FINAL
SITE CHARACTERIZATION REPORT
40 & 50 ROSELLE STREET
(Site No.:1-30-174)
Mineola, New York

Prepared for

New York State Department of Environmental Conservation
Investigation and Design Engineering Services
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Section 1
Introduction

This Site Characterization Report was prepared for two adjacent properties identified as "40 and 50 Roselle Street"located in Mineola, New York (**Figure 1-1**). This report was prepared by Camp Dresser & McKee (CDM) for the New York State Department of Environmental Conservation (NYSDEC) under the Engineering Services for Investigation and Design Standby Contract No. D004437. On March 23, 2007, NYSDEC identified this location as a potential Inactive Hazardous Waste Disposal Site, and assigned the ID number 1-30-174. This Site Characterization Report follows the guidelines set forth in the "*Draft Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation, dated December 2002*".

The Site Characterization performed under this Work Assignment consisted of a public file records search, site survey, sampling and analysis of existing monitoring wells, collection and analysis of subsurface soil samples, shallow soil vapor sampling, and installation, development, and sampling of eight new groundwater monitoring wells. The records search report was submitted as a standalone document in February 2009. Results of the records report are also detailed in the operational history and previous investigations sections of this report.

This report is comprised of the following sections:

- **Section 1 – Introduction**
  This section presents the Site background and history, location, operational and remedial history, potential sources, as well as the project objectives

- **Section 2 – Physical Setting**
  This section presents the physical conditions of the Site and surroundings, including a general description of soils, geology, hydrogeology, and topography, as well as the groundwater level and flow direction

- **Section 3 – Site Investigation**
  This section provides the details of the investigation.

- **Section 4 – Analytical Results**
  This section presents and evaluates the analytical results of the soil, groundwater, and soil vapor samples collected at the Site in comparison to acceptable New York State standards

- **Section 5 –Conclusions and Recommendations**
  This section presents the conclusions based upon the analytical results of the Site investigation and presents recommendations for potential future work.

1.1 Site Description and Background

1.1.1 Site Description

The site is comprised of two adjacent properties located at 40 and 50 Roselle Street in the Village of Mineola, Town of North Hempstead, Nassau County, New York (**Figure 1-2)**. Site photos are included in **Appendix A**. The property to the west, 40 Roselle Street, occupies 0.394 acres and is identified on Nassau County land records as Section 9, Block 348, Lots 60-67 and 966-969 and 972. Presently the property contains a two-story factory/warehouse/office building with slab-on-grade construction. The first floor of the building is currently occupied by Flexite, a dental implants business; Toy Truck Sales, a retail toy sales company; Somar Insulation; and Pepperidge Farm which uses the space as a warehouse. The second floor space is reportedly vacant, and could not be accessed during the site visit. The property at 40 Roselle Street includes a parking lot to the west of the building, as well as the majority of the parking lot directly between 40 and 50 Roselle Street, located to the east of the building. The property lines are depicted in on Figure 1-2. The property is currently owned by ReKo Enterprises LTD.

The property to the east, 50 Roselle Street, occupies 0.422 acres and is identified in Nassau County records as Section 9, Block 348, Lots 50-58 and 973. The property includes a one-story building with slab-on-grade construction occupied by Lewis Oil Company for storage and repair of fuel delivery trucks and vans. There is also a parking lot to the east of the building, and a small gravel area to the west. The current owner of the property is Windsor Fuel Company Inc. Pension Trust.

The site is located in a mixed commercial and residential area, and is bordered to the north by Nassau County recharge basin no. 379. Following is a summary of the ownership information for the Site identified in Nassau County Tax Assessor records.

Address	Section/Block/Lot	Owner	Property Use
40 Roselle Street	9/348/60-67 and 9/348/966-969, 972	ReKo Enterprises LTD.	Light Manufacturing, Small Factory Buildings; Paving, Blacktop Or Fencing Used With Factories Or Industrial Buildings
50 Roselle Street	9/348/50-58, 973	Windsor Fuel Company Inc. Pension Trust	Light Manufacturing, Small Factory Buildings

1.1.2 Operational History

Both the 40 and 50 Roselle Street properties were developed in the 1950's. The following sections detail the site background and operational history at the properties.

1.1.2.1 40 Roselle Street

In the past, the building at 40 Roselle Street has been reportedly occupied by Fumex Pest Control, Xerox Corporation (office space) and a photoengraving facility. The property cards for this property indicate construction first occurred on the site in 1955

and the building was expanded with an addition on the west side of the building in 1963.

Garden Photoengraving Co. Inc. (Garden Photoengraving) occupied the site from about 1955 until at least 1977. It is expected that the photoengraving operations would have used various chemicals and metals, for example bromide of zinc, iodide of zinc, ether, alcohol, iodide of ammonium, bromide of cadmium, chloride of calcium, acetic acid, sulphate of iron, cyanide of potassium, bichloride of mercury, nitric acid, zinc, and magnesium. Solvents may also have been used.

From about 1982 to 1987, the site was occupied by Komar Productions and Universal Broadcasting. No additional public information is available about these occupants.

Fumex Termite and Pest Control (Fumex Pest Control) occupied the site from about 1992 to 1997. Fumex Pest Control, a large quantity generator of hazardous waste, reportedly stored pesticides and herbicides in cargo containers within the building and in sheds in the parking lot. Flexite Corporation (Rapid Injection Systems), a dental implants business, also occupied the site from at least 1992 to present.

40 Roselle Street previously utilized two sanitary systems, one located on the west side of the building containing one primary and two secondary cesspools (CP-1, CP-2 and CP-3) and one located on the east side of the building consisting of one primary and one secondary cesspool (CP-4 and CP-5). The locations of these cesspools are depicted on **Figure 1-3**. Sanitary discharge from the building was directed from CP-1 to overflow pools CP-2 and CP-3. Cesspool CP-3 is believed to have discharged to the municipal sewer system. A slop sink on the east side of the building discharged to CP-4 and CP-5. All of the Site's leaching systems were closed in 2002. Sanitary waste from the building is now reportedly discharged directly to the municipal sewer system for treatment and disposal.

The building also utilized two interior floor drains. One floor drain (FD-1) discharged directly to the ground beneath the building and the other (FD-2) discharged via pump to the recharge basin located north of the property.

A concrete catch basin (CB-1) is located in the alley on the northeast side of the Site building. This catch basin is believed to discharge to the recharge basin located to the north of the property.

At this time, the only known UST existing at this site is located beneath the parking lot near the northeast corner of the site building. This is a 1,000 gallon fiberglass fuel oil tank that was installed at the site in October, 2002.

In 1958, Garden Photoengraving had a gasoline underground storage tank and fuel pump installed on the east side of the building. Reportedly, the gasoline UST was abandoned in-place by filling it with concrete slurry in 1979. The location of this tank was later confirmed during an investigation at the site in 2004 (discussed in Section 2.2.1 below and depicted on **Figure 1-3**).

A former 1,000 gallon fuel oil tank was inadvertently removed by Tyree Brothers Environmental Services, Inc. in May 2002. There was also reportedly an abandoned fuel oil tank located adjacent to a loading bay door south of the former 1,000 gallon tank; however excavation in this area to a depth of seven feet failed to locate the UST.

1.1.2.2 50 Roselle Street

The building at 50 Roselle Street was constructed in 1955. From around the early 1960's until at least 1970, the site was occupied by Poper Aluminum, a metal door and window manufacturer. According to city directories, a knitting mill operated at the site from the 1980s until approximately 2000 when Lewis Oil Co. began using it for delivery truck repairs. The property has been connected to the County's sanitary sewer system since it was constructed in 1955.

The facility utilized a 250-gallon waste oil aboveground storage tank (AST), 330 gallon AST and 55 gallon AST inside the building since at least March 2006. According to the hazardous material storage permit for the site, the 330 gallon and 55 gallon ASTs store multiple chemicals. Prior to March 2006, there is a record of only the 250-gallon waste oil AST and a 1000-gallon fuel oil UST. It is presumed that the 1000-gallon UST listed in the records is actually the 550-gallon fuel oil underground storage tank that was removed from the parking lot to the west of the building in May 2008. No gasoline or diesel storage is known to have occurred on the property.

1.1.3 Previous Environmental Investigations

Environmental investigations to date at the two properties have focused upon underground storage tanks and the on-site disposal of wastes via cesspools and floor drains. As part of the record search, submitted in February 2009, CDM reviewed the following reports:

- *Phase II Subsurface Soil and Groundwater Investigation, Industrial Property, 40 Roselle Street, Mineola, NY*, prepared by Laurel Environmental Associates, dated November 19, 2001.
- April 2002 Investigation conducted by Tyree Brothers Environmental Services, Inc.
- *Underground Injection Control Remediation Summary Report, Industrial Property, 40 Roselle Street, Mineola, NY 11501*, prepared by Tyree Brothers Environmental Services, Inc, dated August 2002.
- *Groundwater Investigation and Source Identification, 40 Roselle Street, Mineola, New York*, prepared by P.W. Grosser Consulting Inc., dated December 2004.

Following is a summary of these investigations.

1.1.3.1 40 Roselle Street

2001 Investigation

The property at 40 Roselle Street has been the subject of several documented investigations. In 2001, as part of an investigation conducted by Laurel Environmental

Associates, a geophysical survey was conducted at the property by Nova Geophysical Inc. The survey identified five anomalies, four in the eastern parking lot and one anomaly in the western parking lot. The anomalies identified to the east of the building were believed to be an out of service heating oil underground storage tank (UST), an in-service fiberglass UST, an abandoned in place UST associated with 50 Roselle Street, and one unidentified anomaly located next to the site's former gasoline pump island. The anomaly identified on the west side of the building was suspected to be a possible gasoline UST

In order to investigate these areas, 13 soil borings (SB-1 through SB-13) were installed at the site to a maximum depth of 12 feet below ground surface (bgs). The sampling locations are depicted on **Figure 1-3**. Field screening at each location did not identify the presence of contamination. Soil samples from five of the 13 boring locations (SB-1, SB-3, SB-5, SB-10, and SB-13) were submitted for confirmatory laboratory analysis for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) via EPA Method 8021 and 8270, respectively. Samples at these locations were collected from eight to 12 feet below ground surface (bgs). The analytical results did not identify VOCs or SVOCs above laboratory quantitation limits in the soil samples.

The three cesspools (CP-1, CP-2, and CP-3), located to the west of the building, beneath the paved parking lot, were also inspected and sampled during the 2001 investigation. At the time that samples were obtained from the cesspools, no standing water was present. Samples were collected one foot into the soil at the bottom of the structures, approximately 13.5 to 18 feet bgs. Samples were analyzed for petroleum hydrocarbons, VOCs, SVOCs, and RCRA metals. Concentrations of several metals, including cadmium, silver, mercury, and chromium were identified above the NYSDEC recommended soil cleanup objectives (TAGM #4046 RSCOs) in CP-1. Chromium, mercury and silver also exceeded the cleanup criteria in CP-2 and CP-3, with concentrations decreasing from CP-1 to CP-2 and CP-3. Di-n-butyl-phthalate was also detected in CP-1 at a concentration exceeding the soil cleanup criteria. No other analyzed compounds were detected above the soil cleanup criteria. A summary of the results is provided in **Table 1-1**.

A sample was obtained from between one and two feet below grade from the floor drain discharging directly into the ground at the front of the building (FD-1). The sample was analyzed for VOCs, SVOCs, RCRA metals and TPH. Very low levels of trichloroethene (TCE) at 0.004 mg/kg) and tetrachloroethene (PCE) at 0.004 mg/kg) were reported, as well as phthalates, and mercury at 1.6 mg/kg and cadmium at 4.1 mg/kg. The results exceeding the RSCOs are summarized on **Table 1-1**. Because the floor drain on the north side of the building (FD-2) had a concrete bottom, it was not sampled.

Table 1-1
Soil Samples from Cesspools and Floor Drain, 2001

Parameter	CP #1	CP #2	CP #3	FD-1	NYSDEC RSCOs*
Depth (ft bgs)	**13.5-14.5**	**16.5-17.5**	**17-18**	**1-2**	
Cadmium	**2.3**	0.76	**1.1**	**4.1**	1
Chromium	**320**	**12**	**11**	8.6	10
Lead	450	7.1	4.5	25	SB
Silver	21000	4400	1100	2.2	SB
Mercury	**2.9**	**0.41**	**0.32**	**1.6**	0.1
Di-n-butyl phthalate	**8.3**	ND	ND	0.35	8.1

Results in mg/kg
*NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives (RSCOs)
SB – Site Background

During the 2001 investigation, Laurel Environmental collected groundwater samples at three locations: GW-1 located west of the Site, GW-2 located south of the Site building and GW-3 located southwest of the site as shown on **Figure 1-3**. Groundwater was encountered between 49 and 51 feet bgs at each location. The groundwater samples were analyzed for VOCs and silver. The results identified TCE at a concentration of 150 µg/L and naphthalene at a concentration of 120 µg /L in GW-2, exceeding the NYSDEC Ambient Groundwater Quality Standards.

Table 1-2
Groundwater Sample Results, 2001

Location/Depth below Ground Surface Analyte	GW-1 (50′-54′)	GW-2 (48′-52′)	GW-3 (48′-52′)	NYSDEC Groundwater Standards (1)
VOCs (µg/L)				
Chloroform	<1	<1	1	7
1,1,1-Trichloroethane	<1	4	<1	5
Trichloroethene	<1	**150**	<1	5
Bromodichloromethane	<1	<1	2	50
Tetrachloroethene	<1	2	<1	5
Chlorodibromomethane	<1	<1	2	50
Naphthalene	<1	**120**	<1	10
Acetone	22	<10	<10	50
n-Butylbenzene	<1	3	<1	5
Sec-Butylbenzene	<1	2	<1	5
Metals				
Silver (mg/L)	<.02	0.05	0.02	0.05

(1) TOGS 1.1.1, New York State Ambient Water Quality Standards and Guidance Values, Class GA, June 1998

April 2002 Investigation
In April 2002 Tyree Brothers Environmental Services, Inc. (TBES) investigated the two interior floor drains (FD-1 and FD-2), a concrete catch basin (DW-1), and the former

septic system. The discharge points of each of these structures were determined during the investigation.

The floor drain located in the sprinkler room (FD-1) was determined to discharge directly to the soil and floor drain 2 (FD-2) located in the boiler room, illegally discharged via a pump through a pipe into the recharge basin located north of the property. A soil sample collected from FD-1 contained TPH at a concentration of 140 mg/kg.

The concrete catch basin (CB-1) located on the east side of the building along the north property boundary was connected to an underground 8 foot by 12 foot drywell (DW-1). Soil samples were obtained from DW-1 and analyzed for TPH, VOCs, SVOCs, RCRA metals, pesticides and herbicides. The results identified arsenic (3.12 mg/kg), chromium (27.2 mg/kg), barium (12 mg/kg), lead (12.6 mg/kg), mercury (0.2 mg/kg), and silver (3.39 mg/kg) in the soil at DW-1. The chromium and mercury concentrations exceed the NYSDEC RSCOs.

TBES investigated the septic system located on the east side of the building and determined that it contained one primary and one secondary cesspool (CP-4 and CP-5) as shown on **Figure 1-3**. CP-4 was 4 feet in diameter by 12 feet deep and constructed of red brick. It was determined that this cesspool was connected to the building by a pipe. Cesspool CP-4 was connected to overflow pool CP-5 by a pipe. This cesspool was 5 feet in diameter by 15 feet deep and was constructed of cinder blocks. A soil sample collected from CP-5 contained elevated concentrations of TPH, chrysene (0.438 mg/kg), chromium (2230 mg/kg), mercury (0.41 mg/kg) and silver (92.3 mg/kg) in the soil at the bottom of the cesspool. The concentrations of chrysene, chromium and mercury exceeded NYSDEC RSCOs. No pesticides or herbicides were detected. A sample was not collected from CP-4.

Based on their investigation, TBES recommended that the Site cesspools, floor drains and drywell be cleaned and closed. Their report was submitted to the Nassau County Department of Health (NCDOH) and the U.S. Environmental Protection Agency (USEPA) who both provided responses describing required remediation work.

May 2002 Remedial Action

As a follow-up to their previous investigation, TBES conducted the remedial activities at the site in May 2002 requested by NCDOH and USEPA. This work was documented in the *Underground Injection Control Remediation Summary Report* prepared by TBES in August 2002. Their work included the removal of bottom sediments from the Site's five cesspools (CP-1, -2, -3, -4, and -5) and the on-site drywell (DW-1). In addition soil was removed from the bottom of the floor drain (FD-1) located in the sprinkler room and the outflow pipe from the floor drain in the boiler room (FD-2) was disconnected. The interior waste pipes and exterior sanitary traps/vents associated with the cesspools were abandoned and sealed with concrete, under NCDOH observation.

End point samples were collected from the bottom of each of the five cesspools and the floor drain following sediment removal. Sample concentrations exceeding the NYSDEC/Nassau County clean-up objectives are summarized below in **Table 1-3**.

Table 1-3
Endpoint Soil Samples from Cesspools and Floor Drain, 2002

Parameter	CP #1	CP #2	CP #3	CP #4	CP #5	FD #1	NYSDEC
Chromium (mg/kg)	4.45	3.67	5.13	**17**	**84.90**	-	10
Silver (mg/kg)	**72.90**	**34.70**	**20.30**	**10.20**	**7.14**	--	5(1)
Mercury (mg/kg)	**0.59**	0.04	0.03	**0.11**	0.05	**0.28**	0.1
TPH (mg/kg)				**1070**			1000(2)

NYSDEC – NYSDEC Technical Administrative Guidance Memorandum #4046 Recommended Soil Cleanup Objectives (RSCOs)

(1) Site-specific cleanup objectives for silver, as per Tyree Brothers Environmental Services' personal communication with John Lovejoy, Nassau County Department of Health ;

(2) Site-specific cleanup objective for TPH from the NCDOH Cleanup Guidelines for Remediation of Drywells and Individual Septic Systems, dated October 1, 1996 (Rec. 7/2/98).

2003 Investigation

P.W. Grosser Consulting, Inc. conducted an investigation in 2003, documented in *Groundwater Investigation and Source Identification,* during which they installed a boring through the center of CP-4 and collected soil samples every 2 feet from 18 to 50 feet bgs (where the water table was encountered). A groundwater sample was also collected from the boring location. The PCE and TCE concentrations in the soil samples collected from beneath the bottom of CP-4 are summarized in **Table 1-4**.

