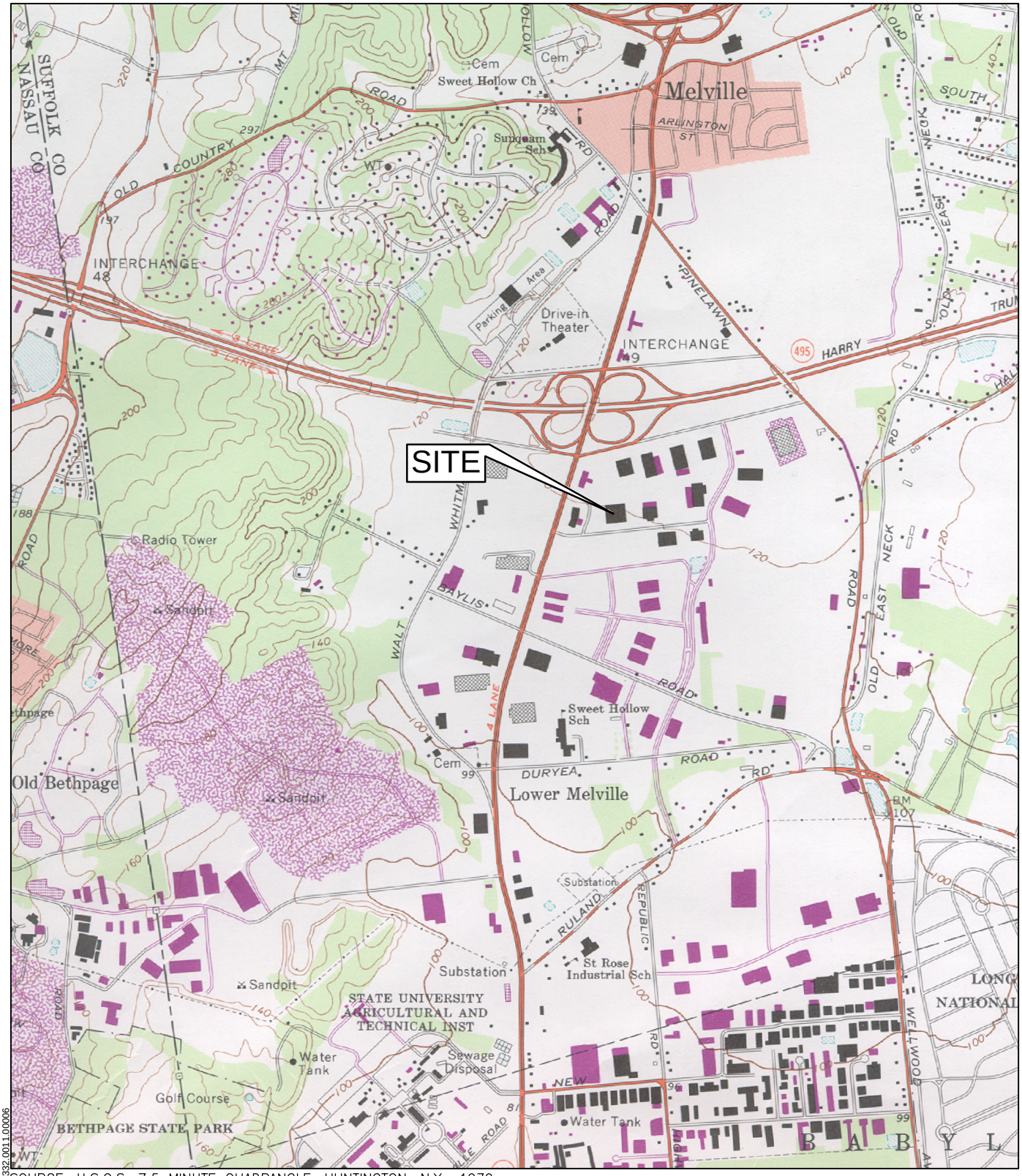
DNAPL Dense Non-Aqueous Phase Liquid.
LNAPL Light Non-Aqueous Phase Liquid.
ft btoc Feet below top of casing.
ND Not detected.
NM Not measured.
NA Not accessible.
NM* Not measured - Interface meter available on this day could not achieve total depths in wells.
Notes: 1) Ventilation fans are operated in the indoor work area during NAPL gauging and recovery activities.

Table 6. Summary of NAPL Recovery Efforts, 25 Melville Park Road Site, Melville, New York.

Well ID:	IW-1	IW-3	IW-9	IW-18	IW-19	IW-20	IW-22	IW-25	MW-13	MW-25D	Total Gallons Recovered
NAPL Recovered by CDM Between March 1999 and April 2001 (Gallons)	NA	0	NA	NI	NI	NI	NI	NI	0	0	174.5
NAPL Recovered by ARCADIS Between May 2001 and September 2008 (Gallons)	50.88	57.56	66.95	23.27	0.97	17.14	0.86	1.5	12.75	4.5	236.38
NAPL Recovered Between September and December 2008 (Gallons)	0	0	0	3	0	0.5	0	0.25	0	0	3.75
										Total NAPL Recovery Between March 1999 and December 2008	414.63

NAPL Non-Aqueous Phase Liquid.
CDM Camp Dresser & McKee.
NA Not applicable. CDM reported Total Gallons Bailed from wells IW-1 and IW-9 in their monthly progress reports to the NYSDEC.
Total Gallons Recovered represents the sum of NAPL recovered from IW-1 and IW-9 between March 1999 and April 2001.
NI Well was not installed during CDM NAPL recovery efforts.

Notes: Total Gallons Recovered represents a combination of NAPL and water.
100 gallons disposed of by RGM in June 2000. Approximately 50 gallons disposed of by RGM on December 15, 2000.
Approximately 55 gallons disposed of by Clean Harbors on February 21, 2002.
Approximately 53 gallons disposed of by Clean Harbors on September 12, 2002.
Approximately 53 gallons disposed of by Clean Harbors on February 14, 2003.
Approximately 42 gallons disposed of by Allstate Power Vac on June 4, 2004.
Approximately 50 gallons disposed of by Onyx Environmental Services on August 25, 2005.
Approximately 55 gallons disposed of by Veolia Environmental Services on June 27, 2008.
Some of the disposal volumes noted include monitoring well purge water in addition to NAPL and water collected during NAPL recovery efforts.



SOURCE: U.S.G.S. 7.5 MINUTE QUADRANGLE, HUNTINGTON, N.Y., 1979

0 2000' 4000'

SCALE IN FEET

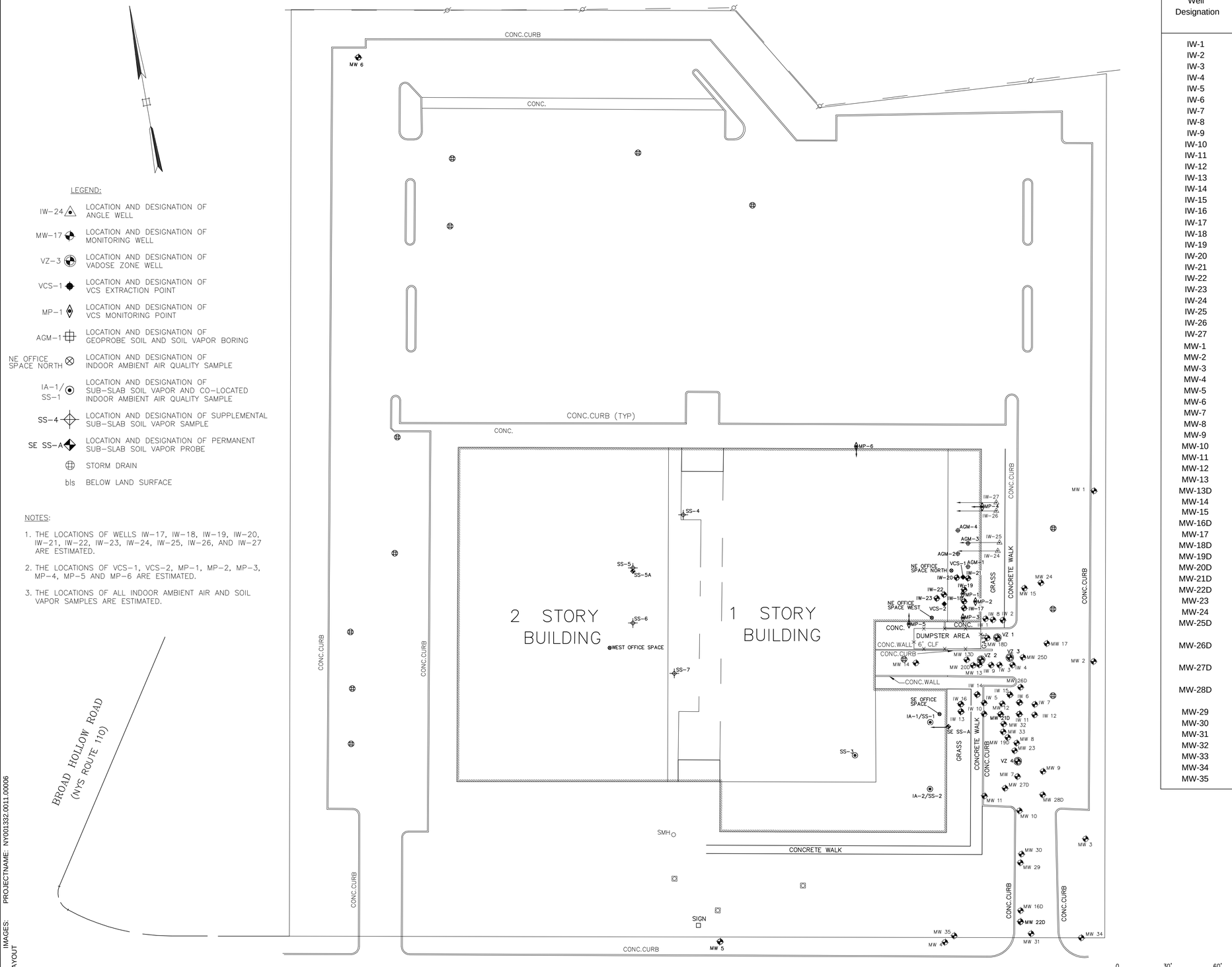
N

25 MELVILLE PARK ROAD
MELVILLE, NEW YORK

SITE LOCATION

ARCADIS

FIGURE
1



Well Designation	Well Diameter (inches)	Screened Interval (feet bls)	Total Depth (feet bls)	Vertical Zone Designation
IW-1	2	45 to 60	60	Shallow Zone
IW-2	2	45 to 60	60	Shallow Zone
IW-3	2	45 to 60	60	Shallow Zone
IW-4	2	45 to 60	60	Shallow Zone
IW-5	2	45 to 60	60	Shallow Zone
IW-6	2	45 to 60	60	Shallow Zone
IW-7	2	45 to 60	60	Shallow Zone
IW-8	2	75 to 90	90	Intermediate Zone
IW-9	2	75 to 90	90	Intermediate Zone
IW-10	2	75 to 90	90	Intermediate Zone
IW-11	2	75 to 90	90	Intermediate Zone
IW-12	2	75 to 90	90	Intermediate Zone
IW-13	2	75 to 90	90	Intermediate Zone
IW-14	2	60 to 75	75	Intermediate Zone
IW-15	2	60 to 75	75	Intermediate Zone
IW-16	2	45 to 60	60	Shallow Zone
IW-17	2	50 to 70	70	Shallow Zone
IW-18	2	70 to 100	100	Intermediate Zone
IW-19	2	50 to 70	70	Shallow Zone
IW-20	2	70 to 100	100	Intermediate Zone
IW-21	2	50 to 70	70	Shallow Zone
IW-22	2	50 to 70	70	Shallow Zone
IW-23	2	70 to 100	100	Intermediate Zone
IW-24	2	56 to 75	75	Shallow Zone
IW-25	2	77 to 97	97	Intermediate Zone
IW-26	2	56 to 75	75	Shallow Zone
IW-27	2	77 to 97	97	Intermediate Zone
MW-1	4	40 to 60	60	Shallow Zone
MW-2	4	40 to 60	60	Shallow Zone
MW-3	4	40 to 60	60	Shallow Zone
MW-4	4	40 to 60	60	Shallow Zone
MW-5	4	40 to 60	60	Shallow Zone
MW-6	4	40 to 60	60	Shallow Zone
MW-7	2	40 to 60	60	Shallow Zone
MW-8	2	40 to 60	60	Shallow Zone
MW-9	2	40 to 60	60	Shallow Zone
MW-10	2	40 to 60	60	Shallow Zone
MW-11	2	40 to 60	60	Shallow Zone
MW-12	2	46.5 to 56.5	56.5	Shallow Zone
MW-13	2	48 to 58	58	Shallow Zone
MW-13D	2	80 to 90	90	Intermediate Zone
MW-14	2	46 to 56	56	Shallow Zone
MW-15	2	48.5 to 58.5	58.5	Shallow Zone
MW-16D	2	79.5 to 89.5	89.5	Intermediate Zone
MW-17	2	50 to 60	60	Shallow Zone
MW-18D	4	133 to 143	143	Deep Zone
MW-19D	4	160 to 170	170	Deep Zone
MW-20D	4	175 to 185	185	Deep Zone
MW-21D	4	50 to 160	160	Abandoned
MW-22D	4	48 to 138	138	Abandoned
MW-23	2	70 to 85	85	Intermediate Zone
MW-24	2	45 to 60	60	Shallow Zone
MW-25D	4	40 to 55	90	Shallow Zone
	4	75 to 90	90	Intermediate Zone
MW-26D	4	35 to 50	85	Shallow Zone
	4	70 to 85	85	Intermediate Zone
MW-27D	4	40 to 55	90	Shallow Zone
	4	75 to 90	90	Intermediate Zone
MW-28D	4	40 to 55	90	Shallow Zone
	4	75 to 90	90	Intermediate Zone
MW-29	2	45 to 60	60	Shallow Zone
MW-30	4	75 to 90	90	Intermediate Zone
MW-31	4	60 to 70	70	Shallow Zone
MW-32	4	45 to 60	60	Shallow Zone
MW-33	4	70 to 85	85	Intermediate Zone
MW-34	4	70 to 80	80	Intermediate Zone
MW-35	4	70 to 80	80	Intermediate Zone