Table 1-4
Tetrachloroethene and Trichloroethene Results for Soil Samples beneath CP-4, 2003

Compound (mg/kg)	CP-04 (26'-28')	CP-04 (36'-38')	CP-04 (46'-48')	NYSDEC RSCO (1)
Tetrachloroethene	18.62	53.94	14.374	1.4
Trichloroethene	474	29.076	29.747	0.7

(1)NYSDEC Recommended Soil Cleanup Objectives from the Technical and Administrative Guidance Memo (TAGM) 4046/STARS #1 Consolidation Memo (12/2000)

Naphthalene and trimethylbenzene concentrations also exceeded NYSDEC's RSCOs between 46 and 48 feet bgs in the boring at CP-4. Visible petroleum contamination was observed at the soil-groundwater interface during drilling. PCE (9 µg /L), TCE (640 µg /L) and naphthalene (1,085 µg /L) were identified in the groundwater sample beneath CP-4 above NYSDEC GWQS.

2004 Investigation

In 2004, P.W. Grosser Consulting, Inc.'s (PW Grosser) evaluated impacts from historical wastewater discharge via CP-4, as well as potential impacts from the previously abandoned UST at the Site. The 2003 investigation had identified soil and groundwater contamination below CP-4. The report concluded that since aromatic hydrocarbon related contamination was not identified above 28 feet bgs, it was unlikely that naphthalene contamination identified in the soil at the water table

resulted from discharges to the cesspool. As such, PW Grosser evaluated whether the source of the contamination was from a reported abandoned UST located adjacent to the loading bay door or an abandoned UST that was associated with the adjacent Windsor Fuel Co. property. The scope of their investigation included the following:

- Excavation and removal of a suspected UST adjacent to the loading bay door
- Removal of a former gasoline pump island
- Confirmation of a properly abandoned gasoline UST located south of CP-4
- Locate and confirm the proper abandonment of a 550 gallon UST along the east end of the parking lot adjacent to Windsor Fuel Co, Inc.

Excavation in the area of the reported UST adjacent to the loading bay door failed to reveal an abandoned UST or other structure to a depth of seven feet bgs. No evidence of contamination was observed in this area. Two soil samples (T-1 and T-2) were collected from the east and south sides of the excavation at depths of 9'8" and 8'9", respectively (**Figure 1-3**).

The former gasoline pump island was excavated and removed. The piping associated with the island was traced 26 feet east to the abandoned UST. It was observed that the tank had been cut opened and filled with concrete slurry. There were no visual signs of contamination around the tank. A soil boring (GP-06) was installed south of the tank and sampled every in five foot intervals from four to 20 feet bgs. A soil sample from 16-20 feet bgs was submitted for laboratory analysis for VOCs by EPA Method 8021. The results did not identify analyzed compounds above the NYSDEC RSCOs. The boring location is shown on **Figure 1-3**.

Excavation in the vicinity of the reported abandoned 550 gallon UST next to Windsor Fuel Co Inc. exposed a tank sidewall and the southern end of the UST. No visible evidence of petroleum contamination was observed. A soil sample (T-3) was collected at a depth of 7.5 feet bgs from this excavation (**Figure 1-3**).

Samples T-1 through T-3 were analyzed for VOCs (EPA 8260) and SVOCs (EPA 8270) plus a library search (VOCs+10, SVOCs+20). The soil results from the three samples did not exceed the NYSDEC RSCOs.

PW Grosser conducted a subsurface investigation around CP-4 during which they installed seven borings (GP-01, -01A, 01B, -02, -03, -04, and -05) surrounding CP-4 at the locations shown on **Figure 1-3**. Borings GP-01A and -01B were added in order to investigate PID responses observed during the installation of GP-01. During drilling of GP-01 PID responses were observed from eight feet bgs to the depth of the boring. PID responses ranged from 20 ppm at 8 feet bgs to 440 ppm at 34 feet bgs. Boring GP-01A extended to 50 feet bgs and -01B extended to 34 feet bgs. PID responses were also elevated during drilling of GP-01A, ranging from 50ppm at 12 feet bgs to 700 ppm at 43 feet bgs. PID readings were 450ppm at the termination depth of the boring. PID

readings were significantly lower at boring GP-01B ranging from 3 to 15ppm, with the highest PID reading at 22 feet bgs.

A soil sample was collected from 32-36 feet bgs at GP-01, immediately above the water table (42-46 feet bgs) at GP-01A, and at the interval above boring termination (30-34 feet bgs) at GP-01B. Soil samples were also collected from 30-34 feet bgs from borings GP-02, -03, and -04 and from 32-34 feet bgs at boring GP-05, where a PID reading of 380 ppm was recorded. The soil sample results exceeding NYSDEC Recommended Soil Cleanup Objectives (RSCOs) are summarized on **Table 1-5**.

Table 1-5
Soil Samples Exceeding NYSDEC RSCO, 2004

Compound (mg/kg)	GP-01 (32′-36′)	GP-01A (42′-46′)	GP-05 (32′-34′)	NYSDEC RSCO (1)
1,3,5-Trimethylbenzene	**3.5**	3.1	0.290	3.3
Naphthalene(voc)	**590**	**1,300**	2.7	13
Sec-Butylbenzene	**36**	**91**	**24**	10
Tetrachloroethene	**61**	**2.8**	0.76	1.4
Trichloroethene	**49**	**20**	**0.72**	0.7
2-Methylnapththalene	**190**	**410**	1.5	36.4
Naphthalene(svoc)	**350**	**160**	ND (@ 32 mg/kg)	13

(1)NYSDEC Recommended Soil Cleanup Objectives from the Technical and Administrative Guidance Memo (TAGM) 4046/STARS #1 Consolidation Memo (12/2000)

Based on the distribution of naphthalene, PCE and TCE, and the direction of groundwater flow, P.W. Grosser Consulting concluded that the naphthalene in the soil and groundwater beneath the parking lot did not appear to have originated from CP-4; it was hypothesized that it originated from beneath 50 Roselle Street.

In 2004, Paul W. Grosser Associates installed four monitoring wells in the parking lot between the buildings at 40 and 50 Roselle Street, as shown on **Figure 1-3**. VOC and SVOC detections for the groundwater samples collected from these wells are summarized on **Table 1-6**.

Table 1-6
Groundwater Samples Exceeding Groundwater Quality Standards, 2004

Compound (µg/L)	MW-1	MW-2	MW-3	MW-4	NYSDEC Groundwater Standards (1)
Isopropylbenzene	<1	1	<10	<10	5
m + p Xylene	<2	2	<20	<20	10
Napthalene (voc)	1	**420**	**2000**	**3900**	10
n-Butylbenzene	<1	<1	<10	200	5
n-Propylbenzene	<1	1	<10	**11**	5
o-xylene	<1	4	**14**	<10	5
p-Isopropyltoluene	<1	1	<10	<10	5
Sec-Butylbenzene	<1	**22**	**140**	**81**	5
Tetrachloroethene	**29**	**150**	**45**	**43**	5
Trichloroethene	**120**	**1700**	**760**	**2300**	5
TVOC	151	2360	3118	6607	
Naphthalene (svoc)	1	**200**	**290**	**1400**	10

(1)NYSDEC Class GA Groundwater Quality Standards, TOGS 1.1.1, June 1998

The results of the Paul W. Grosser investigation indicate that elevated levels of VOCs including naphthalene were observed in groundwater beneath the parking lot east of 40 Roselle Street.

1.1.3.2 50 Roselle Street

On May 13, 2008, the abandoned heating oil UST located on the west side of the Windsor Fuel Co, Inc. was removed by Milro Associates. NYSDEC was onsite to observe the UST removal activities and collect split samples. No evidence of contamination was observed during the UST removal.

Following removal of the UST, post excavation soil samples were taken. One soil sample was collected from each of the excavation sidewalls (SW-N, SW-S, SW-W, and SW-E) and one sample was collected from the excavation bottom (Bottom). The samples were analyzed for VOCs and SVOCs by EPA Method OLM03.0.

The sample results identified an estimated concentration of 0.002 mg/kg PCE in sample SW-S and 0.001 mg/kg PCE in the bottom sample. Fluoranthene was detected at an estimated concentration of 0.071 mg/kg in sample SW-S. Di-n-butyl phthalate was detected at a concentration of 0.16 mg/kg in sample SW-E, 0.067 mg/kg in SW-W and 0.082 mg/kg in the bottom sample. Several tentatively identified compounds (TICSs) were also identified in SW-W and SW-E. None of the results exceeded NYSDEC RSCOs.

1.2 Project Objectives

The objective of this work assignment was to characterize the site known as 40 and 50 Roselle Street to determine whether the site has been impacted by previous onsite operations and more specifically, determine whether the site should be listed as a New York State Hazardous Waste Site. The tasks conducted for this work assignment included:

- **Task 1 – Work Plan Development**

  A site-specific work plan including a site specific Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP) were developed.

- **Task 2 – Records Search**

  Pertinent public record files were identified and reviewed to determine the existence of site plans that indicate the presence of underground storage tanks, drains, dry wells, underground pipelines or other possible waste disposal receptacles, previous environmental complaints, violations, fines, penalties, or emergency response actions. Facility occupants were also identified to the extent possible to identify a history of site use and contaminants used/stored on-site. The record search report was provided to NYSDEC as a standalone document, submitted in February 2009.

- **Task 3 – Field Investigations**

Task 3.1 - Site Survey/Monitoring Wells Sampling

Site features and sampling points were surveyed to develop horizontal and vertical control. The four existing monitoring wells were surveyed and gauged to refine the previously reported direction of groundwater flow and groundwater was sampled and analyzed for VOCs to assess existing groundwater quality. Samples from the two southern-most wells were also analyzed for metals to assess whether the groundwater was impacted by historical releases from the now-closed cesspool system.

Task 3.2 - Monitoring Well & Soil Boring Installation, Sampling and Analysis

A total of eight groundwater monitoring wells were installed using a hollow stem auger drill rig to depths ranging between 50 and 72 feet below ground surface:

- Two wells were installed north of 40 and 50 Roselle Street to characterize upgradient groundwater quality

- Three wells were installed on-site to characterize groundwater quality downgradient of previously suspected contaminant source areas

- Three wells were installed off-site, downgradient of 40 and 50 Roselle Street to characterize groundwater quality leaving the site.

The wells were gauged and surveyed to refine the direction of groundwater flow. Samples were also collected from all eight wells and analyzed for VOCs. Samples from the northernmost (upgradient) well, wells in the parking lots to the west and the east of 40 Roselle Street, and the southwestern most (downgradient) well were also analyzed for metals to assess whether the groundwater has been impacted by historical discharges from the cesspool systems.

Vertical profiles of the groundwater at all eight monitoring well locations were developed with 32 samples submitted for VOC analysis;

Soil samples were collected from the three on-site wells and analyzed for VOCs and SVOCs to characterize any on-site soil contamination resulting from on-site release of contaminants in the unsaturated zone.

One soil boring was completed on-site and four samples were collected and analyzed for VOCs and SVOCs to assess on-site contamination in the unsaturated zone in the area where the highest levels of naphthalene and trichloroethylene were previously reported. One soil sample was also collected from the floor drain located inside the 40 Roselle Street building, and was analyzed for VOCs and metals.

Task 3.3 – Soil Vapor Investigation

Soil vapor samples were obtained from approximately eight feet below grade (e.g., the approximate level of a basement floor) in the 50 Roselle Street east parking lot and from the southern end of the middle parking lot. One sub-slab vapor sample was collected from beneath 50 Roselle Street and two sub-slab vapor samples were collected from beneath 40 Roselle Street to collect the data necessary to assess the potential for soil vapor intrusion. In addition, soil samples were collected from the two parking lot locations to provide additional data to characterize the potential for soil vapor intrusion. Vapor samples were analyzed for VOCs using EPA Method TO-15 and soil samples were analyzed for VOCs using EPA Method 8260B.

- **Task 4 – Field Documentation and Site Characterization Report**

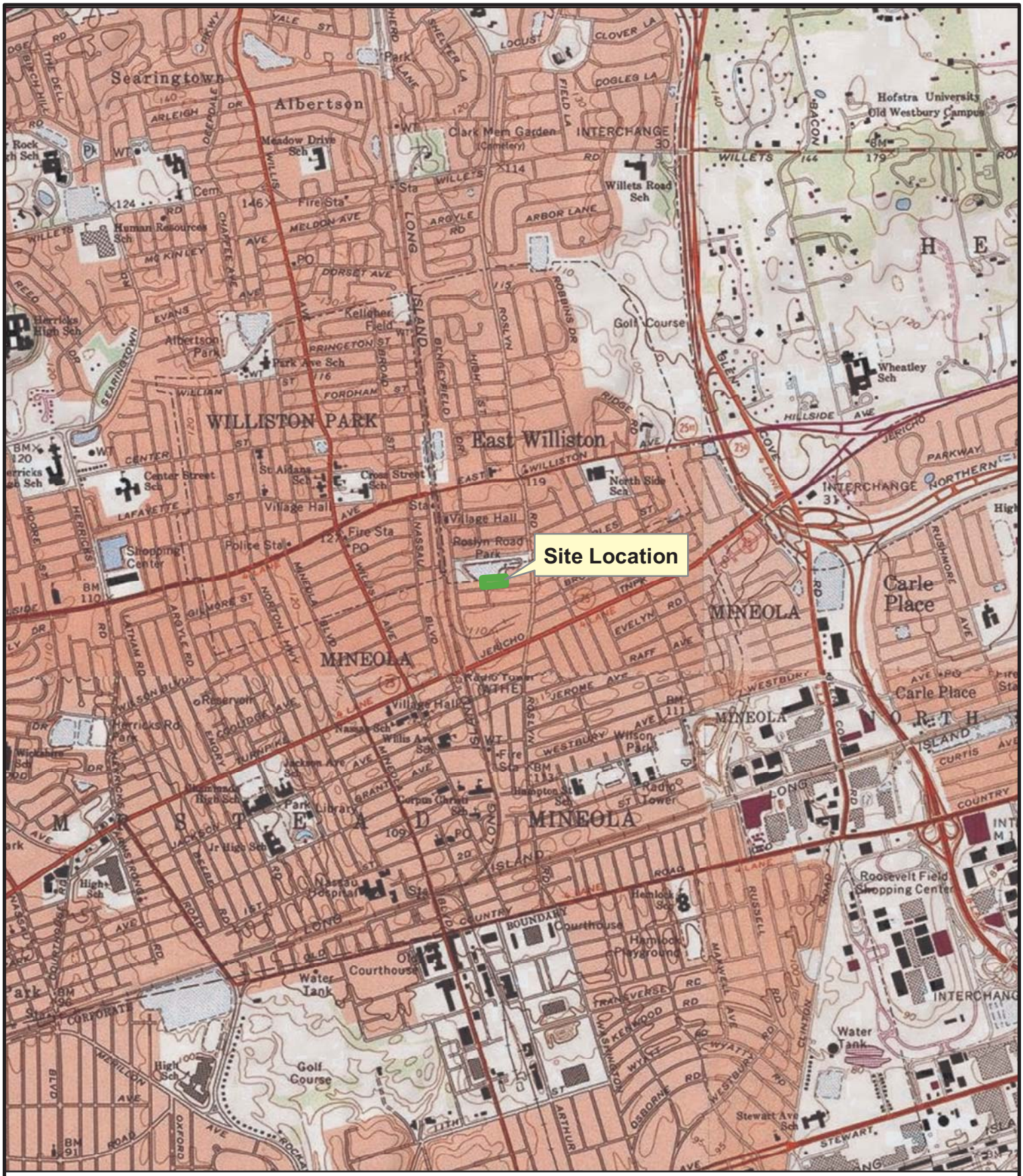
Following the performance of the field investigation and the receipt of validated laboratory analytical data, CDM is presenting the results in this draft **Site Characterization Report**. This report adheres to guidelines provided in DER-10 section 3.13 and includes:

- A description of the tasks performed.
- Results of the records search.

- Results of the sampling and analysis of the groundwater, subsurface soil and soil vapor sampling data.

- Conclusions and recommendations.

C:\40_50_Roselle_Street\GIS\Site_Vicinity_Map.mxd



Source: US Geological Survey 7.5-Minute
Lynbrook, Seacliff, Hicksville and Freeport Quadrangles

N

0 1,000 2,000
Feet

CDM

Figure 1-1
Site Vicinity Map
40 & 50 Roselle Street
Mineola, Nassau County, New York

C:\40_50_Roselle_Street\GIS\Site_Location_Map.mxd

Orthoimagery Source: NYS GIS Clearinghouse 2007

Site Outline

N

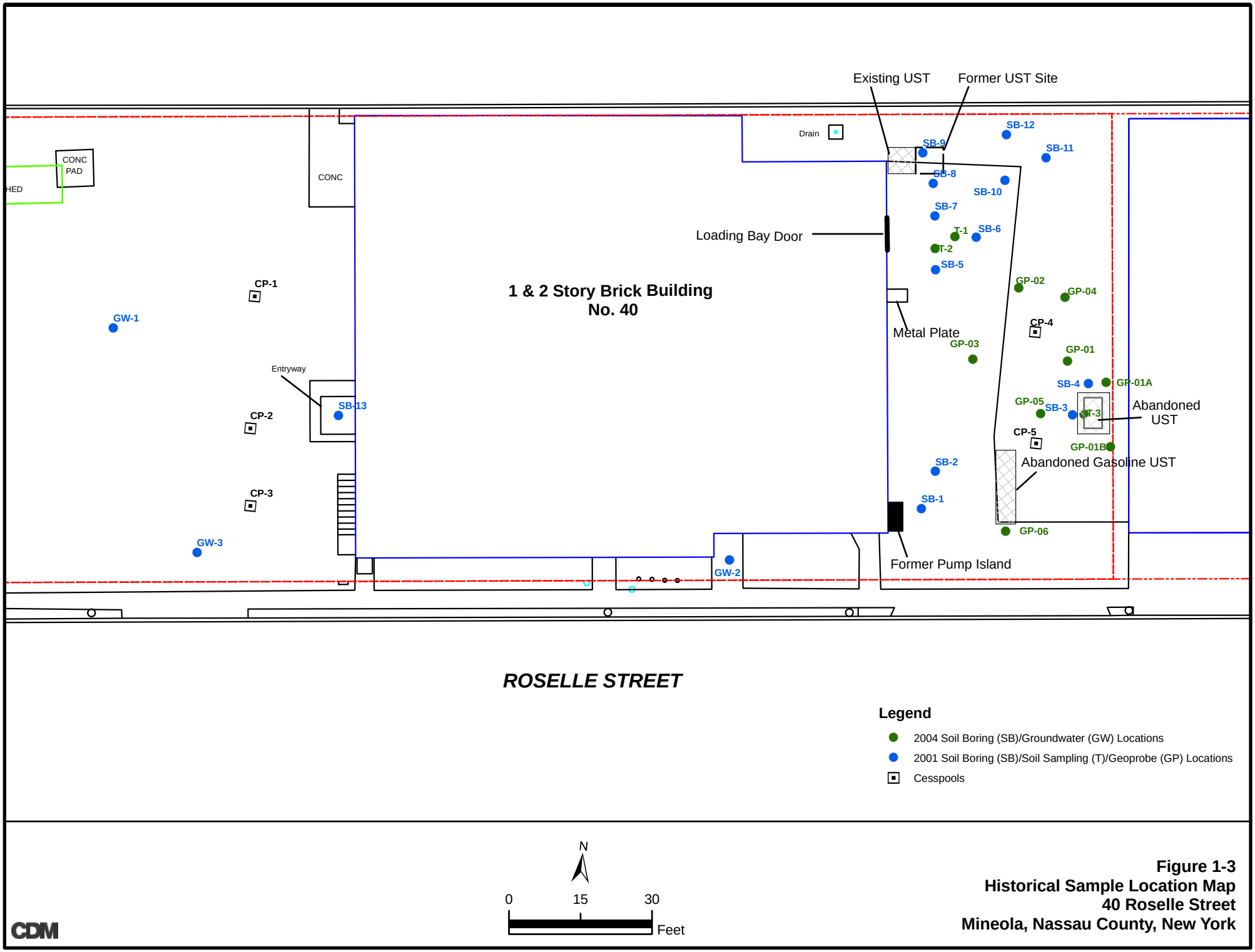
0 125 250

Feet

CDM

Figure 1-2
Site Location Map
40 & 50 Roselle Street
Mineola, Nassau County, New York

C:\40_50_Roselle_Street\GIS\Figure_1-3_Historic_Sample_Location_Map.mxd



CDM

Figure 1-3
Historical Sample Location Map
40 Roselle Street
Mineola, Nassau County, New York

Section 2
Physical Setting
2.1 Environmental Setting

The geology and hydrogeology of Long Island have been well documented over the years by the United States Geological Survey (USGS) and others. Investigations to date have focused on the shallowest of the island's three major aquifers, the upper glacial aquifer. The upper glacial aquifer, the surficial water bearing unit, is generally a highly permeable, unconfined unit.

Previous reports indicate that the subsurface soil at the site is comprised of a sandy material with some fine gravel extending down to groundwater, which was present at approximately 42 to 50 feet bgs. Groundwater flow in the area is to the southwest.

Two public supply wells (N-00097 and N-08576) have been located approximately 2,500 feet downgradient of the site; both are screened within the deeper Magothy aquifer.

2.1.1 Geology

Long Island is comprised of Cretaceous and Pleistocene unconsolidated deposits underlain by Early Paleozoic to Precambrian bedrock. The hydrogeology of Long Island has been well documented over the years by the USGS (Doriski and Wilde-Katz, 1983; Smolensky et al, 1989). Three major aquifers are present on Long Island: the upper glacial aquifer, the Magothy aquifer, and the Lloyd aquifer.

Soils Observed On-Site

Soils from soil boring GP-6, soil vapor points SV-1 and SV-2, and monitoring wells MW-5, MW-6, and MW-7 were logged and described during soil sampling activities. The soils observed on-site were fairly homogeneous in most areas and consisted of brown to dark brown, medium to fine, poorly graded sand with gravel in some areas. Soils observed in MW-7 were the exception, containing more clay than in the other areas. Soils in MW-7 were classified as clayey sands and sands with clay in the first 17 feet and poorly graded sands from 17 to 45 feet bgs. Soil boring diagrams are included as **Appendix B** of this report.

Bedrock

The base of Long Island's aquifer system is Early Paleozoic (Ordovician and Cambrian) to Precambrian crystalline metamorphic and igneous rock, predominately schist, gneiss, and granite (Smolensky et al, 1989). The bedrock is relatively impermeable and is not known to transmit or store significant amounts of groundwater. Sections of the bedrock have been highly weathered, forming saprolite that has been removed in many places by glacial scouring. Glacial scouring has also left several buried valleys that have been subsequently filled by silt and clay. The bedrock slopes to the southeast, and overlying unconsolidated deposits thicken to the south.

2.1.2 Hydrogeology

Lloyd Aquifer

The Lloyd Sand Member of the Raritan Formation of the Late Cretaceous Age overlies the saprolitic bedrock surface and is Long Island's deepest aquifer. The Lloyd sand was deposited as a series of braided streams and deltaic deposits consisting of white and pale yellow sand with interbedded lenses of gravel and white clay (Smolensky et al, 1989). The aquifer does not outcrop on Long Island and is believed to extend to the north beneath Long Island Sound in eastern Nassau County and in Suffolk County, and offshore to the south, beyond the barrier beaches. The Lloyd aquifer is confined in most places, except where the overlying Raritan clay has been eroded away. The thickness of the Lloyd aquifer varies from 0 feet where it is not present along the north shore of Nassau County, to more than 500 feet in the southeastern areas of Nassau County. The average horizontal hydraulic conductivity is reported to be approximately 40 ft/day with a 10:1 vertical anisotropy.

Raritan Clay

Overlying the Lloyd aquifer is the Cretaceous Age clay member of the Raritan Formation, referred to as the Raritan clay. The Raritan clay is the major confining unit on Long Island, ranging between 150 and 250 feet in thickness. Like the Lloyd aquifer, the Raritan clay is absent from areas of northern Queens and northern Nassau County where it had been eroded. The Raritan clay outcrops in parts of Queens, and is believed to be present north of the island beneath Long Island Sound, and south of the island, beneath the barrier islands. This confining unit consists of solid, multicolored, compact clay (gray, white, red, or tan) with interbedded lenses of sand. The average vertical hydraulic conductivity is reported to be approximately 0.001 ft/day.

Magothy Aquifer

The Magothy aquifer is an upward fining sequence of the Cretaceous Age Matawan Group consisting of fine to medium grained quartz sand, silt, clay, and gravel and is up to 1,100 feet thick. The base of the Magothy is very coarse, having been deposited in a high-energy environment involving stream and deltaic deposition. This high-energy deposition abruptly ended as fine sands, silts and clays form the majority of the unit. The Magothy Aquifer is unconfined in the site area. The Magothy aquifer is the principal water supply aquifer in Nassau and Suffolk Counties, attributing to its thickness. Its average horizontal hydraulic conductivity is reported to be approximately 50 ft/day with a vertical anisotropy of 100:1 (Smolensky et al, 1989).

Upper Glacial Aquifer

The upper glacial aquifer is the surficial unit on Long Island and is therefore entirely unconfined. Along the Harbor Hill and Ronkonkoma terminal moraines and parts of the north shore, the unit is composed of till consisting of poorly sorted clay, sand, gravel, and boulders. The till is generally poorly permeable and may contain perched water. The outwash deposits that are found are mainly between, and south of, the moraines. The outwash deposits are moderately to highly permeable, consisting of gray, brown, and yellow fine to very coarse sand and gravel. The upper glacial

aquifer ranges up to 600 feet thick, however the saturated thickness is often much lower. The estimated average horizontal hydraulic conductivity generally exceeds 225 ft/day.

Groundwater

Based on Nassau County regional groundwater information obtained in the *Nassau County Groundwater Monitoring Program, 2002-2003* (NCDPW, 2005) the water table lies at an elevation of 70 to 80 feet above mean sea level (MSL). It was expected, based on this historical information, that groundwater flow at the site would be to the south-southwest.

The EDR report provided information on several USGS wells and former public supply wells in the vicinity of the site. The well depths vary from 42 feet bgs to 500 feet bgs with depth to groundwater consistently around 50 feet bgs. The wells located closest to the site include the following:

Well	*Location*	*Type*	*Depth (ft)*	*Aquifer*
N 5244.1	Southeast	Not Reported	69	Upper Glacial
N 1138.1	Southwest	Not Reported	49	Upper Glacial
N 1138.2	Southwest	Not Reported	64	Upper Glacial
N 8248.1	Northwest	Not Reported	400	Magothy
N 8044.1	North	Not Reported	Not Reported	Upper Glacial
N 9942.1	South	Not Reported	69	Upper Glacial
N 97.1	South	Confined Single	375	Magothy

A public supply well (NY0002858) is located less than a half mile from the site. Four State supply wells were also identified in the EDR report. The wells are identified with well ID NYWS006209, NYWS006171, NYWS006170, and NYWS006185. Groundwater extraction from local public supply wells can influence groundwater flow at the site.

Groundwater Contour Plots

A synoptic round of groundwater measurements was collected from MW-1 through MW-12 on February 2, 2009. A table of the measurements collected during this synoptic round of groundwater sampling is presented in **Table 2-1**. The groundwater elevation ranged from 64.14 to 63.76 feet above mean sea level (depth to groundwater ranged from 36.56 feet bgs to 42.28 feet bgs). A groundwater contour plot was generated from these depth to groundwater measurements and is included as **Figure 2-1**. This plot shows groundwater flowing to the south-southwest. The slightly higher than expected water level measurements in MW-3 and MW-4 are probably within the margin of error of the groundwater measurements.

C:\40_50_Roselle_Street\GIS\Site_Location_Map.mxd

Orthoimagery Source: NYS GIS Clearinghouse 2007

Site Outline

Monitoring Well

Contour (feet amsl)

(63.76) Groundwater Elevation (feet)

N

0 35 70

Feet

CDM

Figure 2-1
Groundwater Contour Map
40 & 50 Roselle Street
Mineola, Nassau County, New York

Table 2-1
Synoptic Round of Water Level Measurements, February 2, 2009
40 & 50 Roselle Street
Mineola, New York

Well I.D.	PID (PPM)	DTW	DTB
MW-1	0	41.73	52.91
MW-2	4.5	41.95	55.81
MW-3	1	41.67	54.89
MW-4	2.7	41.61	55.69
MW-5	0.4	41	69.41
MW-6	0.1	42.12	47.39
MW-7	0.3	42.28	68.21
MW-8	0.3	42.13	47.26
MW-9	1	36.56	72.05
MW-10	0.8	40.32	72.27
MW-11	0.3	41.8	49.95
MW-12	0.9	41.93	49.57

PPM - Parts per million
DTW - Depth to water
DTB - Depth to well bottom

Section 3
Field Investigation

3.1 Sub-Surface Field Investigation

The following subsections describe the field investigation that was conducted from December 1, 2008 through February 4, 2009 by CDM. The investigation was conducted in accordance with the October 2008 Site Characterization Work Plan. The field investigation included the following:

- Site survey and groundwater sampling of four existing monitoring wells (MW-1 through MW-4).
- Vertical profiling of the groundwater at the eight new monitoring well locations (MW-5 through MW-12), with 30 samples submitted for VOC analysis.
- Collection of soil samples during drilling at MW-5, MW-6 and MW-7 with samples submitted for VOC and SVOC analysis; Soil samples collected at WM-5 and MW-6 also submitted for Metals analysis.
- Advancement of one on-site soil boring (GP-06) with five soil samples submitted for VOC and SVOC analysis.
- Installation of eight monitoring wells on and off the site (MW-5 through MW-12).
- Collection of soil vapor samples from approximately eight feet below grade in the 50 Roselle Street east parking lot (SV-02) and southern end of the parking lot between 40 and 50 Roselle Street (SV-01) with samples submitted for VOC analysis.
- Collection of two sub-slab vapor samples from beneath 40 Roselle Street (SSV-01 and SSV-02) and one sub-slab vapor sample from beneath 50 Roselle Street (SSV-03) with samples submitted for VOC analysis.
- Collection of a soil sample (FD-S-01) three feet beneath the floor drain at 40 Roselle Street.
- Survey of all sampling points.

These samples were collected in accordance with the CDM Generic Quality Assurance Project Plan (QAPP) dated February 2008 which has been provided to NYSDEC for Contract Number D-004437 and referenced within the Site Characterization Work Plan. A summary of the samples collected during the investigation is provided in **Table 3-1**. Photographs taken during the field investigation are provided in **Appendix A**.

3.1.1 Geophysical Survey

A geophysical survey utilizing ground penetrating radar (GPR) and electromagnetic conductivity (EC) was conducted at the site on November 25, 2008 by Advanced

Geological Services (AGS) to identify underground utilities, water lines, underground storage tanks and/or any large anomalies such as conduits. The geophysical survey was primarily performed to clear boring locations prior to drilling, since the One-Call service does not mark out utilities beyond the street. Subsurface utilities were marked within 15 feet of each proposed location to allow for the relocation of borings should refusal be encountered during drilling.

3.1.2 Soil Sampling and Groundwater Profiling

A subsurface soil and groundwater investigation was conducted at the site to determine whether groundwater and soils have been impacted by current and historic uses of the site and to determine if applicable criteria and guidance values (SCGs) are exceeded. If possible, the investigation would also identify the source of the groundwater contamination documented during the 2001 and 2004 sampling events.

The investigation included installing one soil boring on the site (GP-06) to assess on-site contamination in the unsaturated zone in the area where the highest levels of naphthalene and trichloroethylene were previously reported (the area near former CP-4 and the former UST associated with 50 Roselle Street). The investigation also included the groundwater profile samples at eight locations, where monitoring wells MW-5 through MW-12 would be installed. The results of the groundwater profile sampling would be used to determine the interval within the aquifer where the wells would be screened. Soil samples were collected from every ten foot interval from ground surface to the top of the water table at the onsite groundwater profile/monitoring well locations (MW-5, MW-6 and MW-7). A summary of soil and groundwater profile samples collected is included in **Table 3-1**. The sample locations are shown on **Figure 3-1**.

The groundwater profile/ monitoring well locations are located as follows:

- MW-8 and MW-9 installed north of 40 and 50 Roselle Street to characterize upgradient groundwater quality;
- MW-5, MW-6, and MW-7 installed on-site to characterize groundwater quality downgradient of previously suspected contaminant source areas;
- MW-10, MW-11, and MW-12 installed off-site, downgradient of 40 and 50 Roselle Street to characterize groundwater quality leaving the site;

3.1.2.1 Drilling and Soil Sample Collection

Soil borings were advanced at locations MW-5, MW-6, MW-7, and GP-06 using direct push drilling methods. Between December 1, 2008 and December 10, 2008 Aztech Technologies (Aztech) of Ballston Spa, NY used a track mounted direct push rig with five-foot macro core samplers to collect subsurface soil samples from these four locations to a depth of between 40 and 45 feet bgs. As the soil cores were extracted, CDM field screened the soil core with a photoionization detector (PID). A soil sample was collected for laboratory analysis from each ten foot depth interval where the PID

reading was highest. All soils were also characterized and logged by CDM. Boring logs are included in **Appendix B**.

The soil samples were submitted to Mitkem Corporation, a NYSDOH-certified laboratory, for analysis for volatile organic compounds (VOCs) by EPA Method 8260B and semi-volatile organic compounds (SVOCs) by EPA Method 8270C. In addition, samples collected from MW-5 and MW-6 were submitted for analysis of metals by EPA Method 6010B. A sample summary is provided in **Table 3-1**.

3.1.2.2 Groundwater Profiling

Between December 4, 2008 and January 6, 2009 a groundwater sampler, i.e., hydropunch, was used to collect groundwater samples at 10 foot intervals from the water table (approximately 42 feet below ground surface) to approximately 72 feet below ground surface at the eight new monitoring well locations (MW-5 through MW-12). Before sampling, groundwater was purged from each sample depth and pumped through dedicated tubing to a water quality meter until water quality parameters stabilized or until no more groundwater could be produced from the interval. A summary of the groundwater quality parameters collected during purging of the groundwater profile samples is provided in **Table 3-2**.

The samples were placed in laboratory-provided glassware, in accordance with the QAPP, properly preserved, and shipped. Groundwater profile samples were identified as ROS-MW-5-DEPTH through ROS-MW-12-DEPTH, as indicated on **Table 3-1**. The samples were sent to an off-site ELAP-certified laboratory and analyzed for VOCs by EPA Method 8260B on a 24-hour turn-around- time schedule. After the sample data was received from the lab, the depth interval with the highest concentration of total VOCs was selected for the depth of the monitoring well screen at each location.

3.1.2.3 Monitoring Well Installation

Eight monitoring wells (MW-5 through MW-12) were installed on and near the site by Aztech Technologies using hollow stem auger drilling methods between January 6, 2009 and January 12, 2009. The wells were constructed of two-inch PVC screen and casing for groundwater sampling and monitoring purposes. The depth of each monitoring well was determined from the results of the groundwater profile sampling. The ten-foot screened interval at the bottom of the well was placed in the depth interval with the highest concentration of total VOCs. The well screen was topped with two-inch PVC riser and stopped with a J-plug and flush mounted with a steel road box set in concrete. Well construction diagrams are provided in **Appendix B** and details about well installation are included in **Table 3-3**.

On January 9, 2009 and January 13, 2009 the wells were developed by CDM and Aztech Technologies using a submersible pump. At least three well volumes of groundwater were purged from each well during development.

3.1.2.4 Groundwater Sampling

Groundwater samples were collected from existing monitoring wells MW-1 through MW-4 on November 13, 2008. The wells were sampled using low-flow sampling methods. **Table 3-4** lists the volumes purged from each monitoring well and the water quality parameters recorded at sample collection.

Monitoring wells MW-5 through MW-12 were allowed to stabilize for at least two weeks following development, and were sampled on February 2 and 3, 2009. The wells were sampled using low-flow sampling methods. **Table 3-4** lists the volumes purged from each monitoring well and the water quality parameters recorded during sample collection.