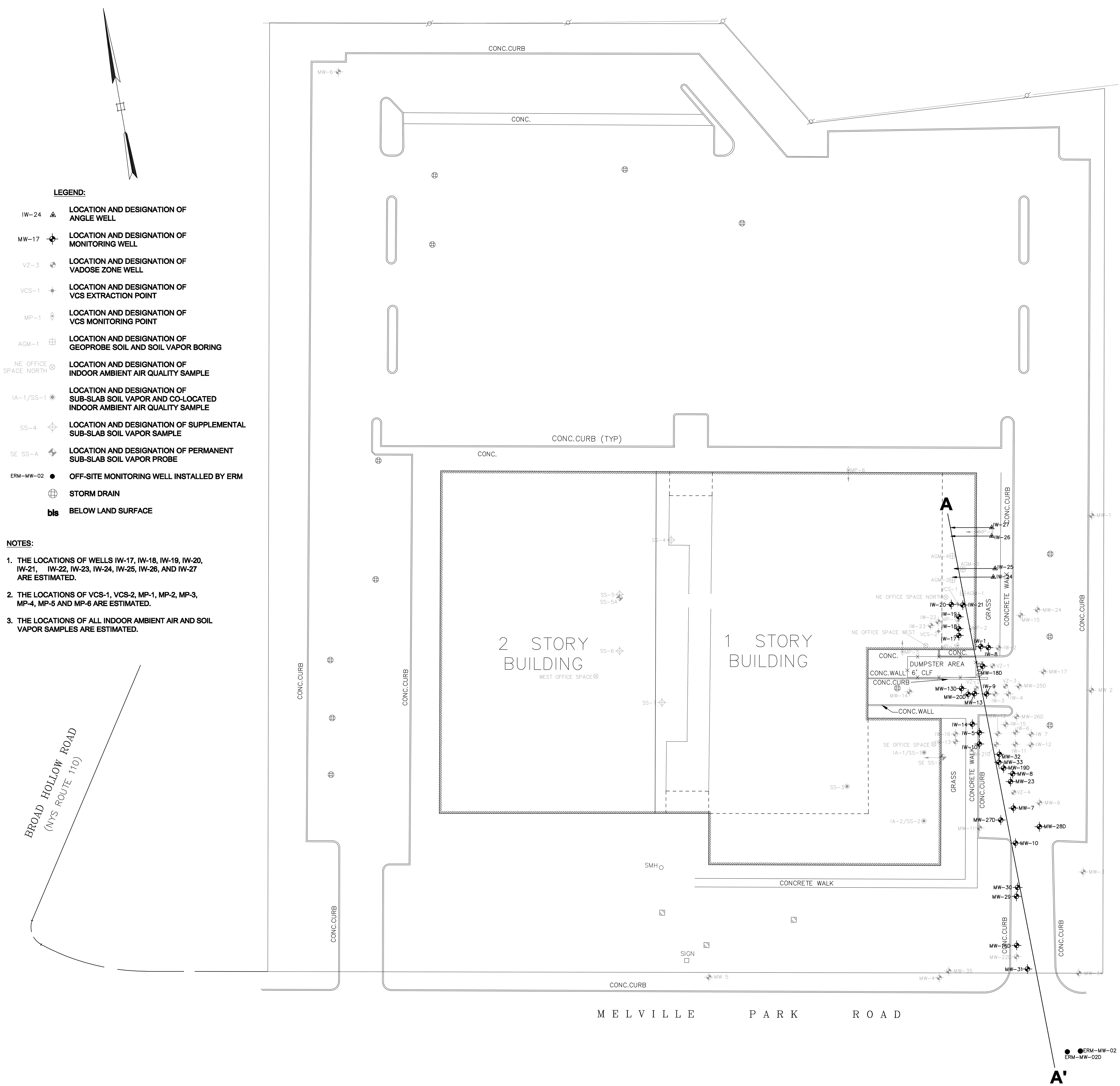
25 MELVILLE PARK ROAD
MELVILLE, NEW YORK

SITE PLAN

ARCADIS

FIGURE 2

CITY:MELVILLE DIV/GROUP:ENV DB:ALS LD: PIC: PM:SF TM:CK LYR:ON=*;OFF=*REF*
G:\ENVCAD\Melville-NY\NY001332\0011\00006\NY1332116_02.dwg LAYOUT: 2 SAVED: 4/17/2009 4:02 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_MELVILLE.CTB PLOTTED: 4/24/2009 11:49 AM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: NY001332.0011.00006
SITE LAYOUT



LEGEND:

IW-24	LOCATION AND DESIGNATION OF ANGLE WELL
MW-17	LOCATION AND DESIGNATION OF MONITORING WELL
VZ-3	LOCATION AND DESIGNATION OF VADOSE ZONE WELL
VCS-1	LOCATION AND DESIGNATION OF VCS EXTRACTION POINT
MP-1	LOCATION AND DESIGNATION OF VCS MONITORING POINT
AGM-1	LOCATION AND DESIGNATION OF GEOPROBE SOIL AND SOIL VAPOR BORING
NE OFFICE SPACE NORTH	LOCATION AND DESIGNATION OF INDOOR AMBIENT AIR QUALITY SAMPLE
IA-1/SS-1	LOCATION AND DESIGNATION OF SUB-SLAB SOIL VAPOR AND CO-LOCATED INDOOR AMBIENT AIR QUALITY SAMPLE
SS-4	LOCATION AND DESIGNATION OF SUPPLEMENTAL SUB-SLAB SOIL VAPOR SAMPLE
SE SS-A	LOCATION AND DESIGNATION OF PERMANENT SUB-SLAB SOIL VAPOR PROBE
ERM-MW-02	OFF-SITE MONITORING WELL INSTALLED BY ERM
	STORM DRAIN
bls	BELOW LAND SURFACE

NOTES:

1. THE LOCATIONS OF WELLS IW-17, IW-18, IW-19, IW-20, IW-21, IW-22, IW-23, IW-24, IW-25, IW-26, AND IW-27 ARE ESTIMATED.
2. THE LOCATIONS OF VCS-1, VCS-2, MP-1, MP-2, MP-3, MP-4, MP-5 AND MP-6 ARE ESTIMATED.
3. THE LOCATIONS OF ALL INDOOR AMBIENT AIR AND SOIL VAPOR SAMPLES ARE ESTIMATED.

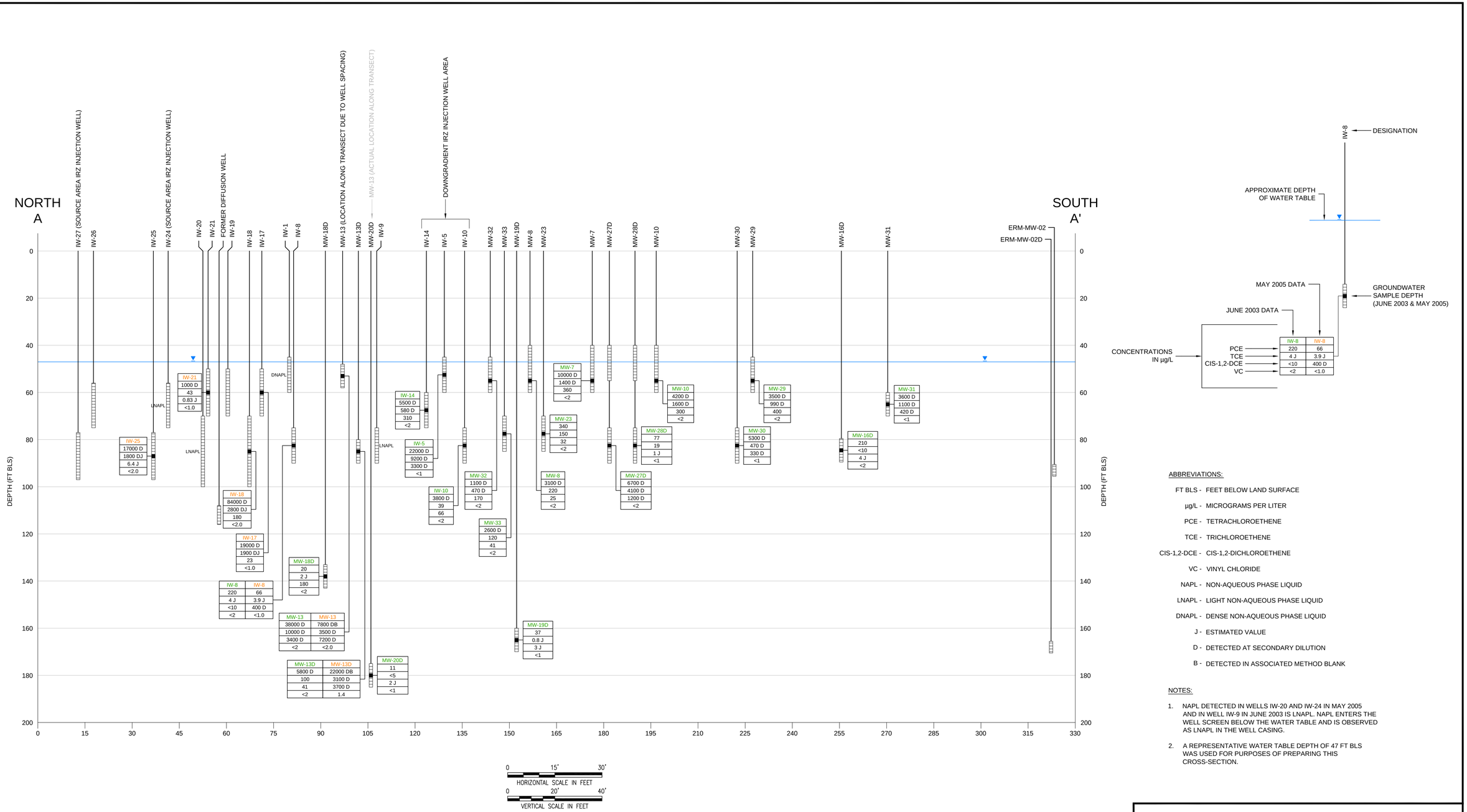
Well Designation	Well Diameter (inches)	Screened Interval (feet bls)	Total Depth (feet bls)	Vertical Zone Designation
IW-1	2	45 to 60	60	Shallow Zone
IW-2	2	45 to 60	60	Shallow Zone
IW-3	2	45 to 60	60	Shallow Zone
IW-4	2	45 to 60	60	Shallow Zone
IW-5	2	45 to 60	60	Shallow Zone
IW-6	2	45 to 60	60	Shallow Zone
IW-7	2	45 to 60	60	Shallow Zone
IW-8	2	75 to 90	90	Intermediate Zone
IW-9	2	75 to 90	90	Intermediate Zone
IW-10	2	75 to 90	90	Intermediate Zone
IW-11	2	75 to 90	90	Intermediate Zone
IW-12	2	75 to 90	90	Intermediate Zone
IW-13	2	75 to 90	90	Intermediate Zone
IW-14	2	60 to 75	75	Intermediate Zone
IW-15	2	60 to 75	75	Intermediate Zone
IW-16	2	45 to 60	60	Shallow Zone
IW-17	2	50 to 70	70	Shallow Zone
IW-18	2	70 to 100	100	Intermediate Zone
IW-19	2	50 to 70	70	Shallow Zone
IW-20	2	70 to 100	100	Intermediate Zone
IW-21	2	50 to 70	70	Shallow Zone
IW-22	2	50 to 70	70	Shallow Zone
IW-23	2	70 to 100	100	Intermediate Zone
IW-24	2	56 to 75	75	Shallow Zone
IW-25	2	77 to 97	97	Intermediate Zone
IW-26	2	56 to 75	75	Shallow Zone
IW-27	2	77 to 97	97	Intermediate Zone
MW-1	4	40 to 60	60	Shallow Zone
MW-2	4	40 to 60	60	Shallow Zone
MW-3	4	40 to 60	60	Shallow Zone
MW-4	4	40 to 60	60	Shallow Zone
MW-5	4	40 to 60	60	Shallow Zone
MW-6	4	40 to 60	60	Shallow Zone
MW-7	2	40 to 60	60	Shallow Zone
MW-8	2	40 to 60	60	Shallow Zone
MW-9	2	40 to 60	60	Shallow Zone
MW-10	2	40 to 60	60	Shallow Zone
MW-11	2	40 to 60	60	Shallow Zone
MW-12	2	46.5 to 56.5	56.5	Shallow Zone
MW-13	2	48 to 58	58	Shallow Zone
MW-13D	2	80 to 90	90	Intermediate Zone
MW-14	2	46 to 56	56	Shallow Zone
MW-15	2	48.5 to 58.5	58.5	Shallow Zone
MW-16D	2	79.5 to 89.5	89.5	Intermediate Zone
MW-17	2	50 to 60	60	Shallow Zone
MW-18D	4	133 to 143	143	Deep Zone
MW-19D	4	160 to 170	170	Deep Zone
MW-20D	4	175 to 185	185	Deep Zone
MW-21D	4	50 to 160	160	Abandoned
MW-22D	4	48 to 138	138	Abandoned
MW-23	2	70 to 85	85	Intermediate Zone
MW-24	2	45 to 60	60	Shallow Zone
MW-25D	4	40 to 55	55	Shallow Zone
	4	75 to 90	90	Intermediate Zone
MW-26D	4	35 to 50	50	Shallow Zone
	4	70 to 85	85	Intermediate Zone
MW-27D	4	40 to 55	55	Shallow Zone
	4	75 to 90	90	Intermediate Zone
MW-28D	4	40 to 55	55	Shallow Zone
	4	75 to 90	90	Intermediate Zone
MW-29	4	45 to 60	60	Shallow Zone
MW-30	4	75 to 90	90	Intermediate Zone
MW-31	4	60 to 70	70	Shallow Zone
MW-32	4	45 to 60	60	Shallow Zone
MW-33	4	70 to 85	85	Intermediate Zone
MW-34	4	70 to 80	80	Intermediate Zone
MW-35	4	70 to 80	80	Intermediate Zone
ERM-MW-02	2	90.5 to 95.5	95.5	Intermediate Zone
ERM-MW-02D	2	165.5 to 170.5	170.5	Deep Zone

25 MELVILLE PARK ROAD
MELVILLE, NEW YORK

LINE OF SECTION A - A'

ARCADIS

FIGURE 3



ABBREVIATIONS:

FT BLS - FEET BELOW LAND SURFACE
µg/L - MICROGRAMS PER LITER
PCE - TETRACHLOROETHENE
TCE - TRICHLOROETHENE
CIS-1,2-DCE - CIS-1,2-DICHLOROETHENE
VC - VINYL CHLORIDE
NAPL - NON-AQUEOUS PHASE LIQUID
LNAPL - LIGHT NON-AQUEOUS PHASE LIQUID
DNAPL - DENSE NON-AQUEOUS PHASE LIQUID
J - ESTIMATED VALUE
D - DETECTED AT SECONDARY DILUTION
B - DETECTED IN ASSOCIATED METHOD BLANK

NOTES:

1. NAPL DETECTED IN WELLS IW-20 AND IW-24 IN MAY 2005 AND IN WELL IW-9 IN JUNE 2003 IS LNAPL. NAPL ENTERS THE WELL SCREEN BELOW THE WATER TABLE AND IS OBSERVED AS LNAPL IN THE WELL CASING.
2. A REPRESENTATIVE WATER TABLE DEPTH OF 47 FT BLS WAS USED FOR PURPOSES OF PREPARING THIS CROSS-SECTION.