Groundwater samples were submitted to Mitkem Corporation, a NYSDOH-certified laboratory, for analysis for VOCs by EPA Method 8260. Groundwater samples from monitoring wells MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-10 were also analyzed for metals by Method ILM04.2 to assess potential groundwater impacts resulting from former cesspools at 40 Roselle Street. A summary of the groundwater samples collected and the laboratory analyses performed is provided in **Tables 3-1** and **3-6**.

3.1.3 Soil Vapor Investigation

3.1.3.1 Soil Vapor Sample Collection

Two shallow temporary soil vapor sampling points (SV-01 and SV-02) were installed by Aztech Technologies on December 2, 2008 at the locations shown on **Figure 3-1**, in accordance with the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October, 2006. The boreholes were drilled to a depth approximately eight feet bgs using direct push methods.

Soil cores were extracted to a depth of 8 feet bgs at each location. The soil cores were field screened with a PID. No elevated PID readings or visible contamination was observed at either location, and soil samples were collected at a depth of one-foot bgs in accordance with the Work Plan. The sample locations are shown on **Figure 3-1**.

Once the desired depth was reached, 3/8-inch Teflon®-lined tubing was connected to a 6-inch double woven stainless steel sampling screen and placed in each borehole. The boreholes were then backfilled with sand to a depth of seven feet, followed by six feet of bentonite slurry, leaving a one foot void space between the bentonite and the ground surface. The bentonite was allowed to hydrate for 24 hours prior to sample collection.

Tracer gas was used to evaluate short-circuiting of the sampling zone with ambient air. The results of the tracer gas sampling indicated that the points had been sealed properly. The soil vapor sampling locations were evaluated with tracer gas in accordance with the NYSDOH SVI guidance.

Prior to collection of soil vapor samples, the temporary soil vapor probes were purged in accordance with the NYSDOH SVI Guidance. Three implant volumes (i.e. volume

of the sample probe and tube) were purged at a flow rate that did not exceed 200 milliliters (ml) per minute. A tedlar™ bag was filled toward the end of the purge volume and was screened using a photoionization detector (PID) meter. The PID readings were observed and recorded on the appropriate field form. Samples were collected on December 9, 2008 using laboratory-certified clean summa canisters with a vacuum of 28 inches Hg ± 2 inches. A vacuum of 5 inches Hg ± 1 inch must be present when sample collection is terminated. Summa canisters with 2-hour regulators were utilized at locations ROS-SV-01 and ROS-SV-02; however the duplicate sample collected at 50 Roselle Street (ROS-SV-02D) was collected with a 24-hour regulator, as the regulator was improperly labeled by the lab as a 2-hour regulator. Dedicated Teflon®-lined tubing with an inside diameter of ¼ inch was used at each sample location. The flow rate during sampling did not exceed 0.2 liters per minute to minimize outdoor air infiltration during sampling. During soil vapor sample collection on December 9, 2008, an outdoor ambient air sample was also collected using a 24-hour regulator to replicate the run time of the sub-slab samples discussed below.

Just prior to shutting off the canister for sample ROS-SV-02, the sample tubing disconnected from the canister. As such, the results from this canister may have been compromised. As indicated above, a duplicate sample (ROS-SV-02D) was collected at this location.

Air samples were analyzed for VOCs using EPA Method TO-15, with detection limits of 1 $\mu g/m^3$ for each compound except for TCE, vinyl chloride and carbon tetrachloride, which require a 0.25 $\mu g/m^3$ detection limit. After the samples are collected, the sample tubing was removed and the temporary soil vapor points were backfilled with bentonite and covered with asphalt patch. The sample locations were marked in the field so that they could be surveyed at a later date. Details on the collection of soil vapor samples are included in **Table 3-5**.

3.1.3.2 Sub-slab Vapor Sampling

Three temporary sub-slab vapor sampling points (ROS-SSV-1 through ROS-SSV-3) were installed on December 9, 2008 at the locations shown on **Figure 3-1**, in accordance with the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October, 2006. CDM also completed the NYSDOH *Indoor Air Quality Questionnaire and Building Inventory* form for the Site as part of the sub-slab sampling. A copy of this form is provided in **Appendix C**.

The samples were collected on December 10, 2008.The sub-slab soil vapor sample locations were placed away from floor penetrations. After the slab was inspected, the location of any subsurface utilities determined, and the ambient air surrounding the proposed sampling location screened with a PID, a hammer drill was used to advance a boring to a depth of approximately two inches beneath the building slab. A temporary port constructed of Teflon tubing was installed in the opening. The annular space between the borehole and the sample tubing was filled and sealed with anchoring cement. Teflon tubing was connected to the stainless steel sample port and utilized for sample collection. Flow rates for both purging and sample collection did

not exceed 200 milliliters per minute to minimize ambient air infiltration during sampling. Approximately three dead air volumes of gas was purged from the subsurface probe and captured in a Tedlar™ bag using a syringe. PID readings were observed from this sample and the highest reading was recorded on the appropriate field form. A three-way valve was utilized to allow purging of all the lines. The end of the tubing was connected directly to the summa canister's regulator intake valve.

The samples were collected with 6 Liter, laboratory-certified summa canisters with 24-hour regulators and an initial vacuum of 38 inches Hg +/- 2 inches. A vacuum of 5 inches Hg +/- 1 inch must be present when the sample collection is completed. The sub-slab sample was collected concurrently with the ambient air sample.

After the samples are collected, the sample tubing was removed and the temporary sub-slab soil vapor points were patched with concrete. The sample points were marked in the field so that they could be surveyed at a later date. Air samples were analyzed for VOCs using EPA Method TO-15. Details on the collection of soil vapor samples are included in **Table 3-5**.

3.1.3.3 Soil Sampling

Soil samples were collected at each of the soil vapor sampling points (SV-01 and SV-02) and at the location of Floor Drain No. 1 at the south wall of the 40 Roselle Street building (FD). Soil boring samples were screened during installation of the sampling points. A sample was collected and submitted for analysis from the depth interval with the highest PID reading. A soil sample from the Floor Drain was collected approximately 3 feet below the top of the concrete floor.

Soil samples associated with the soil vapor points were labeled ROS-SV-01S-5 and ROS-SV-2S-02-07 to coordinate with the soil vapor sampling locations. The soil sample from the Floor Drain was labeled ROS-FD-S-01. Soil samples associated with the soil vapor sampling points were analyzed for VOCs using EPA method 8260B. The soil sample from the floor drain sample was analyzed for VOCs using EPA method 8260B and metals using EPA method ILM04.1.

Several attempts were made to collect soil samples at the sub-slab soil vapor sample locations. A total of four holes were drilled at location SSV-01 to try to attain a sufficient soil sample. The soil encountered beneath that building slab consisted of crushed stone. The PID reading of soil underneath the slab was 0.2 ppm. The same situation was encountered at SSV-02 or SSV-03, preventing the collection of soil samples at these locations. The PID reading of sub-slab material at SSV-01 was 0.7ppm and 4.5ppm at SSV-03.

3.1.4 Site Restoration

Upon completion of sampling, the soil vapor sample tubing was removed and the temporary soil vapor probe locations were backfilled with bentonite and covered with asphalt patch. Each location was marked with the proper sample identification and illustrated on the site map so that it could be surveyed at a later date. Borings

performed in paved or concrete areas were backfilled and refinished at the ground surface with concrete or cold patch.

3.1.5 Site Survey

A field survey was conducted at the Site on November 26, 2008. During that survey, the site features and the locations and elevations of monitoring wells MW-1 through MW-4 were surveyed. Following completion of the field activities the locations and elevations of monitoring wells MW-5 through MW-8, SV-01, SV-02, SSV-01 through SSV-03, and GP-06 were surveyed on January 27, 2009. The horizontal and vertical positions were tied into the North American Datum 1983 (NAD83) coordinate system. The vertical positions were tied to the North American Vertical Datum 1988 (NAVD88). The measuring points included ground surface and casing elevations and the coordinates of each sampling point. The measuring points associated with the monitoring wells were recorded to an accuracy level of 0.01 feet vertically. The coordinates for each of the sampling points are provided in **Table 3-3**. The well elevations were used to determine the groundwater flow direction on-site, as shown on **Figure 2-1**. The coordinates were used to map the locations on **Figure 3-1**.

3.1.6 Investigation Derived Waste

Soil cuttings from each sampling location were containerized in drums and disposed of off-site. A total of 26 drums containing soil were generated during the investigation. A soil sample was collected from the soil cuttings drums. This sample was analyzed for the full TCLP list and RCRA characteristics. The drums were stored in a designated area at 40 Roselle Street until they could be removed by a waste hauler. A hazardous waste determination letter identifying the waste as non-hazardous was received from NYSDEC on January 30, 2009. A copy of this letter is provided in **Appendix D**. The drums were removed as non-hazardous waste from the site by Earthcare on April 3, 2009. A copy of the non-hazardous waste manifest is provided in **Appendix D**. In accordance with the work plan, well purge and development water was discharged to the ground surface.

3.1.7 Decontamination

All non-dedicated equipment and tools used to collect samples for chemical analysis were decontaminated prior to and between each sample interval using an Alconox rinse and potable water rinse prior to reuse. Decontamination fluids were discharged to the ground surface since a visible sheen or odor was not detected either on the equipment or the fluids.

3.2 Quality Assurance/Quality Control

3.2.1Data Objectives

The objectives of the investigation were:

- Characterize on-site and offsite groundwater.
- Characterize on-site soil.

- Evaluate the potential for vapor intrusion to the onsite structures

3.2.2 Laboratory Analysis and Validation

All samples were analyzed by Mitkem Corporation, a NYSDOH approved ELAP certified laboratory under strict chain-of-custody protocol. **Table 3-6** provides a summary of the analyses performed on each sample matrix. Laboratory reports are provided electronically as a supplement to this document (**Attachment 1**).

All samples were validated by Conestoga-Rovers and Associates, an independent, qualified data validator in accordance with the NYSDEC Data Usability Summary Report (DUSR) guidance, and a usability analysis is attached as **Appendix E**.

3.2.3 Duplicate Samples

Quality assurance/quality control (QA/QC) samples commonly include a duplicate sample to evaluate laboratory repeatability. A total of 11 duplicate samples were collected during the investigation, including three soil samples, five groundwater profile samples, three groundwater samples, and one soil vapor sample. During soil sampling duplicate samples SOIL-DUP1, SOIL-DUP2, and SOIL-DUP3 were collected as duplicates of samples MW-5S-41, MW-7S-6, and MW-7S-42, respectively, and analyzed for VOCs, SVOCs, and metals. During groundwater profile sampling duplicate samples GW-DUP1 through GW-DUP5 were collected as duplicates of MW-5W-73, MW-5W-53, MW-7W-45, MW-9W-45, and MW-12-55, respectively. These groundwater profiling duplicate samples were analyzed for VOCs. During groundwater sampling duplicate samples ROS-MW-33, and ROS-MW-101 were collected for samples ROS-MW-3 and ROS-MW-10, respectively, and analyzed for VOCs and metals. Duplicate sample ROS-MW-08DUP was also collected as a duplicate for ROS-MW-08 and analyzed for metals only. During soil vapor sampling duplicate sample ROS-SV-02D was collected as a duplicate for ROS-SV-02 and analyzed for VOCs. **Table 3-1** lists all duplicate samples collected. The duplicate sample results compared favorably to the sample of origin.

3.2.4 Field and Trip Blanks

Field blanks are collected to evaluate the efficacy of equipment decontamination and general cleanliness of the field procedures, and trip blanks to evaluate whether samples were contaminated by ambient conditions during transit. Field blanks and trip blanks were collected at a rate of one field blank per day and one trip blank per sample shipment.

The field blank for the sample equipment was collected by running the laboratory supplied analyte free water over the sampler tip. The analytical results of the field blank samples are provided in **Tables 4-1, 4-2, and 4-6**. None of the analyzed compounds were detected in the soil sampling field blank ROS-FB-12-2-08-5. Methylene chloride was detected in field blank FB-020309. This is suspected to be a laboratory contaminant. Naphthalene was detected in field blank FB-111308. The wells sampled on November 13, 2008 had significant concentrations of naphthalene detected in them compared to the concentration detected in the field blank. It is not

suspected that the presence of naphthalene in the blank influenced the results of the groundwater samples.

Trip blanks were used to determine if any onsite atmospheric contaminants seeped into the sample vials or if any cross contamination of samples occurred during handling, storage, and/or shipment of samples. Trip blanks were prepared by the analytical laboratory conducting the analysis prior to the sampling event in the actual sample containers and accompanied the sample containers throughout the sampling event: from lab to field, during sample collection, and from field to lab. They were handled and transported in the same manner as the samples collected that day and were then packaged for shipment/delivery with the other samples sent for analysis. At no time after their preparation were the sample containers opened before reaching the laboratory. Trip blanks were prepared for volatile organic analysis of aqueous samples at a frequency of one for each sample shipment. A total of seven trip blanks were analyzed during the investigation. Trip blank results from the investigation are provided in **Tables 4-4 and 4-5**. TCE was detected in trip blank G2352-04A at a concentration of 1.4 µg/L. As a result, the TCE concentrations identified in groundwater profile samples MW-9W-65 and MW-9W-75 were considered estimated.

3.3 Field Documentation

Field notebooks were utilized during all on-site work. A dedicated field notebook was maintained by the field technician overseeing the site activities. In addition to the notebook, all original sampling forms, and purge forms used during the field activities are provided in **Appendix F**. Field and sampling procedures, including installation of the sample boreholes, existing monitoring wells, etc., were photo-documented. Site photographs are provided in **Appendix A**.

C:\40_50_Roselle_Street\GIS\Figure_3-1_Sample_Location_Map.mxd

Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

N

0 20 40

Feet

CDM

Figure 3-1
Sample Location Map
40 & 50 Roselle Street
Mineola, Nassau County, New York

Table 3-1
Sample Summary
40 & 50 Roselle Street
Mineola, New York

Sample I.D.	Sample Location	Sample Address	Sample Depth (feet bgs)	Date	Time	Notes
Soil Sample						
ROS-GP-06-05	GP-06	40 Roselle Street	5	12/1/2008	15:40	
ROS-GP-06-18	GP-06	40 Roselle Street	18	12/1/2008	16:05	
ROS-GP-06-28	GP-06	40 Roselle Street	28	12/1/2008	16:30	
ROS-GP-06-36	GP-06	40 Roselle Street	36	12/1/2008	17:35	
MW-5S-6	MW-5	40 Roselle Street	6	12/5/2008	8:15	
MW-5S-17	MW-5	40 Roselle Street	17	12/5/2008	8:30	
MW-5S-26	MW-5	40 Roselle Street	26	12/5/2008	8:50	
MW-5S-36	MW-5	40 Roselle Street	36	12/5/2008	9:15	
MW-5S-41	MW-5	40 Roselle Street	41	12/5/2008	9:50	
SOIL-DUP1	MW-5	40 Roselle Street	41	12/5/2008	9:50	Duplicate
MW-6S-5	MW-6	40 Roselle Street	5	12/4/2008	8:00	
MW-6S-16	MW-6	40 Roselle Street	16	12/4/2008	8:15	
MW-6S-27	MW-6	40 Roselle Street	27	12/4/2008	14:55	
MW-6S-36	MW-6	40 Roselle Street	32	12/4/2008	15:40	MS/MSD
MW-7S-6	MW-7	50 Roselle Street	6	12/10/2008	9:15	
SOIL-DUP-2	MW-7	50 Roselle Street	6	12/10/2008	9:15	Duplicate
MW-7S-16	MW-7	50 Roselle Street	16	12/10/2008	9:30	MS/MSD
MW-7S-26	MW-7	50 Roselle Street	26	12/10/2008	10:30	
MW-7S-36	MW-7	50 Roselle Street	36	12/10/2008	11:00	
MW-7S-42	MW-7	50 Roselle Street	42	12/10/2008	11:25	
SOIL-DUP-3	MW-7	50 Roselle Street	42	12/10/2008	11:25	Duplicate
ROS-FD-S-01	Floor Drain	40 Roselle Street	3	12/8/2008	11:45	
ROS-SV-01S-5	SV-01	40 Roselle Street	5	12/2/2008	10:50	
ROS-SV-2S-02-07	SV-02	50 Roselle Street	7	12/2/2008	11:45	
ROS-FB-12-2-08-5	FIELD BLANK		FIELD BLANK	12/2/2008	10:30	

Table 3-1
Sample Summary
40 & 50 Roselle Street
Mineola, New York

Sample I.D.	Sample Location	Sample Address	Sample Depth (feet bgs)	Date	Time	Notes
Groundwater Profile Samples						
MW-5W-53	MW-5	40 Roselle Street	53	12/10/2008	10:14	
GW-DUP2	MW-5	40 Roselle Street	53	12/10/2008	10:14	Duplicate
MW-5W-63	MW-5	40 Roselle Street	63	12/10/2008	9:45	
MW-5W-73	MW-5	40 Roselle Street	73	12/8/2008	11:30	
GW-DUP1	MW-5	40 Roselle Street	73	12/8/2008	11:30	Duplicate
MW-6W-45	MW-6	40 Roselle Street	45	12/8/2008	13:55	
MW-6W-55	MW-6	40 Roselle Street	55	12/8/2008	12:45	
MW-6W-65	MW-6	40 Roselle Street	65	12/8/2008	11:55	
MW-6W-75	MW-6	40 Roselle Street	75	12/8/2008	10:55	
MW-7W-45	MW-7	50 Roselle Street	45	12/12/2008	16:35	
GW-DUP3	MW-7	50 Roselle Street	45	12/12/2008	16:35	Duplicate
MW-7W-55	MW-7	50 Roselle Street	55	12/12/2008	16:10	MS/MSD
MW-7W-65	MW-7	50 Roselle Street	65	12/12/2008	14:55	
MW-7W-75	MW-7	50 Roselle Street	75	12/12/2008	14:20	
MW-8-45	MW-8	Nassau County Recharge basin no. 379	45	12/10/2008	16:47	
MW-8-52	MW-8	Nassau County Recharge basin no. 379	52	12/10/2008	15:57	
MW-8-62	MW-8	Nassau County Recharge basin no. 379	62	12/10/2008	15:15	
MW-8-72	MW-8	Nassau County Recharge basin no. 379	72	12/10/2008	14:15	
MW-9W-45	MW-9	51 Charles Street	45	12/16/2008	14:00	
MW-9W-55	MW-9	51 Charles Street	55	12/16/2008	13:30	
GW-DUP4	MW-9	51 Charles Street	55	12/16/2008	13:30	Duplicate
MW-9W-65	MW-9	51 Charles Street	65	12/16/2008	12:45	
MW-9W-75	MW-9	51 Charles Street	75	12/16/2008	11:20	
MW-10-55	MW-10	35 Roselle St.	55	1/7/2009	16:15	
MW-10-65	MW-10	35 Roselle St.	65	1/5/2009	15:40	
MW-10-75	MW-10	35 Roselle St.	75	1/7/2009	15:10	
MW-11-45	MW-11	45 Roselle St.	45	1/8/2009	10:00	
MW-11-55	MW-11	45 Roselle St.	55	1/7/2009	9:45	
MW-11-65	MW-11	45 Roselle St.	65	1/7/2009	9:25	
MW-11-75	MW-11	45 Roselle St.	75	1/7/2009	8:50	
MW-12-45	MW-12	47 Roselle St.	45	1/7/2009	14:00	
GW-DUP5	MW-12	47 Roselle St.	45	1/7/2009	14:00	Duplicate
MW-12-55	MW-12	47 Roselle St.	55	1/7/2009	13:00	
MW-12-65	MW-12	47 Roselle St.	65	1/7/2009	12:15	
MW-12-75	MW-12	47 Roselle St.	75	1/7/2009	11:30	