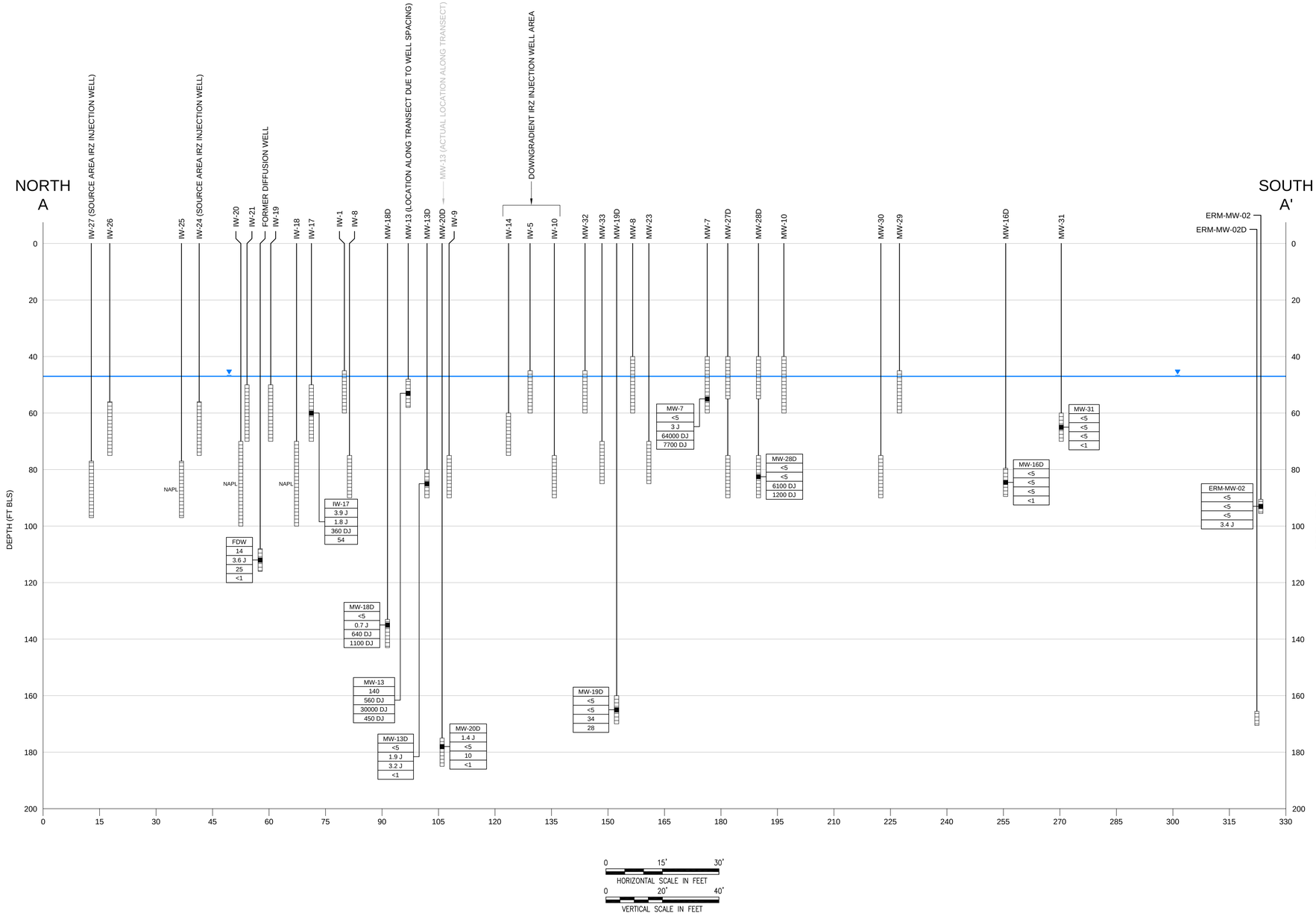
25 MELVILLE PARK ROAD
MELVILLE, NEW YORK

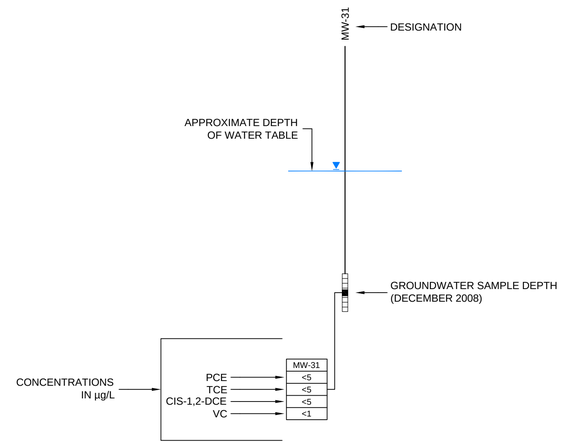
CROSS SECTION A-A'
JUNE 2003 AND MAY 2005
BASELINE CONTAMINANT DISTRIBUTION

ARCADIS

FIGURE
4

CITY:MELVILLE-NY DIV/GROUP:ENV DB:ALS LD:ALS PIC: PM:SF TM:KC LYR:ON=*;OFF=*REF*
G:\ENVCAD\Melville-NY\NY001332\0011\00006\NY1332116_04.dwg LAYOUT: 4 SAVED: 4/17/2009 5:27 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ----
XREFS: IMAGES: PROJECTNAME: NY001332.0011.00006





ABBREVIATIONS:

FT BLS - FEET BELOW LAND SURFACE
µg/L - MICROGRAMS PER LITER
PCE - TETRACHLOROETHENE
TCE - TRICHLOROETHENE
CIS-1,2-DCE - CIS-1,2-DICHLOROETHENE
VC - VINYL CHLORIDE
NAPL - NON-AQUEOUS PHASE LIQUID
LNAPL - LIGHT NON-AQUEOUS PHASE LIQUID
J - ESTIMATED VALUE
D - DETECTED AT SECONDARY DILUTION

NOTES:

1. NAPL DETECTED IN WELLS IW-18, IW-20, AND IW-25 IS LNAPL. NAPL ENTERS THE WELL SCREEN BELOW THE WATER TABLE AND IS OBSERVED AS LNAPL IN THE WELL CASING.
2. A REPRESENTATIVE WATER TABLE DEPTH OF 47 FT BLS WAS USED FOR PURPOSES OF PREPARING THIS CROSS-SECTION.

25 MELVILLE PARK ROAD
MELVILLE, NEW YORK

CROSS SECTION A-A'
DECEMBER 2008
CONTAMINANT DISTRIBUTION

ARCADIS

FIGURE
5

CITY:MELVILLE-NY DIV/GROUP:ENV DB:ALS LD:ALS PIC: PM:SF TM:KC LYR:ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: NY001332.0011.00006

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Appendix A

Injection Logs

ARCADIS

Summary of Reagent Injection Parameters, Injection Well IW-6, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
8/14/2003	1	19	172	9.9	191	25	0	Vacuum on well head after injection; 371 grams KBr tracer added
8/28/2003	2	19	172	9.9	191	48	0	Vacuum on well head after injection
9/11/2003	3	19	172	9.9	191	48	0	Vacuum on well head after injection
9/29/2003	4	19	172	9.9	191	48	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
10/13/2003	5	25.5	166.5	13.3	192	55	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
10/27/2003	6	19	172	9.9	191	48	8	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
11/17/2003	7	19	172	9.9	191	48	7	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
12/8/2003	8	25.5	166.5	13.3	192	48	8	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
12/29/2003	9	25.5	165.5	13.4	191	64	7.5	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
1/21/2004	10	25.5	165.5	13.4	191	48	4	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
2/10/2004	11	25.5	165.5	13.4	191	38	6	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
3/8/2004	12	25.5	165.5	13.4	191	48	4	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
4/5/2004	13	25.5	165.5	13.4	191	64	5	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
5/3/2004	14	25.5	165.5	13.4	191	64	11	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
6/1/2004	15	25.5	165.5	13.4	191	64	4	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
6/21/2004	15a	0	191	0.0	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
6/28/2004	16	25.5	165.5	13.4	191	48	1	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
7/26/2004	17	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
8/30/2004	18	25.5	165.5	13.4	191	48	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
10/1/2004	19	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
11/8/2004	20	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
12/13/2004	21	26	874	2.9	900	43	0	Vacuum on well head after injection, 10 lbs of sodium bicarbonate added
1/26/2005	22	26	874	2.9	900	69	0	Vacuum on well head after injection
3/9/2005	23	25	475	5.0	500	33	0	Vacuum on well head after injection
5/4/2005	24	111	4889	2.22	5000	15.9	0	Vacuum on well head after injection
5/12/2005	24a	3.3	163.7	2.0	167	8	3	
6/20/2005	25	112	4649	2.4	4761	14	0	Vacuum on well head after injection
8/15/2005	26	111	4889	2.22	5000	18.9	0	Vacuum on well head after injection
10/17/2005	27	62	4938	1.24	5000	16.5	0	Vacuum on well head after injection
12/22/2005	28	79	6271	1.24	6350	25	0	Vacuum on well head after injection
4/19/2006	29	62	4938	1.24	5000	21	0	Vacuum on well head after injection
6/30/2006	30	111	4889	2.22	5000	26	0	Vacuum on well head after injection
11/14/2006	31	111	4889	2.22	5000	32	0	Vacuum on well head after injection
1/25/2007	32	111	4889	2.22	5000	21	0	Vacuum on well head after injection
3/27/2007	33	111	4889	2.22	5000	27	0	Vacuum on well head after injection
6/14/2007	34	114	5086	2.22	5200	17	0	
9/19/2007	35	111	4889	2.22	5000	15	0	
12/19/2007	36	111	4889	2.22	5000	18	0	
3/19/2008	37	111	4889	2.22	5000	17	0	
6/18/2008	38	111	4889	2.22	5000	17	0	
9/17/2008	39	111	4889	2.22	5000	12	0	
12/23/2008	40	111	4889	2.22	5000	21	0	Vacuum on well head after injection

ARCADIS

Summary of Reagent Injection Parameters, Injection Well IW-11, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
8/14/2003	1	26.4	237.8	10.0	264	44	0	Vacuum on well head after injection; 556 grams KBr tracer added
8/28/2003	2	26.4	237.8	10.0	264	66	0	Vacuum on well head after injection
9/11/2003	3	26.4	237.8	10.0	264	53	0	Vacuum on well head after injection
9/29/2003	4	40	224	15.2	264	66	0	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
10/13/2003	5	52.8	211.2	20.0	264	53	0	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
10/27/2003	6	40	224	15.2	264	44	4	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
11/17/2003	7	35	493	6.6	528	66	8	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/8/2003	8	35	229	13.3	264	53	4	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/29/2003	9	35	493	6.6	528	45	0	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
1/21/2004	10	35	493	6.6	528	59	0	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
2/10/2004	11	35	493	6.6	528	26	0	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
3/8/2004	12	35	493	6.6	528	53	6	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
4/5/2004	13	35	493	6.6	528	53	8	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
5/3/2004	14	35	493	6.6	528	53	10	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/1/2004	15	35	493	6.6	528	59	3	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/21/2004	15a	0	528	0.0	528	66	0	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
6/28/2004	16	35	493	6.6	528	59	16	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
7/26/2004	17	35	493	6.6	528	53	20	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
8/30/2004	18	35	493	6.6	528	48	21	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
10/1/2004	19	35	493	6.6	528	48	26	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
11/8/2004	20	35	493	6.6	528	53	22	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/14/2004	21	40	1360	2.9	1400	61	22	Vacuum on well head after injection, 10 lbs of sodium bicarbonate added
1/25/2005	22	40	1360	2.9	1400	61	28	Vacuum on well head after injection
3/9/2005	23	40	760	5.0	800	36	4	Vacuum on well head after injection
5/5/2005	24	164	7189	2.23	7353	15	0	Vacuum on well head after injection
5/12/2005	24a	3.3	163.7	2.0	167	8	5.5	
6/21/2005	25	182	8145	2.2	8312	15	0	Vacuum on well head after injection
8/15/2005	26	167	7334	2.22	7501	24.8	4	
10/17/2005	27	92	7408	1.23	7500	17.8	0	Vacuum on well head after injection
12/22/2005	28	93	7407	1.24	7500	25	0	0psi @ start, 8psi @ 3500gal to end
2/14/2006	29	92	7408	1.23	7500	30	6	6psi for duration of injection
4/21/2006	30	92	7409	1.23	7500	18	6	0psi start, 6psi for duration of injection
6/30/2006	31	167	7334	2.22	7500	21	6	0psi start, 6psi for duration of injection
11/15/2006	32	167	7334	2.22	7500	34	0	Vacuum on well head after injection
1/25/2007	33	167	7333	2.23	7500	24	0	Vacuum on well head after injection
3/28/2007	34	167	7333	2.23	7500	18	0	
6/14/2007	35	167	7333	2.23	7500	24	0	
9/19/2007	36	167	7333	2.23	7500	26	0	
12/19/2007	37	167	7333	2.23	7500	21	0	
3/18/2008	38	167	7333	2.23	7500	17-25	0	
6/17/2008	39	167	7333	2.22	7500	13-20	0	
9/17/2008	40	167	7334	2.22	7500	18	0	
12/23/2008	41	167	7334	2.22	7500	21	6	Vacuum on well head after injection

Summary of Reagent Injection Parameters, Injection Well IW-13, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
8/14/2003	1	26.4	237.8	10.0	264	45	0	Vacuum on well head after injection
8/28/2003	2	26.4	237.8	10.0	264	66	0	Vacuum on well head after injection
9/11/2003	3	26.4	237.8	10.0	264	44	0	Vacuum on well head after injection
9/29/2003	4	26.4	237.8	10.0	264	47	0	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added,
10/13/2003	5	52.8	211.2	20.0	264	66	2.5	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added,
10/27/2003	6	40	224	15.2	264	66	0	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added,
11/17/2003	7	35	229	13.3	264	44	0	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/8/2003	8	35	229	13.3	264	66	11	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/29/2003	9	35	229	13.3	264	66	8	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
1/19/2004	10	35	229	13.3	264	53	10	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
2/10/2004	11	35	229	13.3	264	53	14.5	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
3/8/2004	12	35	229	13.3	264	66	17	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
4/5/2004	13	35	229	13.3	264	53	24	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
5/3/2004	14	35	229	13.3	264	53	26	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/1/2004	15	35	229	13.3	264	53	27	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/21/2004	15a	0	264	0.0	264	66	10	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
6/28/2004	16	35	229	13.3	264	53	22	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
7/26/2004	17	35	229	13.3	264	38	37	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
8/30/2004	18	35	229	13.3	264	44	33	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
10/1/2004	19	35	229	13.3	264	53	37	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
11/8/2004	20	35	229	13.3	264	38	35	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/13/2004	21	40	1360	2.9	1400	45	34	Vacuum on well head after injection, 10 lbs of sodium bicarbonate added
1/26/2005	22	40	1360	2.9	1400	50	34.2	Vacuum on well head after injection
3/9/2005	23	40	760	5.0	800	36	12	Vacuum on well head after injection
5/5/2005	24	165	7231	2.23	7396	15	0	Vacuum on well head after injection
5/12/2005	24a	3.3	163.7	2.0	167	8	7	
6/21/2005	25	171	8412	2.3	8584	15	0	Vacuum on well head after injection
8/15/2005	26	167	7334	2.22	7501	18.5	13	
10/18/2005	27	92	7408	1.23	7500	23.4	10	10psi @ start, 20psi @ end
12/21/2005	28	92	7408	1.23	7500	25	0	
2/15/2006	29	92	7408	1.23	7500	14.5	30	
4/19/2006	30	92	7408	1.23	7500	14.7	20	10psi @ start, 20psi @ end
7/3/2006	31	167	7334	2.2	7500	16.7	30	10psi @ start, 30psi @ end
11/14/2006	32	167	7333	2.22	7500	10	20	10psi @ start, 20psi @ end
1/23/2007	33	167	7333	2.23	7500	10	10	8psi to start , 10psi @ end
3/27/2007	34	167	7333	2.23	7500	7	~20	0psi @ start, 20psi @ end
6/14/2007	35	163	7237	2.23	7400	12	5	
9/15/2007	36	177.5	7323	2.23	7500	20.8	1	
12/14/2007	37	167	7333	2.23	7500	16	4	
3/18/2008	38	167	7333	2.23	7500	15	0	
6/17/2008	39	166	7334	2.22	7500	16	0	
9/16/2008	40	166	7334	2.22	7500	15	0	
12/23/2008	41	166	7334	2.22	7500	15	0	Vacuum on well head after injection

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Summary of Reagent Injection Parameters, Injection Well IW-14, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
8/14/2003	1	26.4	237.8	10.0	264	50	0	Vacuum on well head after injection
8/28/2003	2	26.4	237.8	10.0	264	66	14	Vacuum on well head after injection
9/11/2003	3	26.4	237.8	10.0	264	44	30	Vacuum on well head after injection
9/29/2003	4	40	224	15.2	264	66	10	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
10/13/2003	5	52.8	211.2	20.0	264	44	27	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
10/27/2003	6	40	224	15.2	264	44	34	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
11/17/2003	7	35	229	13.3	264	44	29	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/8/2003	8	35	229	13.3	264	44	28	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/29/2003	9	35	229	13.3	264	53	28	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
1/21/2004	10	35	229	13.3	264	53	32	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
2/10/2004	11	35	229	13.3	264	38	32.5	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
3/8/2004	12	35	229	13.3	264	44	35	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
4/5/2004	13	35	229	13.3	264	38	38	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
5/3/2004	14	35	229	13.3	264	44	34	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/1/2004	15	35	229	13.3	264	66	24.5	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/21/2004	15a	0	264	0.0	264	66	0	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
6/28/2004	16	35	229	13.3	264	53	23	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
7/26/2004	17	35	229	13.3	264	24	30	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
8/30/2004	18	35	229	13.3	264	53	6	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
10/1/2004	19	35	229	13.3	264	53	27	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
11/8/2004	20	35	229	13.3	264	53	36	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/15/2004	21	40	1360	2.9	1400	56	28	Vacuum on well head after injection, 10 lbs of sodium bicarbonate added
1/28/2005	22	40	1360	2.9	1400	78	14.8	Vacuum on well head after injection
3/9/2005	23a	8.8	167.2	5.0	176	35	0	Vacuum on well head after injection
3/10/2005	23b	60	620	8.8	680	68	10	
5/4/2005	24	98	4302	2.23	4400	24	0	Vacuum on well head after injection
5/12/2005	24a	3.3	163.7	2.0	167	8	5	
6/20/2005	25	113	4710	2.3	4823	14	5	Vacuum on well head after injection
8/15/2005	26	111	4889	2.22	5000	16.3	0	Vacuum on well head after injection
10/18/2005	27	62	4938	1.24	5000	11.4	0	Vacuum on well head after injection
12/21/2005	28	79	6271	1.24	6350	25	0	0psi @ start, 10psi @ end
2/15/2006	29	62	4938	1.23	5000	22	0	0psi @ start, 10psi @ end
4/19/2006	30	62	4938	1.23	5000	25	0	
7/3/2006	31	111	4939	2.23	5000	20	0	
11/14/2006	32	111	4889	2.22	5000	28	0	0psi @ start, 10psi @ end
1/23/2007	33	111	4889	2.22	5000	22	8	8psi @ start , 10psi @end
3/27/2007	34	111	4889	2.22	5000	24	~5	0psi @ start, 10psi @ end
6/13/2007	35	111	4889	2.22	5000	15	4	
9/18/2007	36	111	4889	2.22	5000	18	0	
12/14/2007	37	111	4889	2.22	5000	25	4	
3/18/2008	38	111	4889	2.22	5000	20-25	0	
6/18/2008	39	133	5866	2.22	6000	18	0	
9/16/2008	40	111	4889	2.22	5000	12	0	
12/24/2008 [1]	41	111	4889	2.22	5000	21	0	Vacuum on well head after injection

Notes:
1. Approximately 2,450 gallons of dilute molasses rinse water injected into well following primary injection.

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Summary of Reagent Injection Parameters, Injection Well IW-15, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
8/14/2003	1	26.4	237.8	10.0	264	45	11	Vacuum on well head after injection
8/28/2003	2	26.4	237.8	10.0	264	53	30	Vacuum on well head after injection
9/11/2003	3	26.4	237.8	10.0	264	38	37	Vacuum on well head after injection
9/29/2003	4	40	224	15.2	264	26	35	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
10/13/2003	5	52.8	211.2	20.0	264	26	30	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
10/27/2003	6	40	224	15.2	264	26	32	Vacuum on well head after injection, 25 lbs of sodium bicarbonate added
11/17/2003	7	35	229	13.3	264	38	28	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/8/2003	8	35	229	13.3	264	26	--	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/29/2003	9	35	229	13.3	264	24	39	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
1/21/2004	10	35	229	13.3	264	29	40	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
2/10/2004	11	35	229	13.3	264	16	38	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
3/8/2004	12	35	229	13.3	264	17	40	Vacuum on well head after injection, 13 lbs of sodium bicarbonate added
4/5/2004	13	35	229	13.3	264	33	38	Low vacuum on well head after injection, 13 lbs of sodium bicarbonate added
5/3/2004	14	35	229	13.3	264	16	40	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/1/2004	15	35	229	13.3	264	53	18	Vacuum on well head after injection, 6 lbs of sodium bicarbonate added
6/21/2004	15a	0	264	0.0	264	26	18	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
6/28/2004	16	35	229	13.3	264	66	20.5	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
7/26/2004	17	35	229	13.3	264	44	24.5	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
8/30/2004	18	35	229	13.3	264	53	21	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
10/1/2004	19	35	229	13.3	264	53	22	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
11/8/2004	20	35	229	13.3	264	53	27.5	Vacuum on well head after injection, 26 lbs of sodium bicarbonate added
12/14/2004	21	40	1360	2.9	1400	47	30	Vacuum on well head after injection, 10 lbs of sodium bicarbonate added
1/26/2005	22	40	1360	2.9	1400	67	12.2	Vacuum on well head after injection
3/9/2005	23a	8.9	170.1	5.0	179	36	0	Vacuum on well head after injection
3/10/2005	23b	50	630	7.4	680	59	7	
5/3/2005	24	111	4899	2.22	5000	22	0	Vacuum on well head after injection
5/12/2005	24a	3.3	163.7	2.0	167	11	0	
6/20/2005	25	113	4658	2.4	4770	14	0	Vacuum on well head after injection
8/15/2005	26	111	4889	2.22	5000	16.3	0	Vacuum on well head after injection
10/18/2005	27	62	4938	1.24	5000	11.4	0	Vacuum on well head after injection
12/21/2005	28	79	6271	1.24	6350	25	8	
2/14/2006	29	62	4938	1.23	5000	34	0	Vacuum on well head after injection
4/21/2006	30	62	4938	1.23	5000	25	0	
6/30/2006	31	111	4889	2.22	5000	28	0	Vacuum on well head after injection
11/14/2006	32	111	4889	2.22	5000	24	0	Vacuum on well head after injection
1/23/2007	33	111	4889	2.22	5000	24	0	Vacuum on well head after injection
3/27/2007	34	111	4889	2.22	5000	19	0	Vacuum on well head after injection
6/14/2007	35	112	4988	2.22	5100	21	0	
9/19/2007	36	111	4889	2.22	5000	27	0	
12/14/2007	37	111	4889	2.22	5000	23	0	
3/18/2008	38	111	4889	2.22	5000	20-15	0	
6/17/2008	39	133	5867	2.22	6000	15	0	
9/16/2008	40	111	4889	2.22	5000	15	0	
12/19/2008	41	111	4889	2.22	5000	18	0	Vacuum on well head after injection

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Summary of Reagent Injection Parameters, Injection Well IW-16, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
8/14/2003	1	19	172	9.9	191	40	0	Vacuum on well head after injection
8/28/2003	2	19	172	9.9	191	48	0	Vacuum on well head after injection
9/11/2003	3	19	172	9.9	191	64	0	Vacuum on well head after injection
9/29/2003	4	19	172	9.9	191	48	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
10/13/2003	5	25.5	166.5	13.3	192	48	4.3	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
10/27/2003	6	19	172	9.9	191	48	2.5	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
11/17/2003	7	19	172	9.9	191	64	2	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
12/8/2003	8	25.5	166.5	13.3	192	64	4	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
12/29/2003	9	25.5	165.5	13.4	191	64	6	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
1/19/2004	10	25.5	165.5	13.4	191	64	4.5	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
2/10/2004	11	25.5	165.5	13.4	191	27	3	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
3/8/2004	12	25.5	165.5	13.4	191	64	7	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
4/5/2004	13	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
5/3/2004	14	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
6/1/2004	15	25.5	165.5	13.4	191	38	0	Vacuum on well head after injection, 9 lbs of sodium bicarbonate added
6/21/2004	15a	0	191	0.0	191	48	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
6/28/2004	16	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
7/26/2004	17	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
8/30/2004	18	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
10/1/2004	19	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
11/8/2004	20	25.5	165.5	13.4	191	64	0	Vacuum on well head after injection, 19 lbs of sodium bicarbonate added
12/13/2004	21	26	874	2.9	900	72	0	Vacuum on well head after injection, 10 lbs of sodium bicarbonate added
1/26/2005	22	26	874	2.9	900	64	0	
3/9/2005	23	25	475	5.0	500	33	0	Vacuum on well head after injection
5/4/2005	24	111	4889	2.22	5000	15.9	0	
5/12/2005	24a	3.3	163.7	2.0	167	9	3.5	
6/21/2005	25	111	5452	2.3	5563	10	0	Vacuum on well head after injection
8/15/2005	26	111	4889	2.22	5000	16.4	0	Vacuum on well head after injection
10/17/2005	27	62	4938	1.24	5000	16.5	0	Vacuum on well head after injection
12/22/2005	28	79	6271	1.24	6350	25	0	Vacuum on well head after injection
4/21/2006	29	62	4938	1.24	5000	24	0	Vacuum on well head after injection
6/30/2006	30	167	7333	2.22	7500	18	0	Vacuum on well head after injection
11/15/2006	31	167	7333	2.22	7500	40	0	Vacuum on well head after injection
1/24/2007	32	167	7333	2.23	7500	25	0	Vacuum on well head after injection
3/28/2007	33	167	7333	2.23	7500	23	0	
6/14/2007	34	167	7333	2.23	7500	25	0	
9/15/2007	35	178	7322	2.23	7500	15	0	
12/14/2007	36	167	7333	2.23	7500	14	5	
3/18/2008	37	167	7333	2.23	7500	15	0	
6/17/2008	38	167	7334	2.22	7500	13	0	
9/16/2008	39	167	7334	2.22	7500	13-20	10-0	
12/24/2008 [1]	40	167	7334	2.22	7500	21	0	Vacuum on well head after injection

Notes:
1. Approximately 2,450 gallons of dilute molasses rinse water injected into well following primary injection.

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Summary of Reagent Injection Parameters, Injection Well IW-24, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
6/17/2008	1	266	11734	2.22	12000	15	10	
9/16/2008	2	222	9778	2.22	10000	15	4	
12/22/2008	3	222	9778	2.22	10000	18	0	Vacuum on well head after injection

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Summary of Reagent Injection Parameters, Injection Well IW-27, 25 Melville Park Road, Melville, New York.

Injection Start Date	Injection No.	Raw Molasses Volume (gallons)	Water Volume (gallons)	Solution Strength (%)	Volume Injected (gallons)	Injection Flowrate (gpm)	Injection Pressure (psi)	Notes and Observations
12/21/2005	1	124	9876	1.24	10000	30	0	Vacuum on well head after injection
2/15/2006	2	124	9876	1.24	10000	30	0	Vacuum on well head after injection
4/21/2006	3	123	9877	1.23	10000	23	0	Vacuum on well head after injection
7/3/2006	4	222	9778	2.22	10000	27.7	0	Vacuum on well head after injection
9/7/2006	5	222	9778	2.22	10000	30	0	Vacuum on well head after injection
12/8/2006	6	222	9778	2.22	10000	30	0	Vacuum on well head after injection
1/23/2007	7	222	9778	2.22	10000	25	0	Vacuum on well head after injection
3/28/2007	8	222	9778	2.22	10000	18	0	Vacuum on well head after injection
6/13/2007	9	226	10024	2.22	10250	13	8	
9/15/2007	10	222	8037	2.22	8259	26	0	
12/19/2007	11	222	9778	2.22	10000	16	0	
3/18/2008	12	222	9778	2.22	10000	22	10	
6/17/2008	13	266	11734	2.22	12000	15-20	0	
9/16/2008	14	222	9778	2.22	10000	15	0	
12/22/2008	15	222	9778	2.22	10000	22	0-16	