Table 3-1
Sample Summary
40 & 50 Roselle Street
Mineola, New York

Sample I.D.	Sample Location	Sample Address	Sample Depth (feet bgs)	Date	Time	Notes
Groundwater Samples						
ROS-MW-1	MW-1	40 Roselle Street	42.3	11/13/2008	12:17	
ROS-MW-2	MW-2	40 Roselle Street	42.6	11/13/2008	10:17	
ROS-MW-3	MW-3	40 Roselle Street	42.29	11/13/2008	8:50	
ROS-MW-33	MW-3	40 Roselle Street	42.29	11/13/2008	8:50	Duplicate
ROS-MW-4	MW-4	40 Roselle Street	42.31	11/13/2008	15:02	
ROS-MW-05	MW-05	40 Roselle Street	40.97	2/2/2009	16:05	
ROS-MW-06	MW-06	40 Roselle Street	42.1	2/2/2009	17:40	
ROS-MW-07	MW-07	50 Roselle Street	42.35	2/3/2009	16:30	
ROS-MW-08	MW-08	Nassau County Recharge basin no. 379	41.93	2/3/2009	14:35	
ROS-MW-08DUP	MW-08	Nassau County Recharge basin no. 379	41.93	2/3/2009	14:35	Duplicate on Metals analysis only
ROS-MW-09	MW-09	51 Charles Street	36.6	2/3/2009	12:20	
ROS-MW-10	MW-10	35 Roselle St.	40.32	2/2/2009	13:50	
ROS-MW-101	MW-10	35 Roselle St.	40.32	2/2/2009	13:50	Duplicate
ROS-MW-11	MW-11	457 Roselle St.	41.8	2/3/2009	8:45	
ROS-MW-12	MW-12	47 Roselle St.	42	2/3/2009	10:15	
Soil Vapor/Air Samples						
ROS-SV-01	SV-01	40 Roselle Street	8	2/9/2009	11:10	
ROS-SV-02*	SV-02	50 Roselle Street	8	2/9/2009	11:20	Tubing disconnected just prior to sample termination. Results may be compromised
ROS-SV-02D	SV-02	50 Roselle Street	8	2/9/2009	8:20	Duplicate
ROS-SSV-01	SSV-01	40 Roselle Street	0.5	2/9/2009	8:40	
ROS-SSV-02	SSV-02	40 Roselle Street	0.5	2/9/2009	8:57	
ROS-SSV-03	SSV-03	50 Roselle Street	0.5	2/9/2009	8:20	
ROS-OA-1	Outdoor Ambient	40 Roselle Street	NA	2/9/2009	9:07	

Table 3-2
Water Quality Parameters During Purging for Groundwater Profiling
40 & 50 Roselle Street
Mineola, New York

MW-5 DTW (ft below TOC) 41 Date 12/5/2008

73 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	10:35	12.43	0.072	7.5	11.3
1.0	10:41	12.2	0.065	7.3	16.1
2.0	10:47	12.2	0.061	7.1	31.9
3.0	10:54	12.14	0.053	6.93	44.7
4.0	11:01	12.5	0.052	6.83	43.5
4.5	11:05	12.22	0.052	6.8	76.6
5.0	11:09	12.21	0.052	6.71	52.5

63 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
1.0	8:57	12.71	0.041	7.1	70.9
1.5	9:04	11.85	0.041	6.9	65
1.8	9:14	13.48	0.042	6.85	67.9
2.0	9:23	13.46	0.042	6.73	70.6
2.5	9:26	12.85	0.04	6.75	64.7
2.8	9:31	12.67	0.04	6.67	69.2
3.0	9:34	12.63	0.04	6.66	74.5
4.5	9:41	12.47	0.04	6.63	81.9
5.0	9:45	12.51	0.04	6.61	81.7

53 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	**10:13**	**13.32**	**0.049**	**6.17**	**63**

Note: 53 foot depth went dry after purging about 0.5 gallons

Total Purged: 10.5

Table 3-2
Water Quality Parameters During Purging for Groundwater Profiling
40 & 50 Roselle Street
Mineola, New York

MW-6 DTW (ft below TOC) 42.12 Date 12/4/2008

75 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	11:08	13.82	0.11	7.47	59
1	10:25	14.3	0.058	6.59	73.9
1.5	10:31	15.22	0.053	6.7	58.2
2	10:37	14.63	0.047	6.55	64.5
2.5	10:43	14.75	0.049	6.5	64
3	10:48	14.42	0.049	6.53	54.8
4	10:55	14.64	0.049	6.4	63.4

65 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
1.0	11:18	15.8	0.035	6.34	54.9
1.5	11:23	15.6	0.032	6.29	56.9
2.0	11:29	15.37	0.032	6.22	55.2
2.5	11:33	15.5	0.032	6.22	46.7
3.0	11:37	15.46	0.031	6.2	58.3
3.5	11:42	15.25	0.031	6.2	55.9
4.0	11:46	15.43	0.031	6.19	67.7

55 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
1	**12:13**	**16.55**	**0.033**	**6.2**	**84**
1.5	**12:17**	**15.75**	**0.031**	**6.1**	**75.1**
2	**12:23**	16.09	**0.031**	**6.05**	**710**
2.5	12:30	16.13	0.032	6.1	65.5
3.0	12:35	16.02	0.037	6.05	64.2
3.5	12:40	15.82	0.035	6	**65**

45 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
1.0	13:13	16.37	0.095	5.3	**62.4**
2.0	13:30	16.37	0.089	5	**70**
2.5	13:35	16.38	0.088	4.92	**85.8**
3.0	13:40	16.36	0.088	4.84	**67.3**
4.0	13:42	16.27	0.087	4.79	**58.7**
4.5	13:48	16.27	0.087	4.7	**75.5**
5.0	13:52	16.23	0.087	4.7	**74**

Total Purged: 16.5

Table 3-2
Water Quality Parameters During Purging for Groundwater Profiling
40 & 50 Roselle Street
Mineola, New York

MW-7 DTW (ft below TOC) 42.28 Date 12/10/2008

75 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	12:32	14.86	0.167	7.03	22.2
0.75	13:00	15.14	0.157	6.83	49.8

65 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %

Note: Could not purge enough water from 65 foot depth to fill water quality meter

55 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.25	15:48	15.52	0.283	5.88	23.6
0.3	15:54	15.27	0.292	5.96	16
0.4	16:05	15.06	0.296	6.02	6.4

45 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.25	16:21	15.94	0.31	6.16	35
1	16:25	15.58	0.292	5.93	61.4
2	16:29	15.47	0.298	5.9	67.4
2.5	16:32	15.59	0.308	5.89	65.3

Total Purged **3.65**

Table 3-2
Water Quality Parameters During Purging for Groundwater Profiling
40 & 50 Roselle Street
Mineola, New York

MW-8 DTW (ft below TOC) 42.13 Date 12/8/2008

72 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	13:39	14.03	0.045	6.88	78.7
1.5	13:45	13.82	0.036	6.65	86.7
2	13:50	13.82	0.034	6.53	85.7
2.5	13:56	13.73	0.033	6.46	95.4
3	14:00	13.68	0.032	6.44	96.3
4	14:04	13.52	0.32	6.39	94
4.5	14:09	13.97	0.32	6.35	89.6
5	14:15	13.7	0.32	6.3	89.8

62 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	14:32	14.32	0.036	6.34	65.6
1	14:37	14.5	0.034	6.29	71.6
1.5	14:43	13.69	0.034	6.23	65.6
2	14:48	13.69	0.035	6.26	78.2
2.5	14:55	14.7	0.032	6.2	77
3	14:58	14.8	0.032	6.16	79.9
4	15:03	14.71	0.032	6.16	86.8
5	15:11	14.7	0.032	6.14	83.9

52 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	15:34	13.74	0.036	6.3	68
1	15:38	13.08	0.034	6.25	68.1
2	15:46	14.49	0.033	6.12	92.3
2.5	15:54	14.63	0.033	6.1	93.7
4	16:02	14.52	0.032	6.06	92.5

45 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.5	16:24	12.03	0.044	6.68	41.2
1	16:30	14.54	0.04	6.55	60.6
1.5	16:39	12.51	0.035	6.38	65.1

Total Purged **15.5**

Table 3-2
Water Quality Parameters During Purging for Groundwater Profiling
40 & 50 Roselle Street
Mineola, New York

MW-9 DTW (ft below TOC) 42.28 Date 12/10/2008

75 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.25	10:55	14.84	0.107	7.75	9.5
0.5	11:20	14.9	0.139	7.6	8.7

Note: Went dry after purging about 0.5 gallons, allowed to recharge and sampled

65 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %

Note: Could not purge enough water to fill water quality meter

55 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.1	13:18	16.85	0.085	7.15	53.4
0.2	13:30	16.5	0.083	6.85	35

Note: Went dry after purging about 0.2 gallons, allowed to recharge and sampled

45 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	pH	DO %
0.1	11:47	17.17	0.052	6.62	32.5
0.2	14:10	17.87	0.066	6.57	32

Note: Went dry after purging about 0.2 gallons, allowed to recharge and sampled

Total Purged **0.9**

MW-10 DTW (ft below TOC) 40.32 Date 1/5/2009

75 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
< 1	15:00	12.61	0.071	135	8.14	6.5
0.5	15:07	14.45	0.051	2066	7.84	40.8
1	15:20	13.3	0.048	2043	7.65	54.9
2.5	15:32	11.8	0.047	2018	7.18	34.2

Note: Went dry after purging about 2.5 gallon, allowed to recharge and sampled

65 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %

Note: Could not purge enough water to fill water quality meter

55 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
< 1	16:15	7.95	0.043	1250	6.6	64

Note: Went dry after purging < 1 gallon, allowed to recharge and sampled

45 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %

Note: Could not purge enough water to fill water quality meter

Total Purged **approx. 3 gal**

Table 3-2
Water Quality Parameters During Purging for Groundwater Profiling
40 & 50 Roselle Street
Mineola, New York

MW-11 DTW (ft below TOC) 41.8 Date 1/6/2009

75 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
0.1	8:40	11.9	0.107	320	8.3	12.3
1	8:44	13.27	0.101	2046	7.87	60.3
1.1	8:50	12.78	0.098	1200	7.51	61.8

Note: Went dry after purging about 1 gallon, allowed to recharge and sampled

65 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
0.1	9:05	11.34	0.102	2025	7.35	54
1	9:08	14.09	0.108	1005	7.15	64
1.5	9:15	14.22	0.106	578	6.99	73.8

Note: Went dry after purging about 1.5 gallon, allowed to recharge and sampled

55 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
1	9:25	13.91	0.089	2058	6.99	48
2	9:45	14.1	0.056	709	7.02	12.3

Note: Went dry after purging about 2 gallons, allowed to recharge and sampled

45 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %

Note: Could not purge enough water to fill water quality meter

Total Purged **4.6**

MW-12 DTW (ft below TOC) 41.93 Date 1/5/2009

75 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
< 1	11:25	10.16	0.245	31	8.53	16.5
< 1	11:30	10.27	0.25	53	8.55	20.4

Note: Went dry after purging < 1 gallon, allowed to recharge and sampled

65 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
< 1	12:15	9.77	0.23	1200	8.1	35
< 1	12:20	10.26	0.223	560	7.96	32.2

Note: Went dry after purging < 1 gallon, allowed to recharge and sampled

55 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
< 1	11:50	8.86	0.124	1968	7.33	43.1
< 1	11:58	9.01	0.111	1970	7.06	46.2

Note: Went dry after purging < 1 gallon, allowed to recharge and sampled

45 ft Depth

Volume Purged (gal)	Time	ºC	EC (mS/cm)	NTU	pH	DO %
< 1	13:45	8.76	0.004	1887	6.63	72

Note: Went dry after purging < 1 gallon, allowed to recharge and sampled

Total Purged **approx. 2 gal**

Table 3-3
Well Construction and Survey Summary
40 & 50 Roselle Street
Mineola, New York

Well	Address	Depth (ft bgs)	Diameter (inches)	Screen Length (ft)	Screened Interval (ft bgs)	Northing	Easting	Top Casing Elevation	Top PVC Elevation	Ground Elevation	Date Installed	Date Developed	DTW 2/2/09 (ft bgs)*	GW Elev 2/2/09*
MW-1	40 Roselle St.	52.91	2			214184.21	1085047.03	106.07	105.69				41.73	63.96
MW-2	40 Roselle St.	55.81	2			214154.32	1085057.22	106.17	105.88				41.95	63.93
MW-3	40 Roselle St.	54.89	2			214109.82	1085068.08	105.81	105.53				41.67	63.86
MW-4	40 Roselle St.	55.69	2			214103.76	1085023.04	105.79	105.55				41.61	63.94
MW-5	40 Roselle St.	72	2	10	62 - 72	214116.04	1084849.93	105.14	104.77		1/6/2009	1/9/2009	41	63.77
MW-6	40 Roselle St.	47	2	10	37 - 47	214143.53	1085025.83	106.11	106.03		1/8/2009	1/9/2009	42.12	63.91
MW-7	50 Roselle St.	68	2	10	58 - 68	214165.33	1085214.98	106.47	106.30		1/8/2009	1/9/2009	42.28	64.02
MW-8	Nassau County recharge basin no. 379	48	2	10	38 - 48	214238.36	1085089.31	106.49	106.13		1/6/2009	1/9/2009	42.13	64
MW-9	51 Charles St.	71	2	10	61 - 71	214369.34	1085164.64	100.91	100.70		1/7/2009	1/9/2009	36.56	64.14
MW-10	35 Roselle St.	72	2	10	62 - 72	214041.97	1084873.35	104.64	104.08		1/12/2009	1/13/2009	40.32	63.76
MW-11	45 Roselle St.	50	2	10	40 - 50	214048.37	1085006.86	105.85	105.64		1/8/2009	1/9/2009	41.80	63.84
MW-12	47 Roselle St.	50	2	10	40 - 50	214060.86	1085121.48	106.11	105.87		1/9/2009	1/13/2009	41.93	63.94
SV-1	40 Roselle St.	8				214104.53	1085045.11			105.95				
SV-2	50 Roselle St.	8				214189.05	1085232.34			106.14				
SSV-1	40 Roselle St.	0.5				214185.65	1084926.84			105.8				
SSV-2	40 Roselle St.	0.5				214182.92	1084979.94			106.4				
SSV-3	50 Roselle St.	0.5				214162.49	1085139.17			106.1				
GP-6	40 Roselle St.	40				214142.72	1085045.29			106.04	12/1/2008			

Notes:
All elevations are in feet above mean sea level
ft bgs - feet below ground surface
DTW - Depth to water
*Synoptic round of groundwater measurements taken on 2/2/09

Table 3-4
Water Quality Parameters at Groundwater Sample Collection
40 & 50 Roselle Street
Mineola, New York

Well I.D.	Date Sampled	PID (PPM)	DTW	Time at Start of Purge	Time Completed Purge	Flow Rate (mL/min)	Volume Purged (gal)	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Turbidity (ntu)
MW-1	11/13/2009	0.7	42.25	10:50	12:10	200	5	4.14	0	8.3	18.67	223	419
MW-2*	11/13/2009	45.4	42.6	9:30	10:15	200	2	4.00	0	8.97	15.83	217	348
MW-3	11/13/2009	3.3	42.3	7:27	8:50	250	7.5	4.03	0	8.23	18.71	227	442
MW-4	11/13/2009	17	42.32	13:35	15:00	150	3.5	4.39	0	7.8	17.2	211	413
MW-5	2/2/2009	0.4	40.97	14:28	16:00	350	8.5	6.59	0.062	4.88	16.55	100	188
MW-6	2/2/2009	0.1	42.12	17:15	17:40	150	1.75	4.87	0.045	8.08	19.25	230	40.4
MW-7	2/3/2009	0.3	42.28	15:40	16:20	400	4	6.16	0.292	6.52	15.14	163	7.68
MW-8	2/3/2009	0.3	42.13	13:55	14:33	450	4.5	6.42	0.05	7.83	18.75	140	17.3
MW-9	2/3/2009	1	36.56	11:25	12:18	450	6	5.96	0.05	3.76	17.54	131	35.1
MW-10	2/2/2009	0.8	40.32	12:40	13:45	350	6	6.09	0.046	5.17	15.26	113	23
MW-11	2/3/2009	0.3	41.80	7:50	8:43	450	6.7	5.86	0.189	0	18.15	-11	40.9
MW-12	2/3/2009	0.9	41.93	8:15	10:11	200	6	5.34	0.535	3	16.35	213	37.6

Notes:
- Wells sampled using low flow method
* Viscous NAPL was observed at the bottom of monitoring MW-2 on 2/2/09
PPM - parts per million
DTW - depth to water

Table 3-5
Soil Vapor Sample Summary
40 & 50 Roselle Street
Mineola New York

Subsurface Soil Vapor Sampling										
Location	Sample ID	Depth of Sample (Ft bgs)	PID Reading (PPM)	Date	Start Time	Initial Pressure (in. Hg)	Time Collected	Final Pressure (in. Hg)	Helium Tracer Test Reading	Can # / Reg #
SV-01	ROS-SV-01	8.0	7.7	12/9/2008	9:10:00	-30.0	11:10:00	-2.5	Passed	5588/00390
SV-02	ROS-SV-02	8.0	0.0	12/9/2008	9:38:00	-30.0	11:20:00	-4.0	Passed	7649/00198
SV-02*[a]	ROS-SV-02D	8.0	0.0	12/9/2008	9:38:00	-30.0	8:20:00	-1.0	Passed	0222/02882

Sub-slab Vapor, Indoor, and Outdoor Ambient Air Sampling										
Location	Sample ID	PID Reading (PPM)	Start Time	Start Date	Initial Pressure (in. Hg)	Time Collected	Collection Date	Final Pressure (in. Hg)	Helium Tracer Test Reading	Can # / Reg #
SSV-01	ROS-SSV-01	0	8:02:00	12/9/2008	-30.0	8:40:00	12/10/2008	0.0	N/A	1646/02875
SSV-02	ROS-SSV-02	0	9:57:00	12/9/2008	-30.0	8:57:00	12/10/2008	-1.5	N/A	0702/02974
SSV-03	ROS-SSV-03	8.4	8:28:00	12/9/2008	-30.0	8:20:00	12/10/2008	0.0	N/A	5580/02960
OA-1	ROS-OA-1	0	8:36:00	12/9/2008	-30.0	9:07:00	12/10/2008	-5.0	N/A	4629/00393

Legend
NA= Not Applicable
BGS= Below Ground Surface
OA= Outdoor Air
* - Duplicate Sample
SV= Soil Vapor
SSV= Sub-slab Soil Vapor
a - 24- hour regulator was used for this canister
-Sample SV-02 the tubing disconnected from the regulator right before the sample period completed. Results may have been compromised.

Table 3-6
Analytical Methods
40 & 50 Roselle Street
Mineola, New York

Analytical Parameter	Sample Matrix	Analytical Method
GROUNDWATER PROFILE SAMPLES		
Volatile Organic Compounds (VOCs)	Groundwater	EPA Method 8260B
GROUNDWATER SAMPLES		
Volatile Organic Compounds (VOCs)	Groundwater	EPA Method 8260B
Metals (MW-3, MW-4, MW-5, MW-6, MW-8, and MW-10 only)	Groundwater	EPA ILM04.2
SOIL SAMPLES		
Volatile Organic Compounds (VOCs)	Soil	EPA 8260B
Semi-Volatile Organic Compounds (VOCs)	Soil	EPA 8270C
Metals	Soil	EPA 6010B
SOIL VAPOR SAMPLES		
Volatile Organic Compounds (VOCs)	Air	EPA TO-15

Section 4
Analytical Results

This section presents the analytical results for the sub-surface soil sampling, groundwater profile sampling, monitoring well groundwater sampling and soil vapor sampling conducted as part of the site characterization investigation. The soil analytical results were compared to the Part 375 Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives. The soil sample analytical results are presented in **Table 4-1, 4-2 and 4-3**. The monitoring well and profiling groundwater analytical results were compared to New York State Standards and Guidance Values for Class GA Groundwater (NYSDEC TOGS 1.1.1). The groundwater profile sample results are presented in **Table 4-4**. The monitoring well sample results are presented in **Tables 4-5** and **4-6**. The soil vapor and ambient air sample results were compared to NYSDOH Soil Vapor/Indoor Air Matrix 1 and Matrix 2 guidance where applicable and are provided in **Table 4-7**.

4.1 Summary of Soil Sampling Results

Four soil samples were collected from soil boring GP-06 on December 1, 2008 at depths of 5, 18, 28, and 36 feet bgs. No VOCs or SVOCs were detected above the RSCO in any of these four samples. Sample locations are shown on **Figure 3-1** and soil sample analytical results are presented on **Figures 4-1, 4-2 and 4-3** and in **Tables 4-1**, **4-2**, and **4-3**.

Five soil samples were collected during drilling of MW-5 on December 5, 2008 at depths of 8, 17, 26, and 41 feet bgs. No VOCs were detected in any of these samples. Estimated concentrations of phenol were reported in all five samples. All of these phenol concentrations exceeded the NYSDEC RSCO of 0.03 mg/kg and ranged from 0.083 mg/kg in the 17 foot sample to 0.12 mg/kg in the 36 foot sample. Estimated concentrations of iron were detected in all five samples. All of these iron concentrations exceeded the NYSDEC RSCO of 2000 mg/kg and ranged from 3,190 mg/kg in the 41 foot sample to 21,000 mg/kg in the six foot sample. In the six foot sample, concentrations of beryllium, chromium, and zinc also exceeded the NYSDEC RSCOs, with concentrations of 0.3, 30.6, and 21.9 mg/kg, respectively. In the 17 foot sample, concentrations of chromium, copper, and zinc also exceeded NYSDEC RSCOs, with concentrations of 14.7, 37.7, and 20.5 mg/kg, respectively.

Four soil samples were collected during drilling of monitoring well MW-6 on December 4, 2008 at depths of 5, 16, 27, and 32 feet bgs. No VOCs were detected in the 27 and 32 foot samples. There were a few detections of VOCs in the five and 16 foot samples, but no exceedances of the NYSDEC RSCOs. Estimated concentrations of phenol were reported in all four samples. All of these phenol concentrations exceeded the NYSDEC RSCO of 0.03 mg/kg and ranged from 0.089 mg/kg in the 16 foot sample to 0.14 mg/kg in the 32 foot sample. Estimated concentrations of iron were detected in all four samples at concentrations exceeding the NYSDEC RSCO ranging from 6,220 mg/kg in the 32 foot sample to 7,260 mg/kg in the five foot sample. In the 16 foot sample, concentrations of chromium and zinc also exceeded the NYSDEC

RSCOs at concentrations of 10.3 and 25.7 mg/kg, respectively. In the 27 foot sample, a concentration of 22.6 mg/kg of zinc exceeded the NYSDEC RSCO. In the 32 foot sample, a concentration of 24 mg/kg of chromium exceeded the NYSDEC RSCO.

Five soil samples were collected during the drilling of monitoring well MW-7 on December 10, 2008 at depths of 6, 16, 26, 36, and 42 feet bgs. No VOCs were detected in any of these samples.

One soil sample was taken during drilling of each of soil vapor points SV-1 and SV-2 on December 2, 2008. No VOCs were detected in either of these samples.

A soil/sludge sample was taken from the floor drain inside the 40 Roselle St. building on December 8, 2008. An estimated concentration of toluene of 0.0037 mg/kg was detected in this sample. Concentrations of copper, iron, and zinc were detected in this sample at concentrations exceeding the NYSDEC RSCO of 355, 6,580, and 68 mg/kg, respectively.

4.3 Summary of Groundwater Sampling Results

4.3.1 Summary of Groundwater Profiling Sample Results

Between December 4, 2008 and January 6, 2009 a groundwater sampler, i.e., hydropunch, was driven and groundwater samples collected at 10 foot intervals from the water table (approximately 42 feet below ground surface) to approximately 72 feet bgs at the eight new monitoring well locations (MW-5 through MW-12). A total of 30 samples plus five duplicate samples were collected during this process.

Concentrations of PCE and TCE exceeded the standard value of 5 µg/L in samples collected at MW-6, MW-11, and MW-12. Specifically, concentrations of PCE that exceeded the standard value of 5 µg/L were detected in samples MW-6W-45, MW-6W-75, MW-11-45, and MW-12-45 at concentrations ranging from 7.1 µg/L in sample MW-11-45 to 250 µg/L in sample MW-6W-45. Concentrations of TCE that exceeded the standard value of 5 µg/L were detected in samples MW-6W-45, MW-6W-75, MW-11-45DL, MW-11-55, MW-12-45, and MW-12-55 at concentrations ranging from 6.1 µg/L in sample MW-12-55 to 490 µg/L in sample MW-6W-45. Other VOCs were detected in these samples, but not at concentrations that exceeded their respective guidance values.

4.3.2 Summary of Monitoring Well Groundwater Sample Results

A total of four groundwater samples plus one duplicate were collected from existing monitoring wells MW-1 through MW-4 on November 13, 2008. Additionally, eight groundwater samples plus one duplicate were collected from newly installed monitoring wells MW-5 through MW-12 on February 2 and 3, 2009. The duplicate samples were collected at MW-3 and MW-10 and were labeled MW-33 and MW-101, respectively. A duplicate sample was also collected at MW-8 (ROS-MW-08DUP) which was analyzed for metals only. A trip blank was also included with the sample cooler. The analytical results for the trip blank sample showed no detections. Analytical results for the groundwater investigation are presented in **Tables 4-5 and**

4-6 and on **Figures 4-5 and 4-6**. The following volatile organic compounds were detected at concentrations exceeding the New York State Standards and Guidance Values for Class GA Groundwater:

- 1,1,1-Trichlorethane in samples from on-site monitoring wells MW-2 and MW-3 at 7.8 µg/L and 41 µg/L, respectively.
- 1,1,2-Trichloroethane in on-site well MW-3 at a concentration of 2.3 µg/L.
- 1,2,4-Trimethylbenzene in samples from on-site monitoring wells MW-2 (29 µg/L), MW-3 (48 µg/L), and MW-4 (18 µg/L) and off-site downgradient well MW-11 (an estimated concentration of 16 µg/L).
- 1,3,5-Trimethylbenzene in samples from monitoring on-site wells MW-2 (13 µg/L) and MW-3 (7.9 µg/L).
- Cis-1,2-dichloroethene in samples from on-site monitoring well MW-4 (17 µg/L) and offsite downgradient well MW-11 (890 µg/L).
- N-butylbenzene in samples from monitoring on-site wells MW-2 (130 µg/L), MW-3 (100 µg/L), and MW-4 (92 µg/L), and off-site downgradient monitoring well MW-11 (84 µg/L).
- N-propylbenzene in the sample from on-site monitoring well MW-2 at a concentration of 8.5 µg/L.
- Naphthalene in samples from on-site monitoring wells MW-2 (3,200 µg/L), MW-3 (1,200 µg/L), and MW-4 (1,000 µg/L), and offsite downgradient well MW-11 (2,100 µg/L). Naphthalene was also detected at upgradient well MW-9 (estimated concentration of 1.2 µg/L).
- O-xylene in samples from on-site monitoring wells MW-2 and MW-3 at concentrations of 5.2 µg/L and 11 µg/L, respectively.
- Sec-butylbenzene in samples from on-site monitoring wells MW-2 (42 µg/L), MW-3 (78 µg/L), and MW-4 (66 µg/L) and off-site downgradient monitoring well MW-11 at an estimated concentration of 17 µg/L.
- Tetrachloroethene in samples from monitoring wells MW-2 (21 µg/L), MW-3 (13 µg/L), MW-4 (8.1 µg/L) and MW-6 (17 µg/L) and offsite monitoring wells MW-11 (49 µg/L) and MW-12 (28 µg/L).
- Trichloroethene in samples from on-site monitoring wells MW-2 (1,000 µg/L), WM-3 (430 µg/L), MW-4 (190 µg/L), and MW-6 (36 µg/L) and offsite monitoring wells MW-11 (360 µg/L), and MW-12 (110 µg/L).
- Total xylene was detected in samples collected from monitoring wells MW-2 and MW-3 at concentrations of 9.9 µg/L and 15 µg/L, respectively.

Monitoring wells MW-3, MW-4, MW-5, MW-6, MW-8, and MW-10 were also sampled for metals by Method ILM04.2. Iron was detected at concentrations that exceeded the New York State Standards and Guidance Values for Class GA Groundwater of 300 µg/L in monitoring wells MW-3, MW-4, MW-5, and MW-6 at concentrations ranging from 2,050 µg/L in MW-5 to 24,200 µg/L in MW-3. Manganese was detected at concentrations exceeding the New York State Standards and Guidance Values for Class GA Groundwater of 300 µg/L in monitoring well MW-3 at 348 µg/L. Thallium was detected at a concentration of 5.6 µg/L in monitoring well MW-8, which exceeds the New York State Standards and Guidance Values for Class GA Groundwater of 0.5 µg/L, however, this compound was detected in the laboratory blank.

4.4 Summary of Soil Vapor and Ambient Air Sampling Results

Six soil vapor samples were collected from six locations to determine if VOC contamination in groundwater in the subject area has resulted in the presence of soil vapor that may impact the quality of air inside the buildings at 40 and 50 Roselle Street. Two vapor boreholes were located in the parking lots at 40 and 50 Roselle Street where vapor samples were collected at approximately 8 feet below site grade. Two soil vapor samples (ROS-SV-01 and ROS-SV-02) and a duplicate soil vapor sample (ROS-SV-02D) were collected at the two locations shown on **Figure 3-1**. The data from sample ROS-SV-02 is considered compromised as the tubing disconnecting from the canister just before sample completion, as such the results from sample ROS-SV-02D should be utilized for this location. An ambient air sample (ROS-OA-1) was also collected in the parking lot between 40 and 50 Roselle St. in accordance with the approved Work Plan. Three sub-slab soil vapor samples were collected at the Site, two from inside 40 Roselle Street (SSV-01 and SSV-02) and one from inside 50 Roselle Street (SSV-03). The gages on the air canisters at sub-slab soil vapor sampling locations SSV-01, SSV-02 and SSV-03 read 0, -1.5, and 0, respectively, at sample termination, indicating that the flow rates were not calibrated correctly.

Analytical results for the soil vapor investigation are presented in **Table 4-7** and **Figure 4-7**. The 2006 NYSDOH Vapor Intrusion guidance indicates that the State of New York does not have any standards, criteria, or guidance values for subsurface vapors. VOCs were detected in the soil vapor samples collected at the Site, including the ambient air sample. The results for TCE and PCE concentrations were compared to Matrix 1 and Matrix 2 of the NYSDOH soil vapor guidance. The EPA 2001 *Building Assessment and Survey Evaluation (BASE) Database*, SUMMA canister method table provides background concentrations of VOCs expected in typical indoor and outdoor locations. This table is provided in Appendix C of the NYSDOH soil vapor guidance.

There are currently no standards, criteria or guidance values for sub-slab or general soil vapor samples. Therefore comparisons made to the NYSDOH Vapor Intrusion guidance and EPA 2001 BASE Database serve as guidelines and are for reference purposes only.

Although VOCs were detected in the ambient air sample (ROS-OA-1), the concentrations were lower than the EPA 2001 BASE Database for outdoor air 90th percentile concentrations.

The samples from locations SSV-02 and SSV-03 had concentrations of TCE that were higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 4.2 µg/m3 and also exceeded the NYSDOH Matrix 1 concentration of 250 µg/m3, which indicates mitigation is required. Samples from locations SSV-02 and SSV-03 had concentrations of PCE of 612 µg/m3 and 18716.07 µg/m3, respectively, which is higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 15.9 µg/m3. The TCE concentration at SSV-03 also exceeds the NYSDOH Matrix 2 concentration of 1,000 µg/m3 which indicates that mitigation is required.

When compared to the EPA 2001 BASE table for indoor air, the sub-slab soil vapor samples measured above the 90th percentile concentrations for acetone in locations SSV-01 and SSV-02 at 169.67 and 439.61 µg/m3, respectively, compared to 98.9 µg/m3 for the BASE Database. Samples from locations SSV-01 and SSV-02 also had concentrations of carbon disulfide of 6.75 µg/m3 and 5.32 µg/m3 that were higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 4.2 µg/m3. The sample from location SSV-02 had a chloroform concentration of 5.35 µg/m3, which is higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 1.1 µg/m3. The sample from location SSV-03 had a 1,1,1-Trichloroethane concentration of 488.86 µg/m3, which was higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 20.6 µg/m3.

Samples from locations SSV-01 and SSV-02 had concentrations of ethylbenzene that were higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 5.7 µg/m3. Samples from locations SSV-01 and SSV-2 had concentrations of m,p-xylene that were higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 22.2 µg/m3. The sample from location SSV-02 had a concentration of o-xylene of 27.44 µg/m3 that was higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 7.9 µg/m3. The sample from location SSV-01 had a concentration of 1,2,4-Trimethylbenzene of 11.45 that was higher than the EPA 2001 BASE Database for indoor air 90th percentile concentration of 9.5 µg/m3.

The sample from location SV-01 had a concentration of 106.46 µg/m3 of acetone that was higher than the EPA 2001 BASE Database for outdoor air 90th percentile concentration of 43.7 µg/m3. The duplicate sample from SV-02 had a concentration of 0.63 µg/m3 of 1,1-Dichloroethene that was higher than the EPA 2001 BASE Database for outdoor air 90th percentile concentration of < 1.4 µg/m3. The duplicate sample from SV-02 had a concentration of 1,1-Dichloroethane of 1.9 µg/m3 that was higher than the EPA 2001 BASE Database for outdoor air 90th percentile concentration of < 0.6 µg/m3. The duplicate sample from SV-02 had a concentration of 1,1,1-Trichloroethane of 41.68 µg/m3 that was higher than the EPA 2001 BASE Database for outdoor air 90th percentile concentration of < 1.6 µg/m3. The sample from SV-01 and the duplicate sample from SV-02 had concentrations of TCE of 11,715.83 µg/m3 and

8.76 µg/m^3, respectively, that were higher than the EPA 2001 BASE Database for outdoor air 90th percentile concentration of less than 1.6 µg/m^3. The sample from SV-01 had a PCE concentration of 9,832.72 µg/m^3 that was higher than the EPA 2001 BASE Database for outdoor air 90th percentile concentration of 6.5 µg/m^3. Finally, the duplicate sample from SV-02 had a concentration of 1,4-dichlorobenzene of 2.4 µg/m^3 that was higher than the EPA 2001 BASE Database for outdoor air 90th percentile concentration of 1.2 µg/m^3.