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Appendix B

Engineering Evaluation Charts

Figure B-1. Concentrations of PCE Daughter Products Versus Time in MW-31

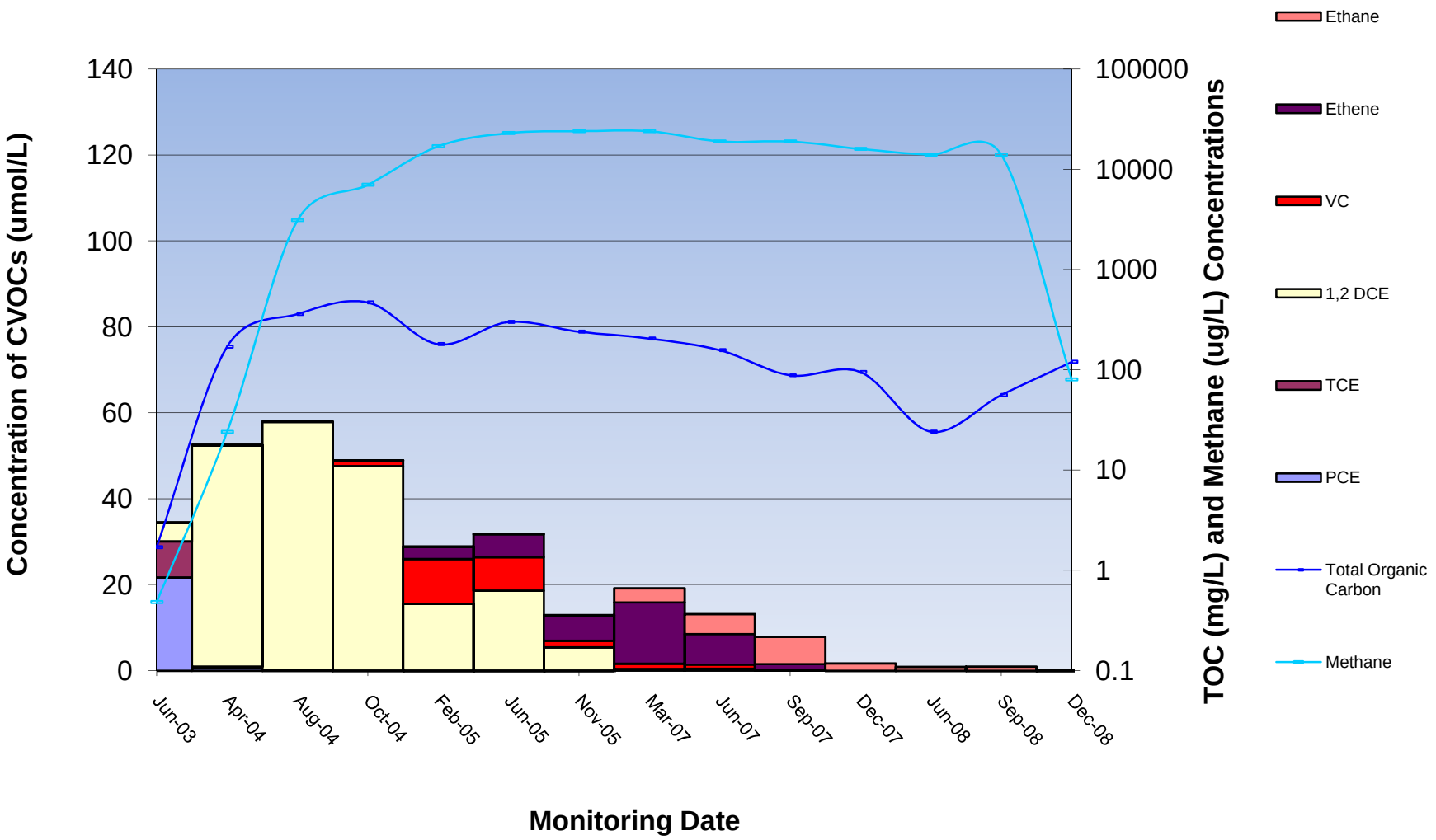

Figure B-2. Concentrations of PCE Daughter Products Versus Time in MW-29

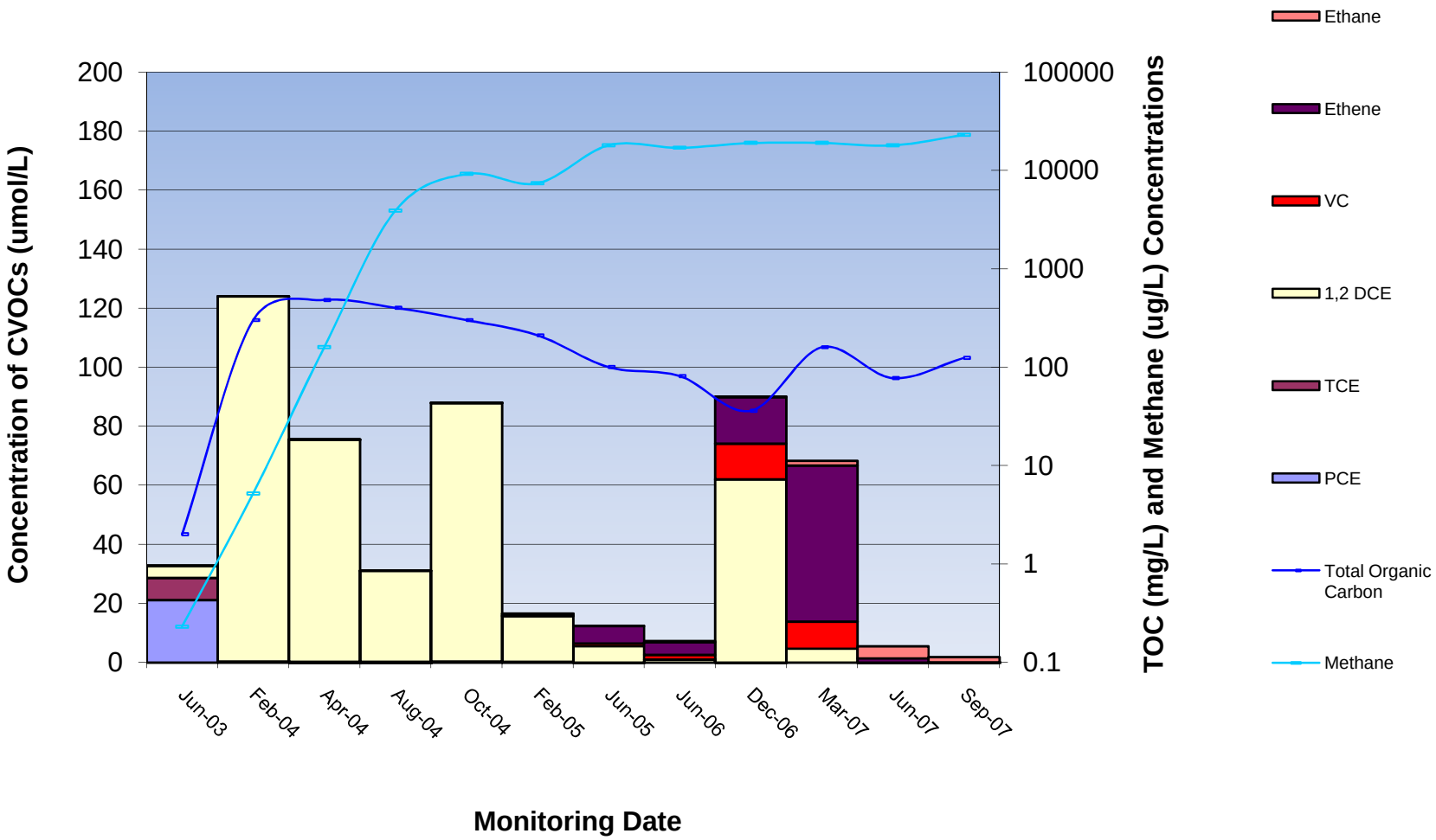

Figure B-3. Concentrations of PCE Daughter Products Versus Time in MW-7

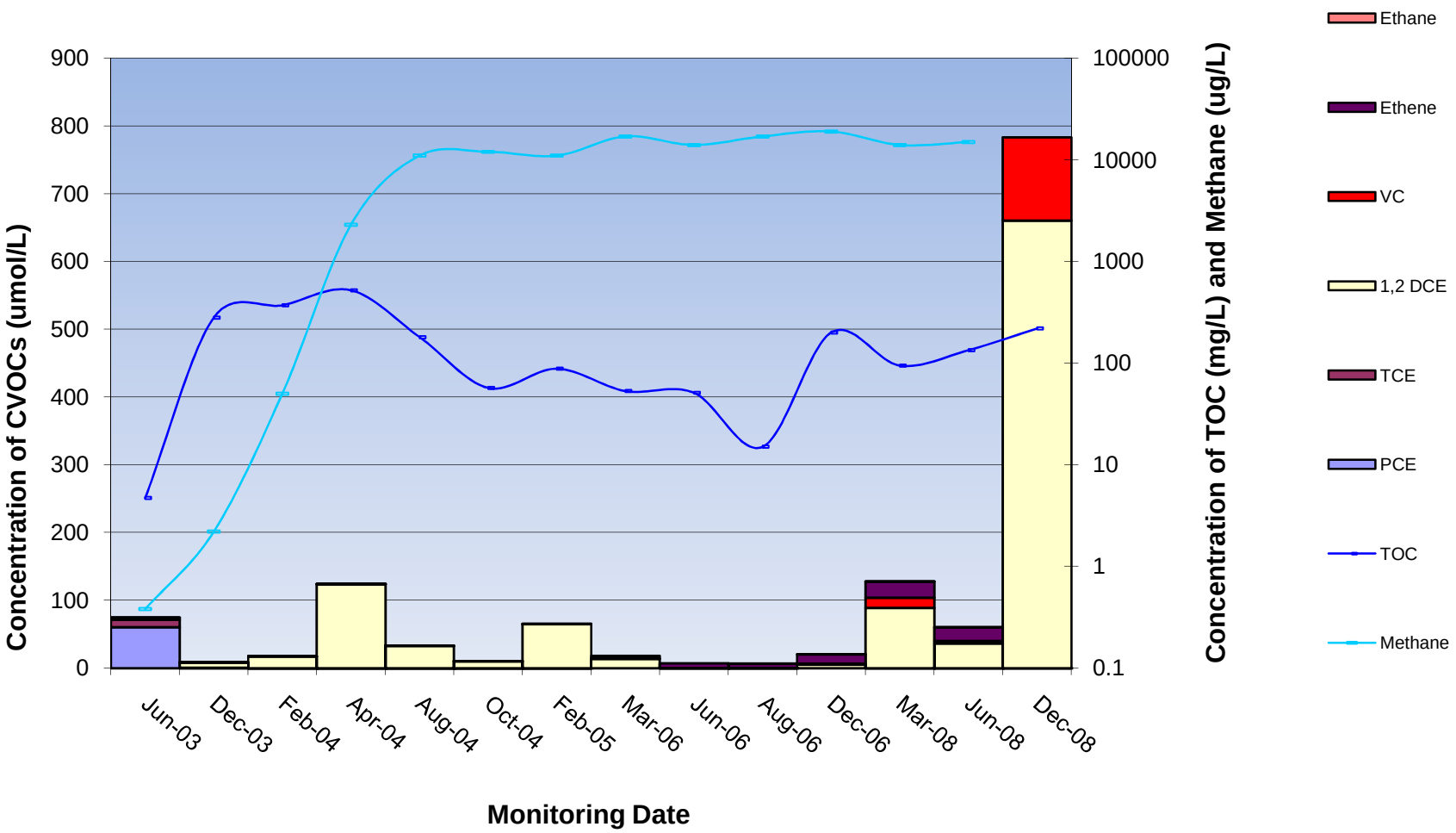

Figure B-4. Concentrations of PCE Daughter Products Versus Time in MW-32

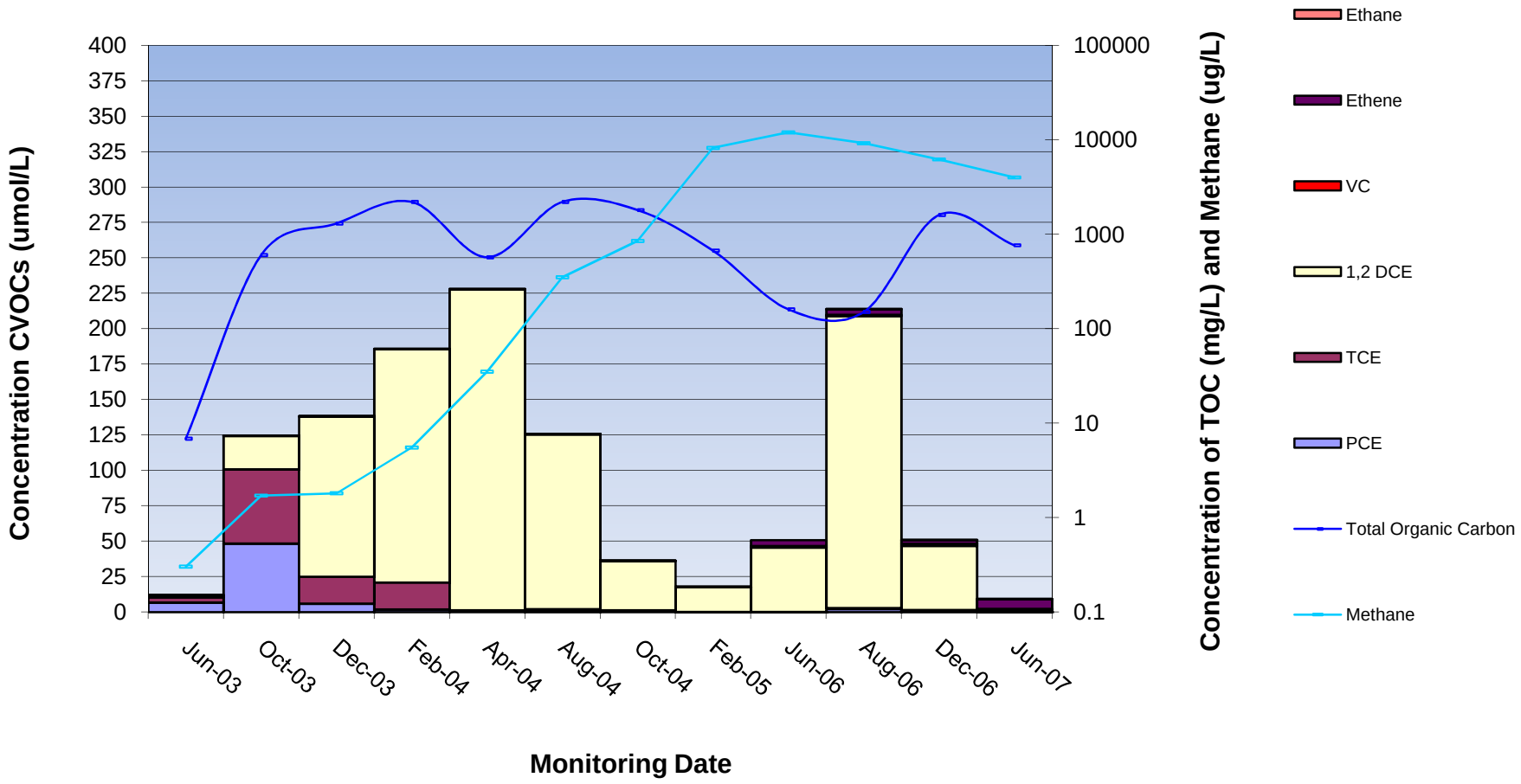

Figure B-5. Concentrations of PCE Daughter Products Versus Time in MW-16D

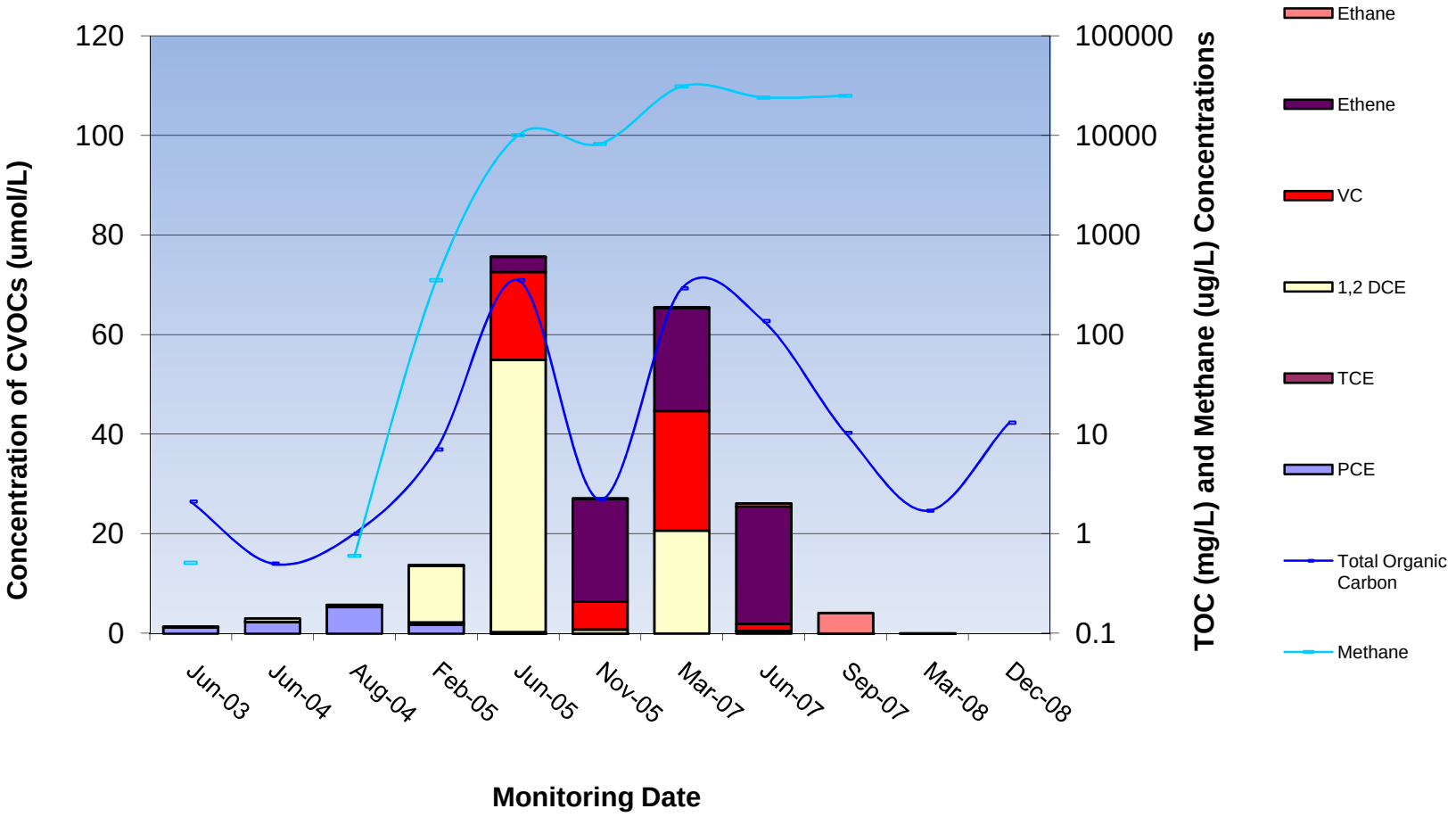

Figure B-6. Concentrations of PCE Daughter Products Versus Time in MW-30

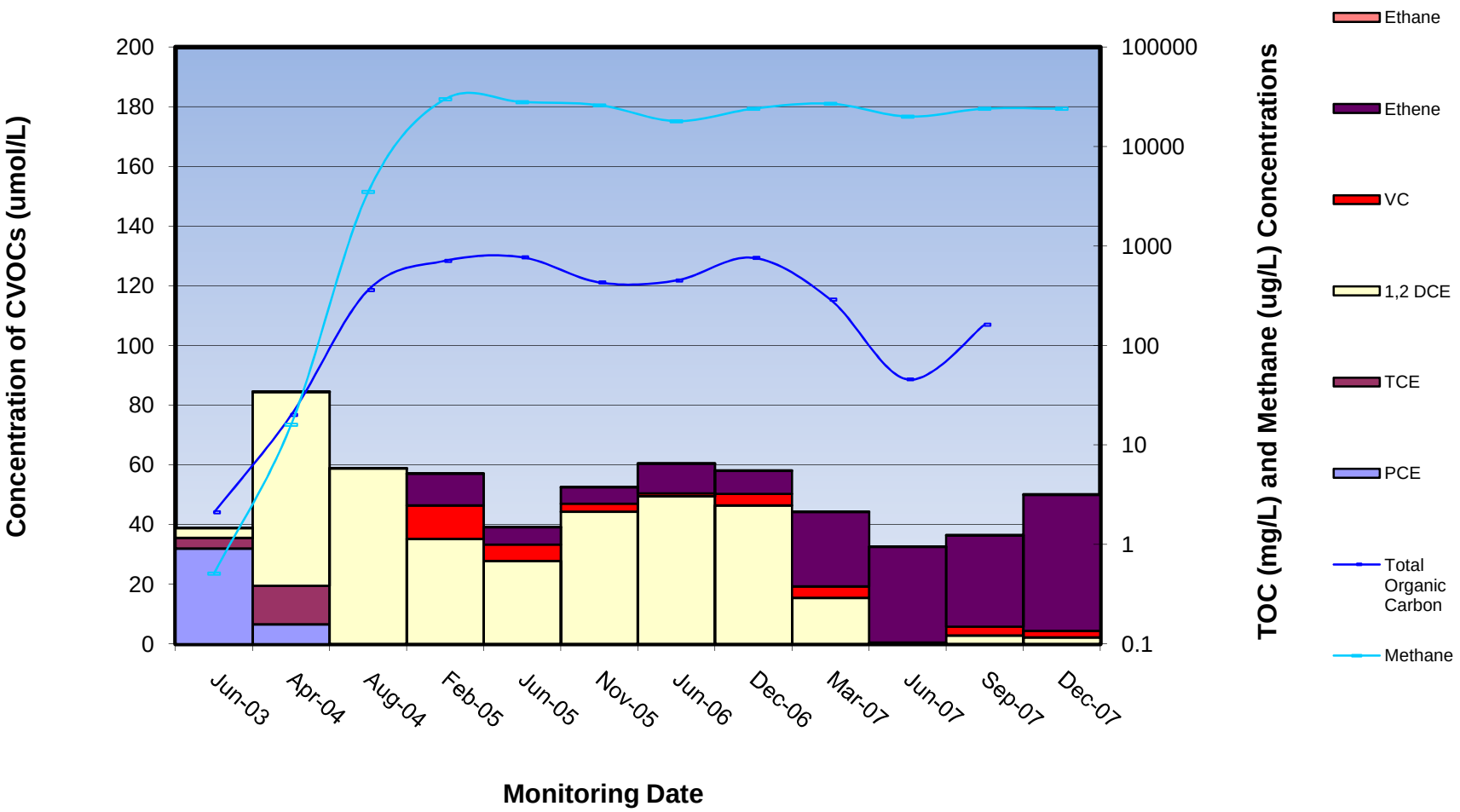

Figure B-7. Concentrations of PCE Daughter Products Versus Time in MW-27D

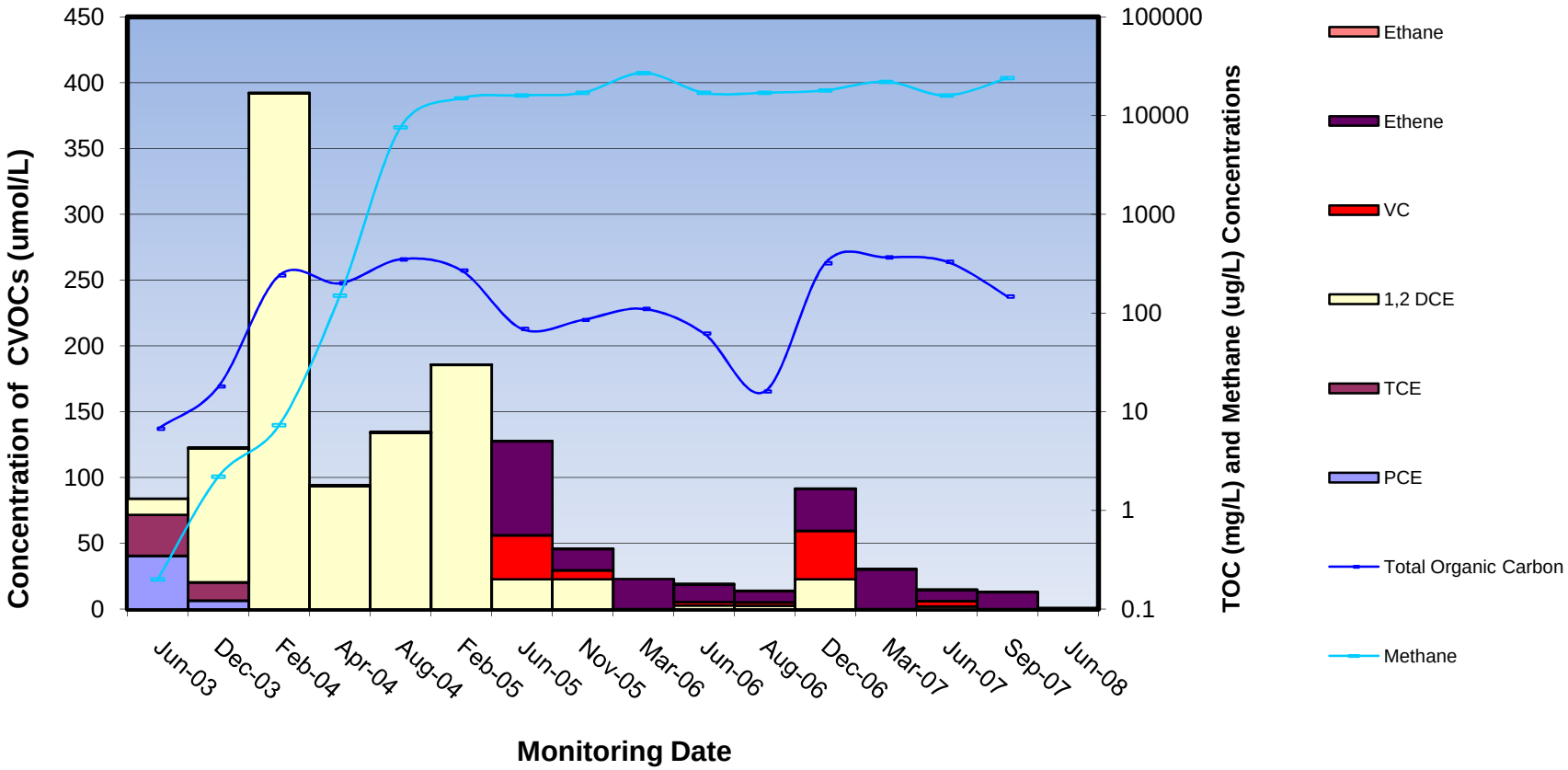

Figure B-8. Concentrations of PCE Daughter Products Versus Time in MW-33

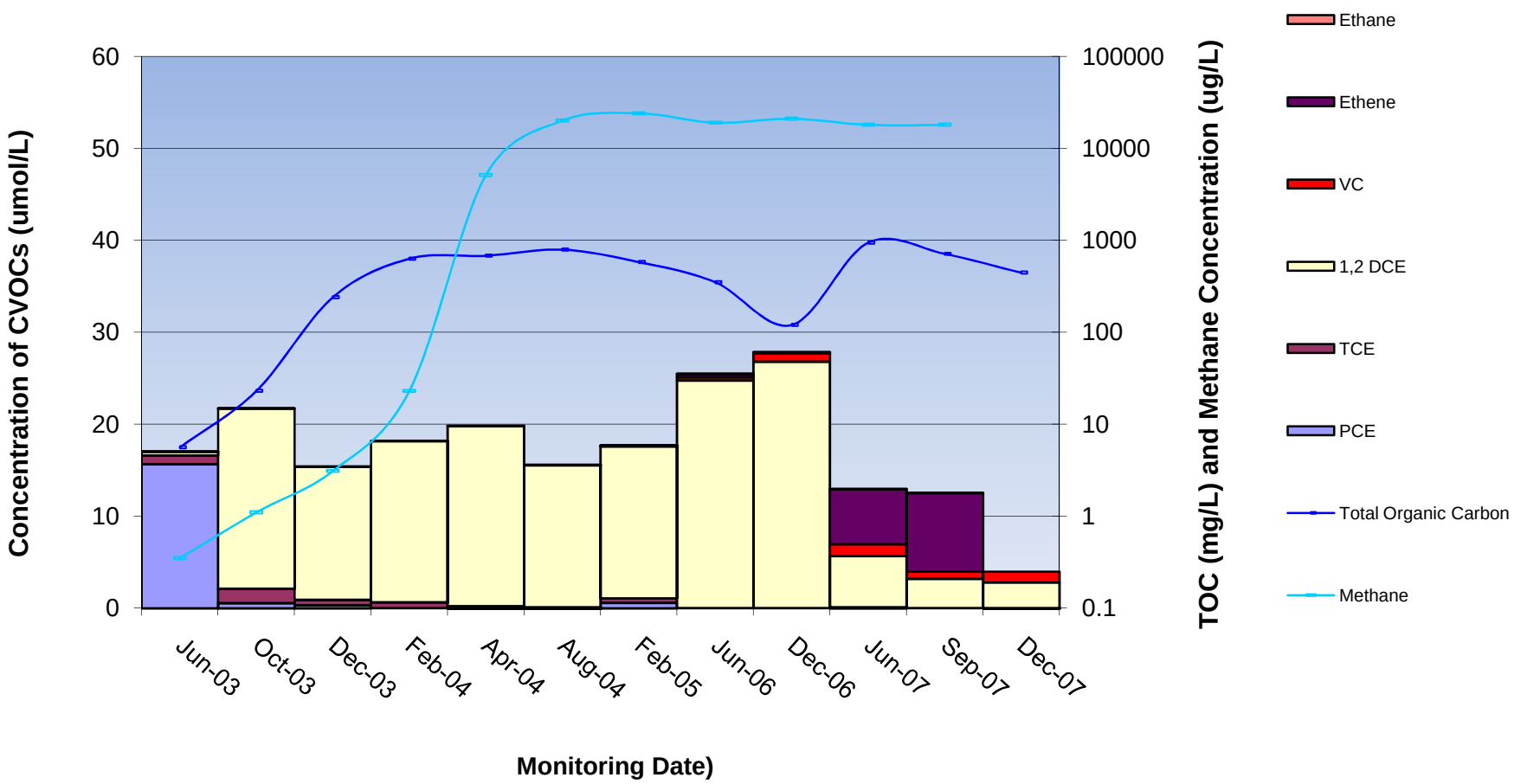

Figure B-9. Concentrations of PCE Daughter Products Versus Time in MW-13