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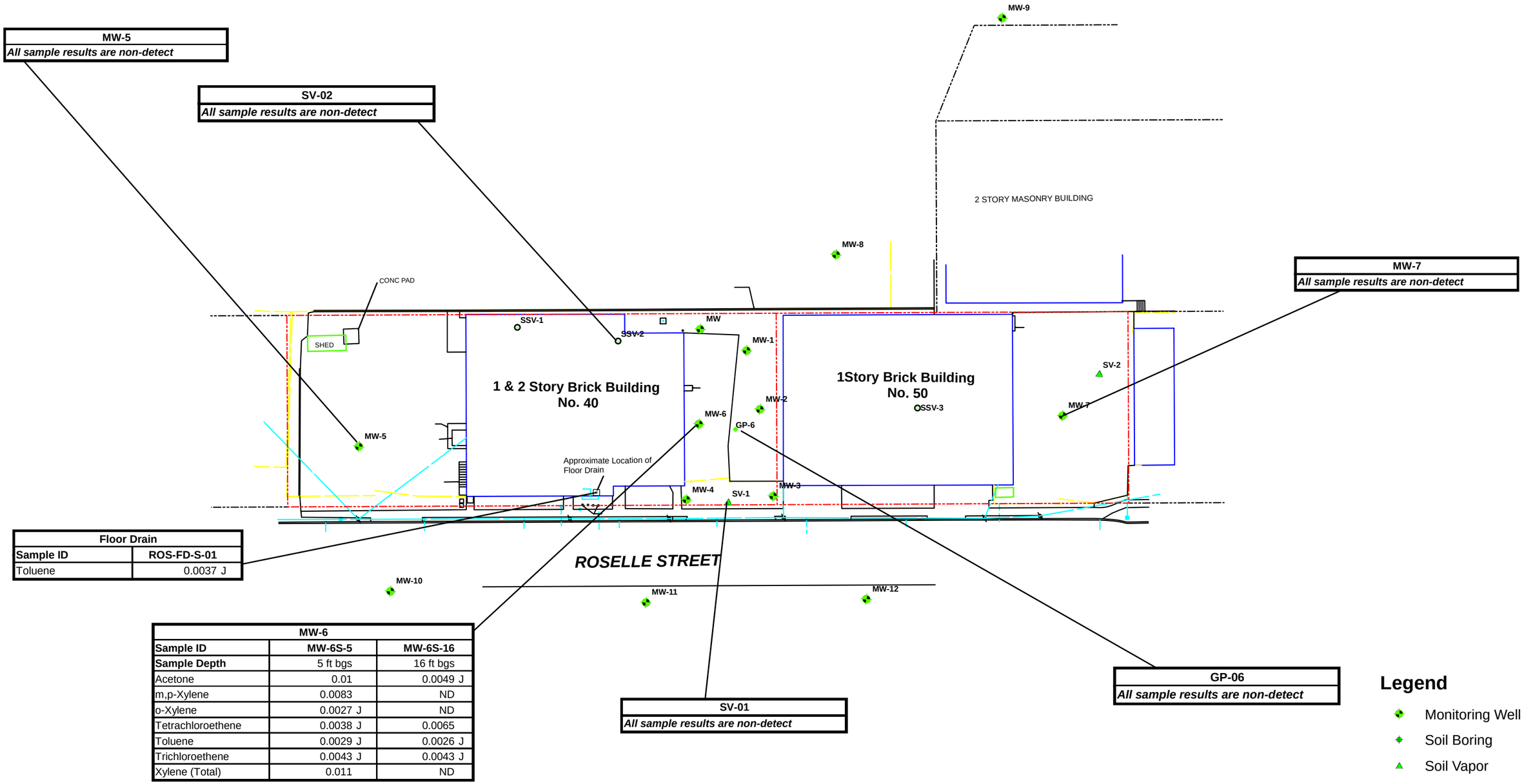

Floor Drain	
Sample ID	**ROS-FD-S-01**
Toluene	0.0037 J

MW-6		
Sample ID	**MW-6S-5**	**MW-6S-16**
Sample Depth	5 ft bgs	16 ft bgs
Acetone	0.01	0.0049 J
m,p-Xylene	0.0083	ND
o-Xylene	0.0027 J	ND
Tetrachloroethene	0.0038 J	0.0065
Toluene	0.0029 J	0.0026 J
Trichloroethene	0.0043 J	0.0043 J
Xylene (Total)	0.011	ND

SV-01
All sample results are non-detect

GP-06
All sample results are non-detect

Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

Note:
All units in mg/kg.

J -Estimated concentration. Value is above method detection limit but below reporting limit.
ND - Compound not detected.

N

0 25 50
Feet

CDM

Figure 4-1
Soil Sample Results
Volatile Organic Compounds
40 & 50 Roselle Street
Mineola, Nassau County, New York

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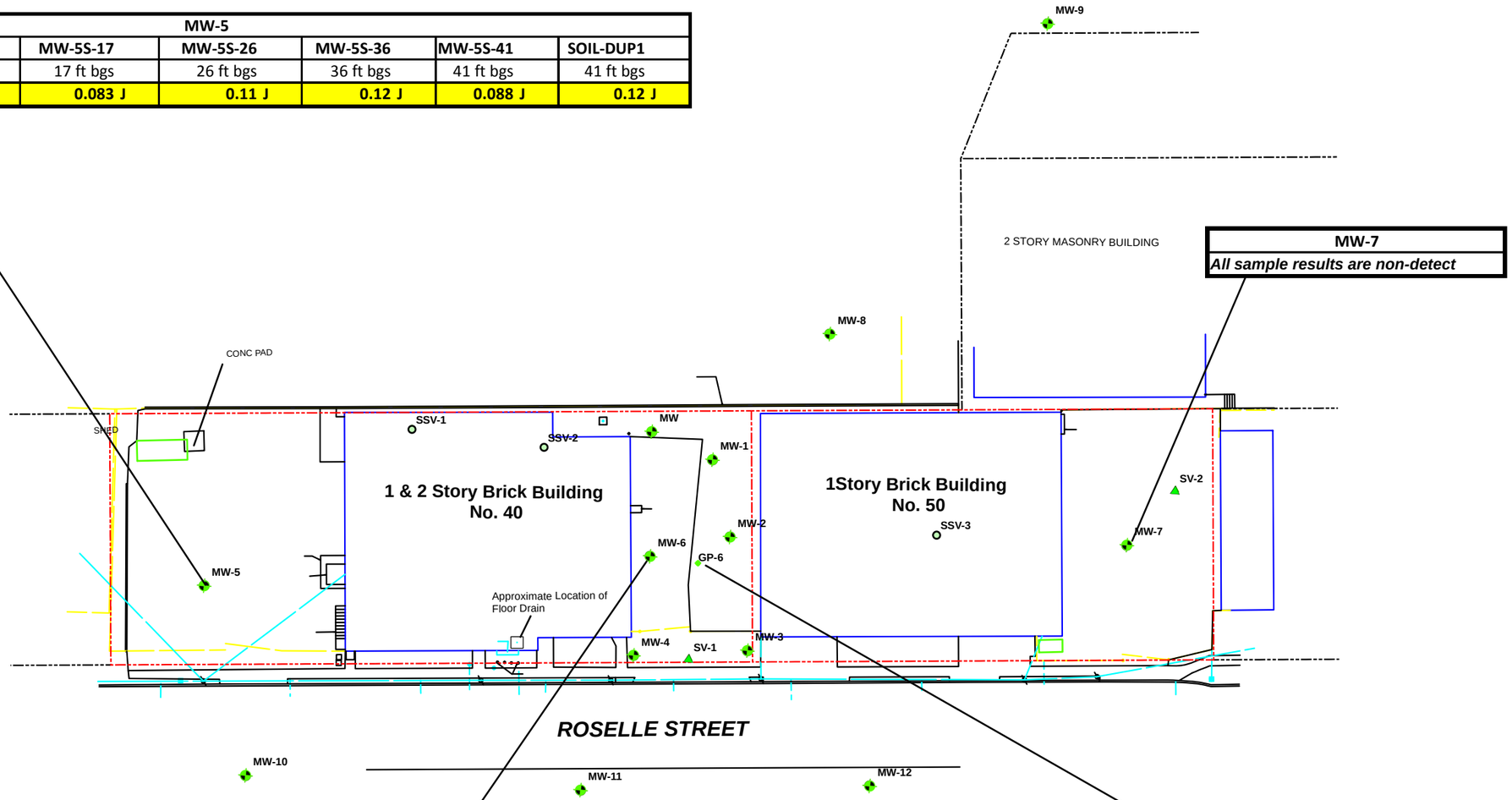
MW-5						
Sample ID	**MW-5S-6**	**MW-5S-17**	**MW-5S-26**	**MW-5S-36**	**MW-5S-41**	**SOIL-DUP1**
Sample Depth	6 ft bgs	17 ft bgs	26 ft bgs	36 ft bgs	41 ft bgs	41 ft bgs
Phenol	**0.11 J**	**0.083 J**	**0.11 J**	**0.12 J**	**0.088 J**	**0.12 J**

MW-7
All sample results are non-detect

MW-6				
Sample ID	**MW-6S-5**	**MW-6S-16**	**MW-6S-27**	**MW-6S-32**
Sample Depth	5 ft bgs	16 ft bgs	27 ft bgs	32 ft bgs
Phenol	**0.11 J**	**0.089 J**	**0.095 J**	**0.14 J**

GP-06
All sample results are non-detect



Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

Note:

Bold - compound exceeds NYSDEC Recommended Soil Cleanup Objectives

All units in mg/kg.

J -Estimated concentration. Value is above method detection limit but below reporting limit.
ND - Compound not detected.

N

0 25 50

Feet

CDM

Figure 4-2
Soil Sample Results
Semi-volatile Organic Compounds
40 & 50 Roselle Street
Mineola, Nassau County, New York

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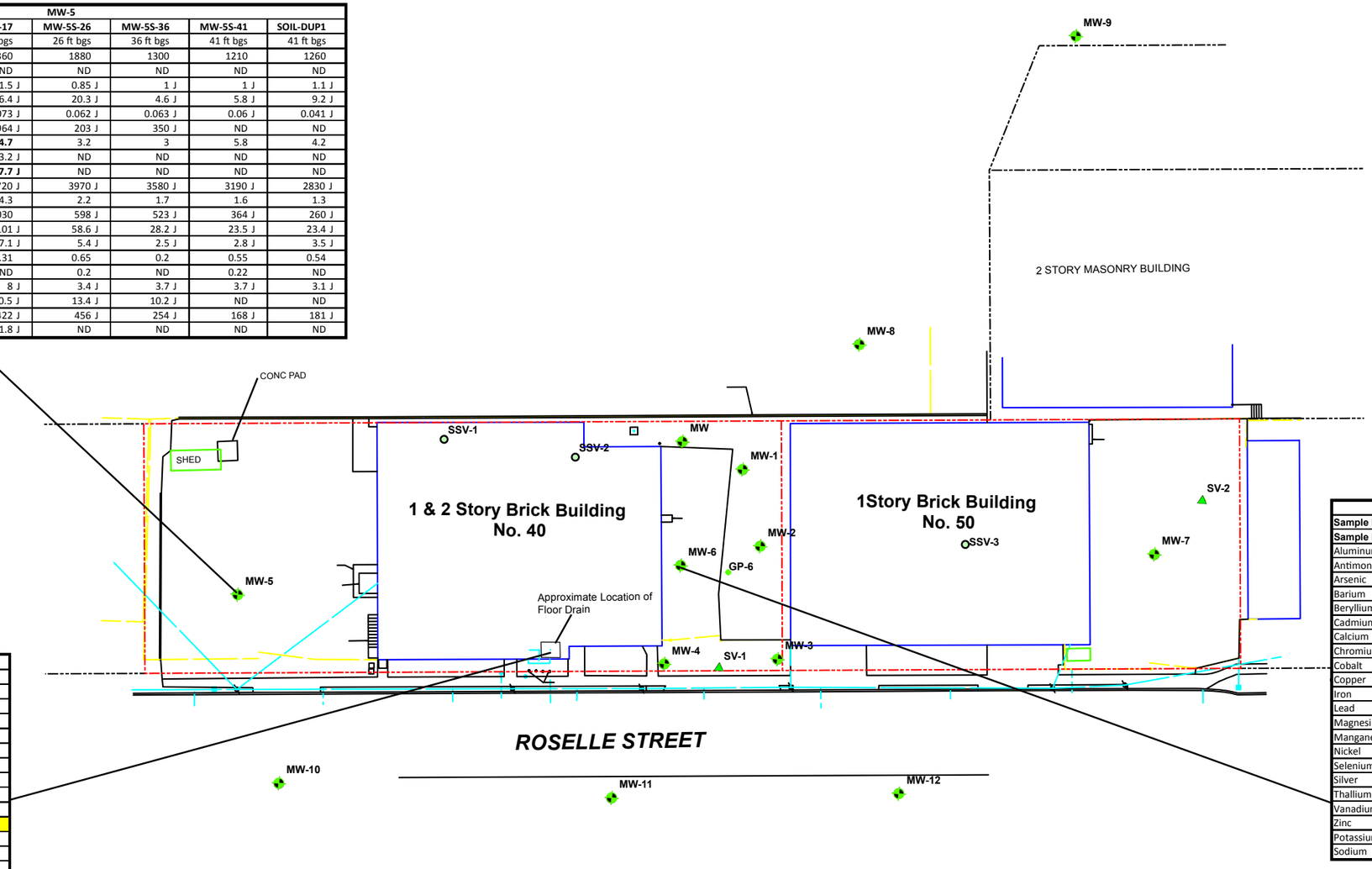
MW-5						
Sample ID	**MW-5S-6**	**MW-5S-17**	**MW-5S-26**	**MW-5S-36**	**MW-5S-41**	**SOIL-DUP1**
Sample Depth	6 ft bgs	17 ft bgs	26 ft bgs	36 ft bgs	41 ft bgs	41 ft bgs
Aluminum	5680	2360	1880	1300	1210	1260
Antimony	ND	ND	ND	ND	ND	ND
Arsenic	2.9 J	1.5 J	0.85 J	1 J	1 J	1.1 J
Barium	17 J	16.4 J	20.3 J	4.6 J	5.8 J	9.2 J
Beryllium	0.3 J	0.073 J	0.062 J	0.063 J	0.06 J	0.041 J
Calcium	3810	964 J	203 J	350 J	ND	ND
Chromium	**30.6**	**14.7**	3.2	3	5.8	4.2
Cobalt	4 J	3.2 J	ND	ND	ND	ND
Copper	19.6 J	**37.7 J**	ND	ND	ND	ND
Iron	21000 J	7720 J	3970 J	3580 J	3190 J	2830 J
Lead	6.4	4.3	2.2	1.7	1.6	1.3
Magnesium	2660	1030	598 J	523 J	364 J	260 J
Manganese	226 J	101 J	58.6 J	28.2 J	23.5 J	23.4 J
Nickel	12	7.1 J	5.4 J	2.5 J	2.8 J	3.5 J
Selenium	1.2	0.31	0.65	0.2	0.55	0.54
Thallium	ND	ND	0.2	ND	0.22	ND
Vanadium	25.4 J	8 J	3.4 J	3.7 J	3.7 J	3.1 J
Zinc	21.9 J	20.5 J	13.4 J	10.2 J	ND	ND
Potassium	572 J	422 J	456 J	254 J	168 J	181 J
Sodium	237 J	71.8 J	ND	ND	ND	ND



Floor Drain	
Sample ID	**ROS-FD-S-01**
Sample Depth	Floor Drain
Mercury	0.0086 J
Aluminum	2730
Barium	14.7 J
Beryllium	0.13 J
Cadmium	0.32 J
Calcium	437 J
Chromium	6.9 J
Cobalt	8.3 J
Copper	355
Iron	6580
Lead	21.3
Magnesium	1270
Manganese	169
Nickel	10.3
Selenium	ND
Silver	ND
Vanadium	5.8 J
Zinc	68
Potassium	454 J
Sodium	51.8 J

MW-6				
Sample ID	**MW-6S-5**	**MW-6S-16**	**MW-6S-27**	**MW-6S-32**
Sample Depth	5 ft bgs	16 ft bgs	27 ft bgs	32 ft bgs
Aluminum	2590	2240	1960	1730
Antimony	ND	ND	ND	ND
Arsenic	1.2 J	1.3 J	4.5 J	1.7 J
Barium	15.9 J	17 J	9.1 J	4.8 J
Beryllium	0.084 J	0.1 J	0.081 J	0.089 J
Cadmium	ND	ND	ND	ND
Calcium	550 J	3900	278 J	259 J
Chromium	8.5	10.3	6.8	24
Cobalt	2.1 J	2.5 J	5.1 J	ND
Copper	ND	ND	ND	ND
Iron	7260 J	6360 J	7080 J	6220 J
Lead	4	5.4	2.5	1.9
Magnesium	922 J	2470	750 J	862 J
Manganese	76.6 J	104 J	90.3 J	64.7 J
Nickel	6.2 J	6.3 J	7.2 J	6.1 J
Selenium	0.17	ND	0.89	0.48
Silver	ND	ND	ND	ND
Thallium	0.35	ND	0.23	ND
Vanadium	6.1 J	7.6 J	4.9 J	5.8 J
Zinc	14 J	25.7 J	22.6 J	15.9 J
Potassium	611 J	473 J	364 J	208 J
Sodium	ND	ND	ND	ND

Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

Note:

Bold - compound exceeds NYSDEC Unrestricted Use Soil Cleanup Objectives

All units in mg/kg.

J -Estimated concentration. Value is above method detection limit but below reporting limit.
ND - Compound not detected.