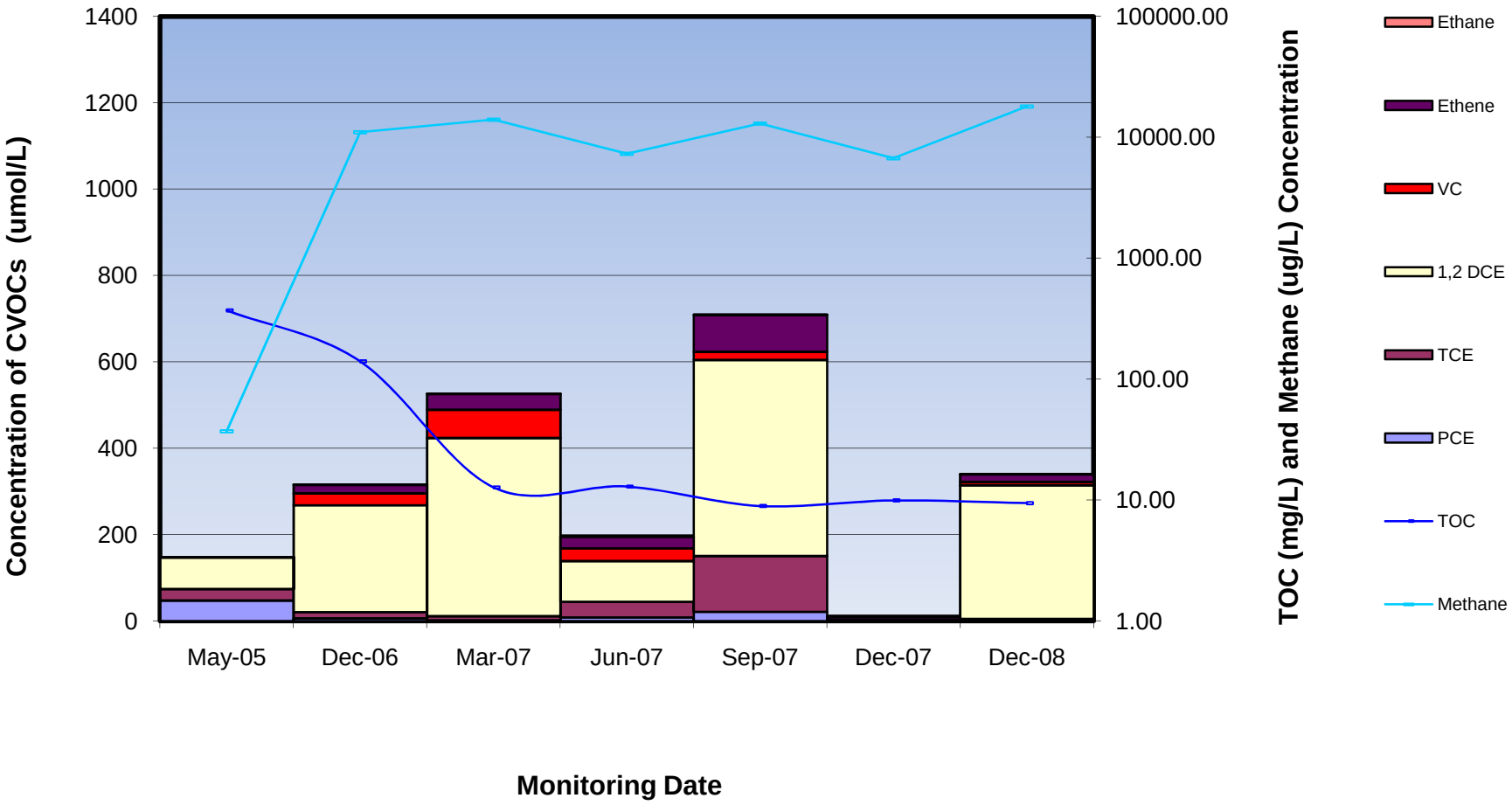

Figure B-10. Concentrations of PCE Daughter Products Versus Time in IW-17

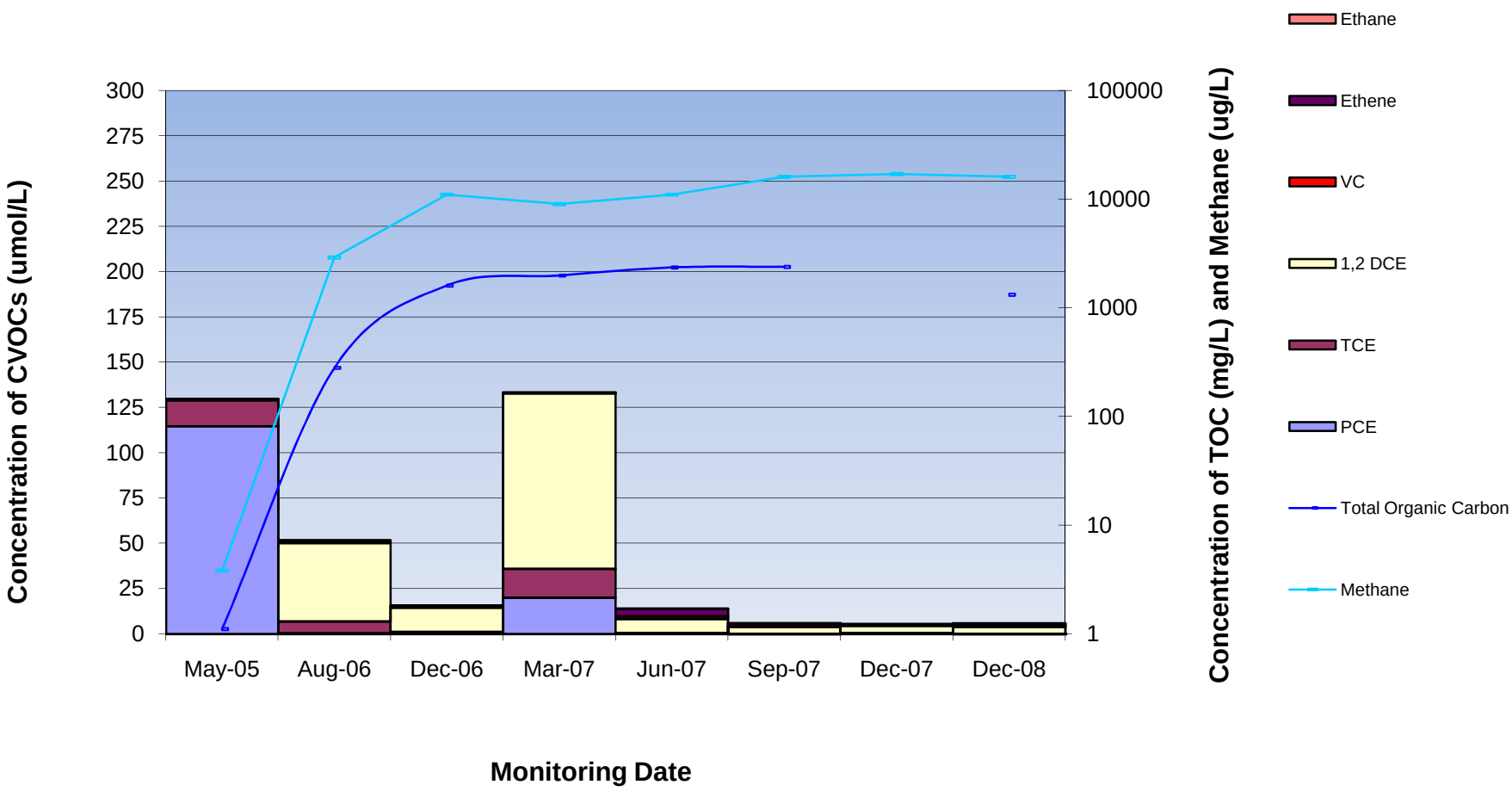

Figure B-11. Concentrations of PCE Daughter Products Versus Time in IW-24

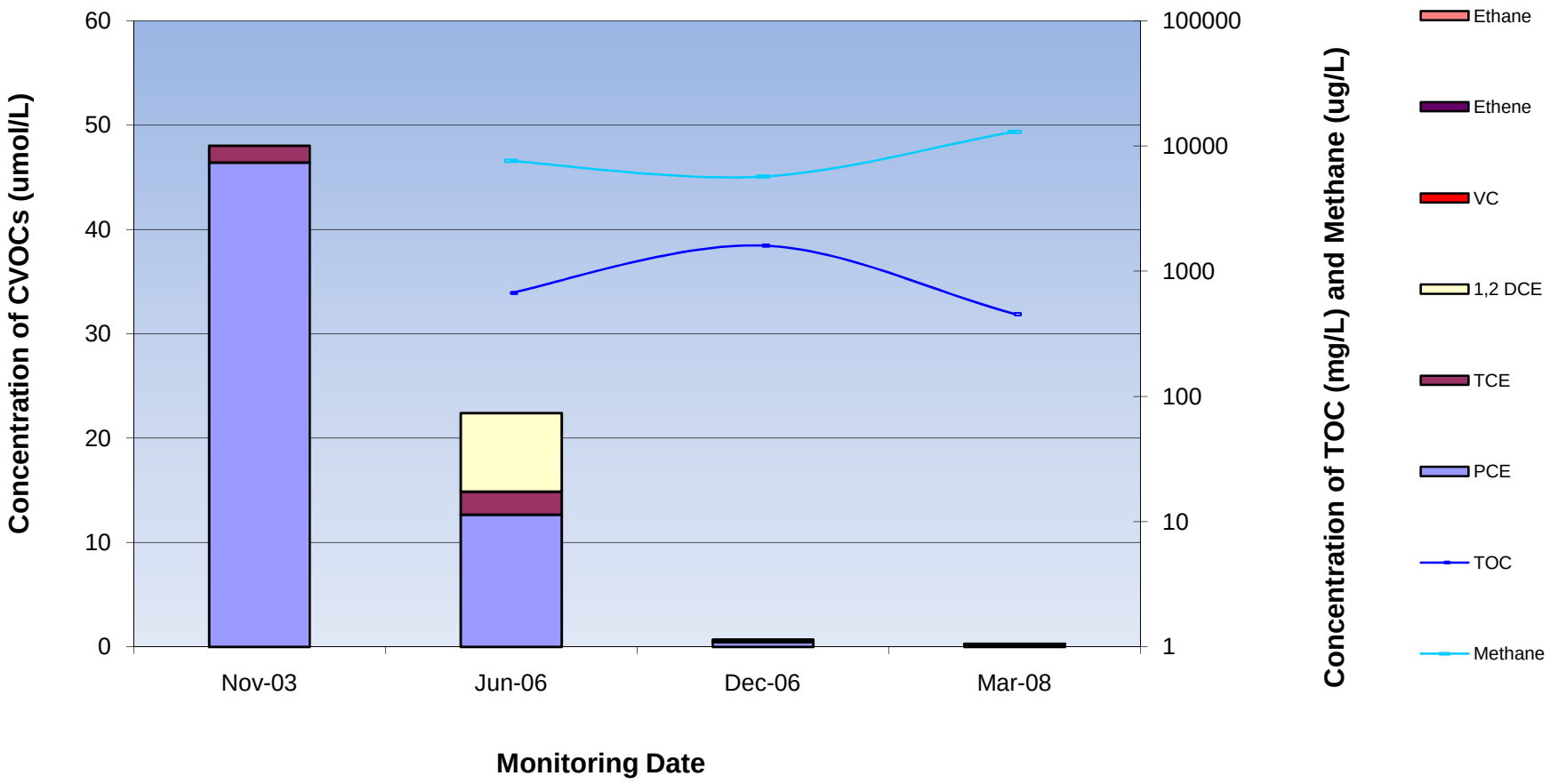

Figure B-12. Concentration of PCE Daughter Products Versus Time in MW-13D

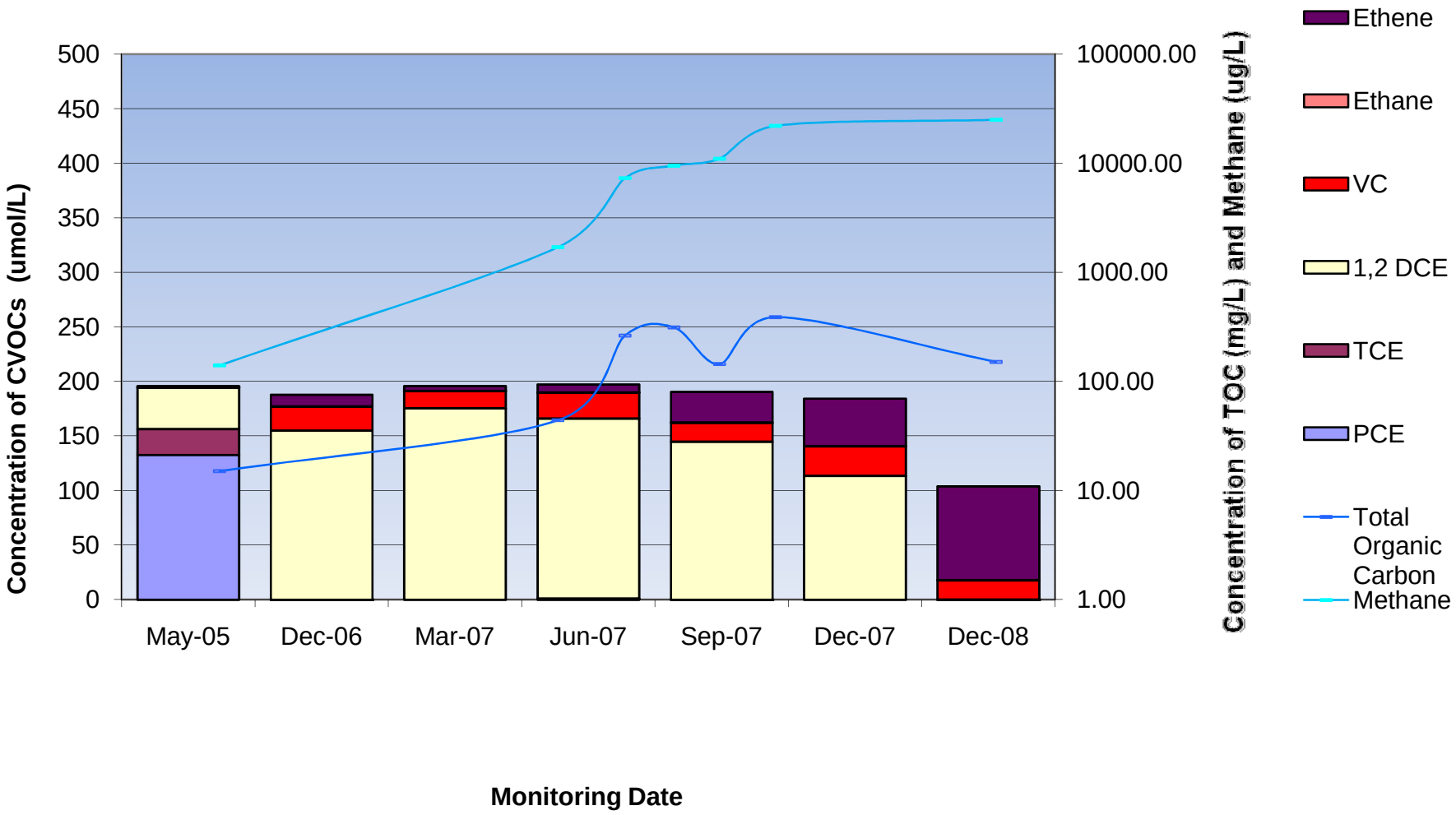

Figure B-13. Concentrations of PCE Daughter Products Versus Time in IW-18

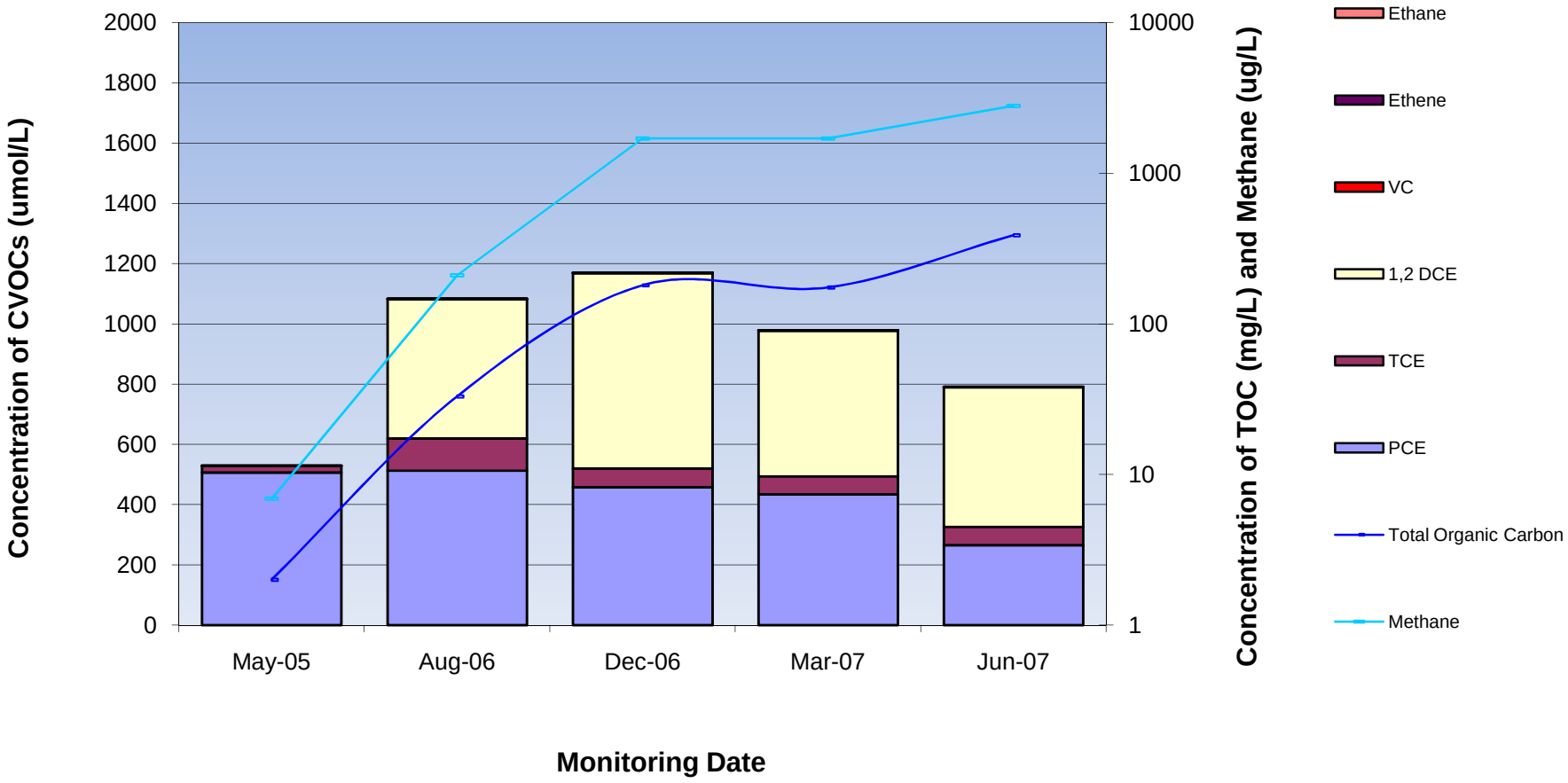

Figure B-14. Concentrations of PCE Daughter Products Versus Time in MW-19D Screened 160 to 170 FT BLS

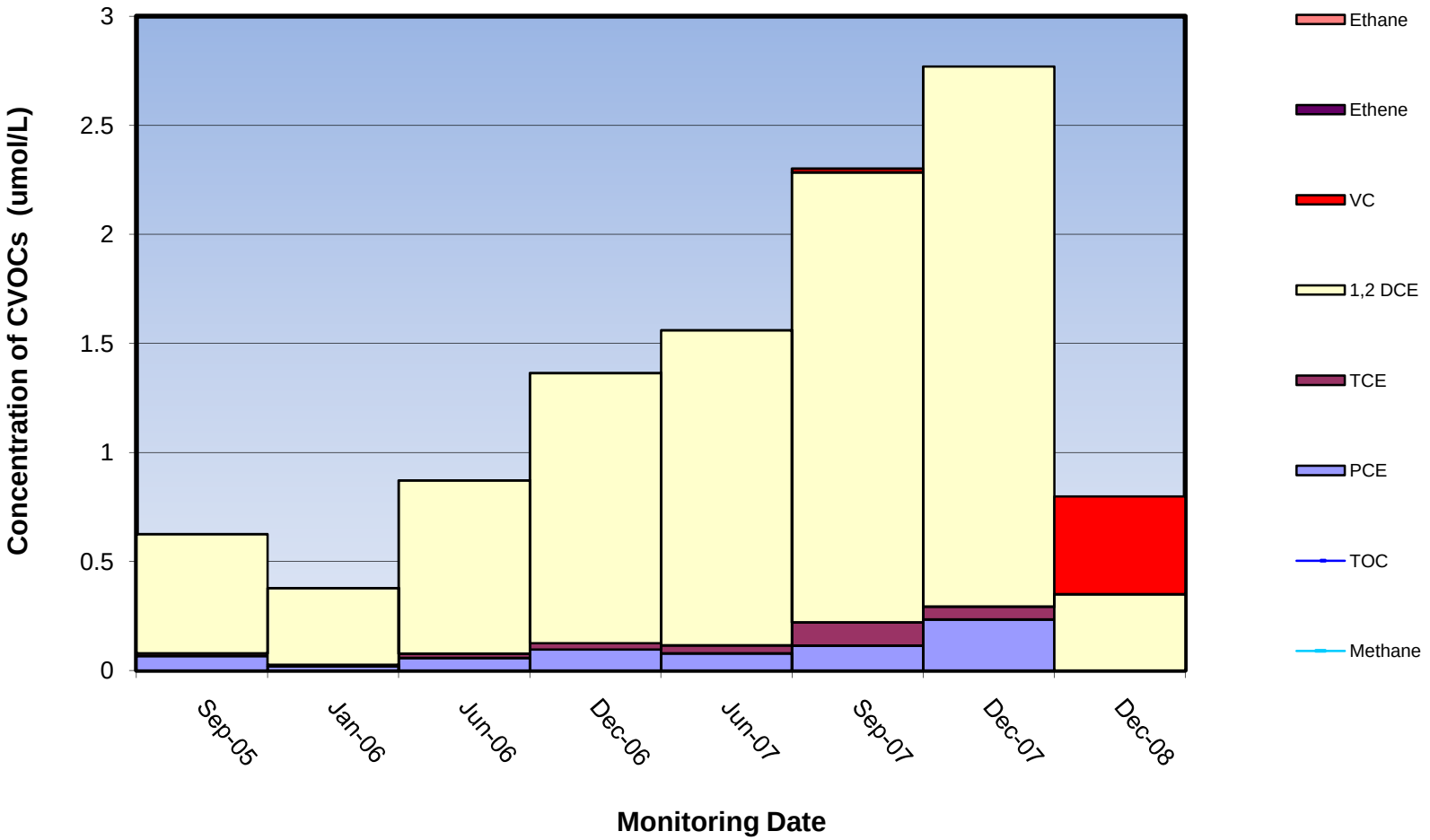

Figure B-15. Concentrations of PCE Daughter Products Versus Time in MW-20D Screened 175 to 185 FT BLS

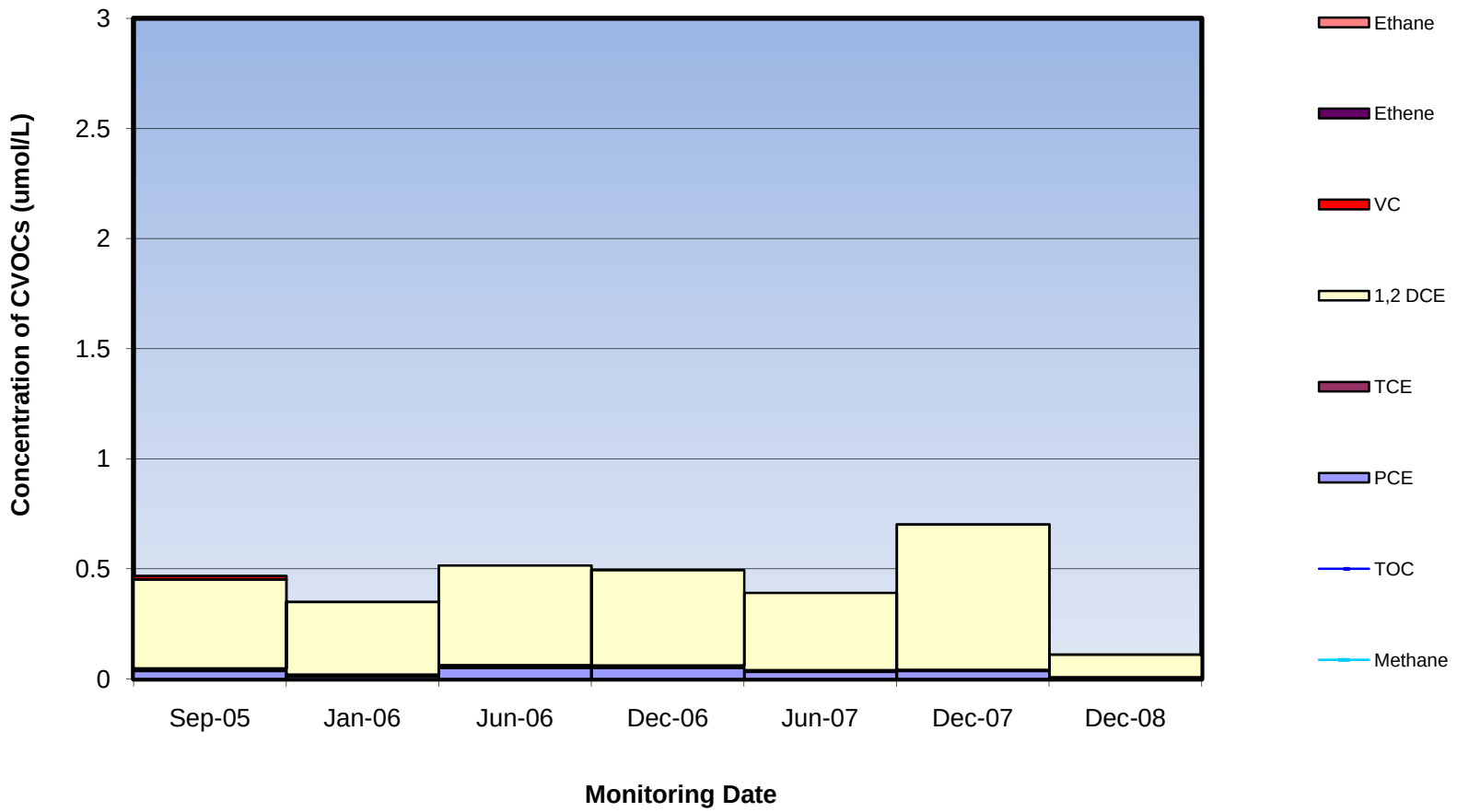

Figure B-16. Concentrations of PCE Daughter Products Versus Time in MW-18D Screened 133 to 143 FT BLS

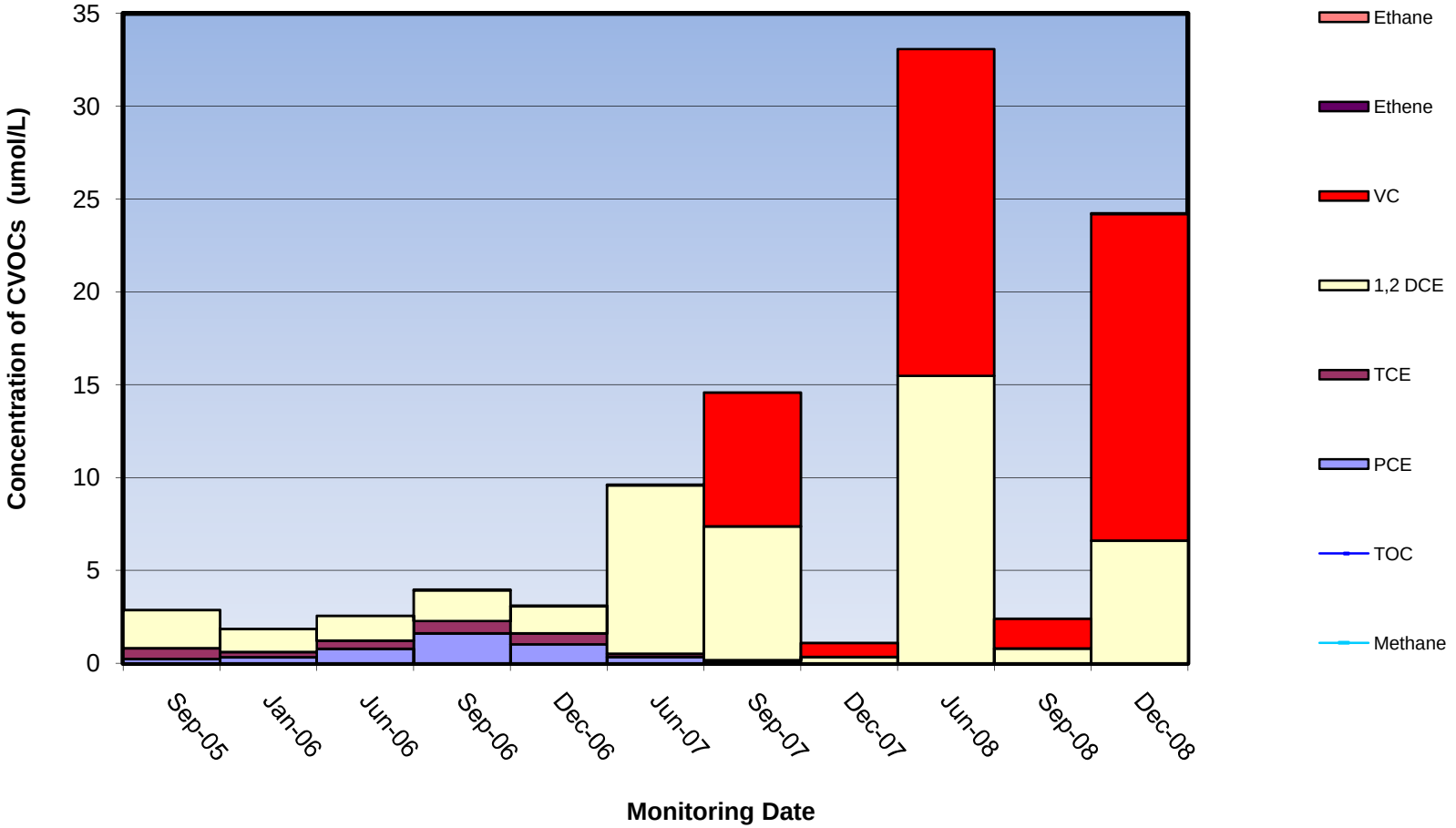

Figure B-17. Concentrations of PCE Daughter Products Versus Time in Former Diffusion Well - Screened 108 to 116 FT BLS