N

0 25 50

Feet

CDM

Figure 4-3
Soil Sample Results
Metals
40 & 50 Roselle Street
Mineola, Nassau County, New York

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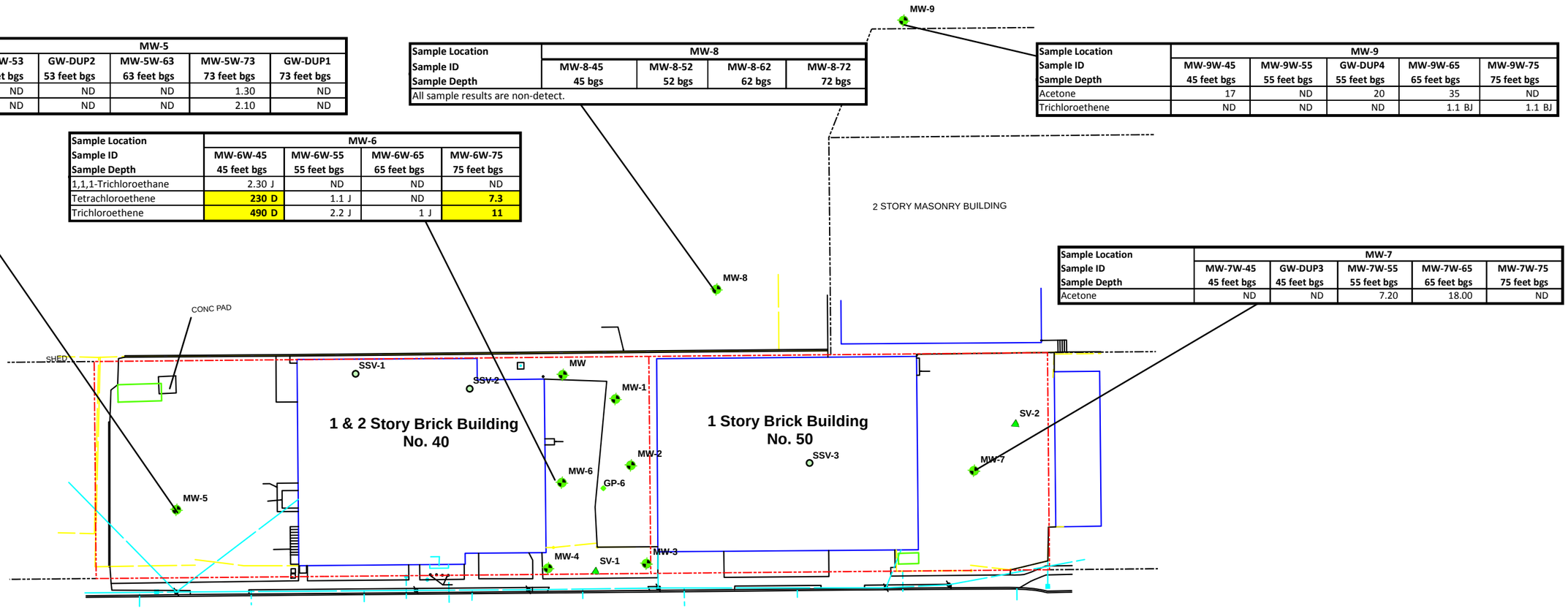
Sample Location	MW-5				
Sample ID	MW-5W-53	GW-DUP2	MW-5W-63	MW-5W-73	GW-DUP1
Sample Depth	53 feet bgs	53 feet bgs	63 feet bgs	73 feet bgs	73 feet bgs
Tetrachloroethene	ND	ND	ND	1.30	ND
Trichloroethene	ND	ND	ND	2.10	ND

Sample Location	MW-8			
Sample ID	MW-8-45	MW-8-52	MW-8-62	MW-8-72
Sample Depth	45 bgs	52 bgs	62 bgs	72 bgs
All sample results are non-detect.				

Sample Location	MW-9				
Sample ID	MW-9W-45	MW-9W-55	GW-DUP4	MW-9W-65	MW-9W-75
Sample Depth	45 feet bgs	55 feet bgs	55 feet bgs	65 feet bgs	75 feet bgs
Acetone	17	ND	20	35	ND
Trichloroethene	ND	ND	ND	1.1 BJ	1.1 BJ

Sample Location	MW-6			
Sample ID	MW-6W-45	MW-6W-55	MW-6W-65	MW-6W-75
Sample Depth	45 feet bgs	55 feet bgs	65 feet bgs	75 feet bgs
1,1,1-Trichloroethane	2.30 J	ND	ND	ND
Tetrachloroethene	**230 D**	1.1 J	ND	**7.3**
Trichloroethene	**490 D**	2.2 J	1 J	**11**

Sample Location	MW-7				
Sample ID	MW-7W-45	GW-DUP3	MW-7W-55	MW-7W-65	MW-7W-75
Sample Depth	45 feet bgs	45 feet bgs	55 feet bgs	65 feet bgs	75 feet bgs
Acetone	ND	ND	7.20	18.00	ND



ROSELLE STREET

Sample Location	MW-10		
Sample ID	MW-10-55	MW-10-65	MW-10-75
Sample Depth	55 bgs	65 bgs	75 bgs
All sample results are non-detect.			

Sample Location	MW-11			
Sample ID	MW-11-45	MW-11-55	MW-11-65	MW-11-75
Sample Depth	45 bgs	55 bgs	65 bgs	75 bgs
1,1,1-Trichloroethane	1.4 J	ND	ND	ND
1,2,4-Trimethylbenzene	ND	1.2 J	ND	ND
cis-1,2-Dichloroethene	**27**	1.2 J	1 J	ND
n-Butylbenzene	2 J	**13**	ND	ND
Naphthalene	120	**270** D	1.5 J	ND
sec-Butylbenzene	1.2 J	4.7 J	ND	ND
Tetrachloroethene	**7.1**	ND	ND	ND
Trichloroethene	**310 D**	**17**	ND	ND

Sample Location	MW-12				
Sample ID	MW-12-45	GW-DUP5	MW-12-55	MW-12-65	MW-12-75
Sample Depth	45 feet bgs	45 feet bgs	55 feet bgs	65 feet bgs	75 feet bgs
1,1,1-Trichloroethane	2 J	ND	ND	ND	ND
n-Butylbenzene	ND	ND	2.1 J	ND	ND
Naphthalene	1.9 J	7.1	**22**	ND	2.3 J
sec-Butylbenzene	ND	ND	1.5 J	ND	ND
Tetrachloroethene	**15**	ND	1.3 J	ND	ND
Trichloroethene	**74**	4.5 J	**6.1**	ND	1.1 J

Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

Note:

Bold - compound exceeds NYSDEC Class GA Guidance or Standard

All units in µg/L.

D - Dilution concentration
J - Estimated concentration; concentration is above the detection limit, but below the reporting limit.
ND - Compound not detected.

N

0 25 50

Feet

CDM

Figure 4-4
Groundwater Vertical Profile Data
40 & 50 Roselle Street
Mineola, Nassau County, New York

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ROS-MW-2	
1,1,1-Trichloroethane	**7.8**
1,2,4-Trimethylbenzene	**29**
1,3,5-Trimethylbenzene	**13**
2-Butanone	5.5
2-Hexanone	4.5 J
Acetone	19
Carbon disulfide	4.1 J
Isopropylbenzene	3.2 J
m,p-Xylene	4.6 J
n-Butylbenzene	130
n-Propylbenzene	8.5
Naphthalene	**3200 D**
o-Xylene	**5.2**
sec-Butylbenzene	**42**
Tetrachloroethene	**21**
Toluene	1.3 J
Trichloroethene	**1000 D**
Xylene (Total)	**9.90**

ROS-MW-08
All sample results are non-detect.

ROS-MW-09	
Naphthalene	1.20 J

ROS-MW-05
All sample results are non-detect.

ROS-MW-1
All sample results are non-detect.

ROS-MW-07
All sample results are non-detect.

ROS-MW-4	
1,1,1-Trichloroethane	2 J
1,2,4-Trimethylbenzene	**18**
1,3,5-Trimethylbenzene	3.2 J
2-Hexanone	2.1 J
Acetone	5.1
Carbon disulfide	2.3
cis-1,2-Dichloroethene	**17**
Isopropylbenzene	1.6 J
m,p-Xylene	1.2 J
n-Butylbenzene	**92**
n-Propylbenzene	2.7 J
Naphthalene	**1000 D**
o-Xylene	1.4 J
sec-Butylbenzene	**66**
tert-Butylbenzene	1.2 J
Tetrachloroethene	**8.1**
Trichloroethene	**190 D**
Xylene (Total)	**2.6 J**

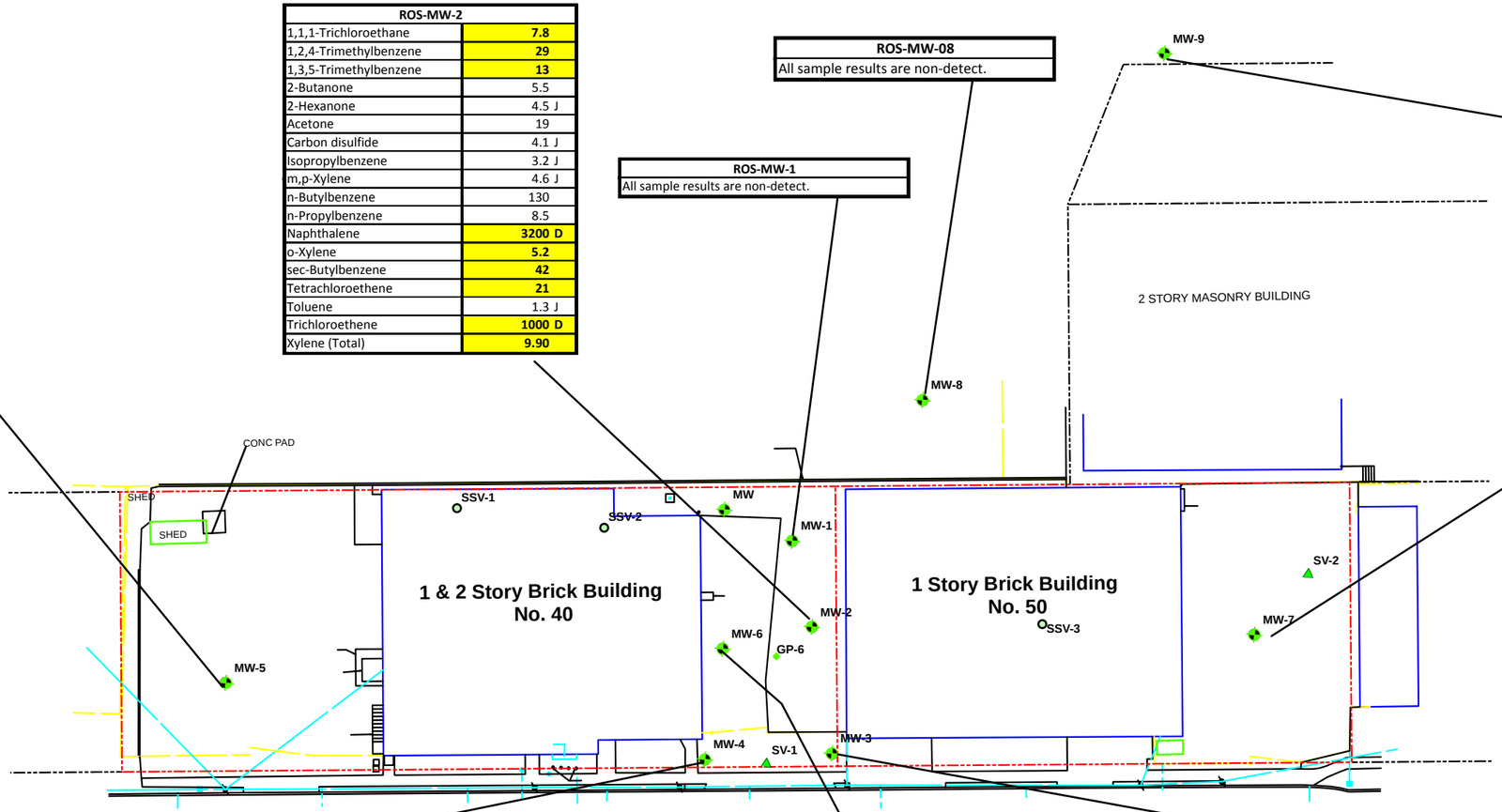
	ROS-MW-3	ROS-MW-33 (Duplicate)
1,1,1-Trichloroethane	**41**	**44**
1,1,2-Trichloroethane	**2.3 J**	**2.3 J**
1,1-Dichloroethane	1.9	2.1
1,2,4-Trimethylbenzene	**48**	**53**
1,3,5-Trimethylbenzene	**7.9**	**8.9**
2-Butanone	ND	2.7
2-Hexanone	3 J	3.3 J
Acetone	6.6	8.5
Ethylbenzene	1.2 J	1.2 J
Isopropylbenzene	2.9 J	3.2 J
m,p-Xylene	4.1 J	4.6 J
n-Butylbenzene	**100**	**120**
n-Propylbenzene	3.2 J	3.3 J
Naphthalene	**1200 D**	**1300 D**
o-Xylene	**11**	**12**
sec-Butylbenzene	**78**	**90**
tert-Butylbenzene	2.4 J	2.6 J
Tetrachloroethene	**13**	**14**
Toluene	2.8 J	3.2 J
Trichloroethene	**430 D**	**470 D**
Xylene (Total)	**15**	**17**

	ROS-MW-10	ROS-MW-101 (Duplicate)
All sample results are non-detect.		

ROS-MW-11	
1,2,4-Trimethylbenzene	**16 J**
cis-1,2-Dichloroethene	**890**
Methylene chloride	**22 J**
n-Butylbenzene	**84**
Naphthalene	**2100**
sec-Butylbenzene	**17 J**
Tetrachloroethene	**49 J**
Trichloroethene	**360**

ROS-MW-06	
Tetrachloroethene	**17**
Trichloroethene	**36**

ROS-MW-12	
1,1,1-Trichloroethane	2.5 J
Tetrachloroethene	**28**
Trichloroethene	**110**



Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

Note:

Bold - compound exceeds NYSDEC Class GA Guidance or Standard

All units in µg/L.

D - Dilution concentration
J - Estimated concentration; concentration is above the detection limit, but below the reporting limit.
ND - Compound not detected.

N

0 25 50

Feet

CDM

Figure 4-5
Groundwater Sample Results
Volatile Organic Compounds
40 & 50 Roselle Street
Mineola, Nassau County, New York

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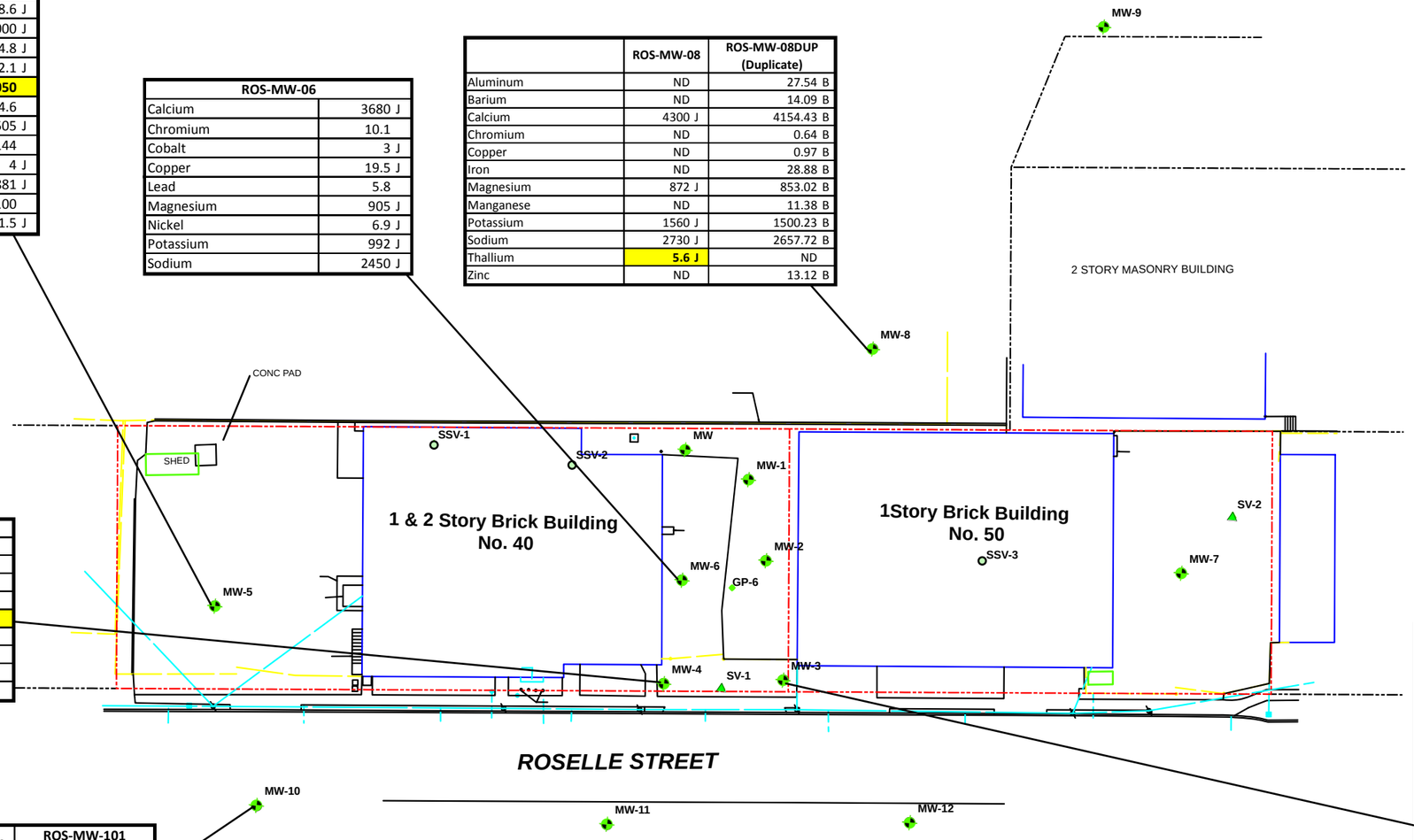
ROS-MW-05	
Aluminum	816
Barium	18.6 J
Calcium	2000 J
Chromium	4.8 J
Cobalt	2.1 J
Iron	**2050**
Lead	4.6
Magnesium	505 J
Manganese	144
Nickel	4 J
Potassium	881 J
Sodium	14100
Vanadium	1.5 J

ROS-MW-06	
Calcium	3680 J
Chromium	10.1
Cobalt	3 J
Copper	19.5 J
Lead	5.8
Magnesium	905 J
Nickel	6.9 J
Potassium	992 J
Sodium	2450 J

	ROS-MW-08	ROS-MW-08DUP (Duplicate)
Aluminum	ND	27.54 B
Barium	ND	14.09 B
Calcium	4300 J	4154.43 B
Chromium	ND	0.64 B
Copper	ND	0.97 B
Iron	ND	28.88 B
Magnesium	872 J	853.02 B
Manganese	ND	11.38 B
Potassium	1560 J	1500.23 B
Sodium	2730 J	2657.72 B
Thallium	**5.6 J**	ND
Zinc	ND	13.12 B

ROS-MW-4	
Aluminum	270
Arsenic	3.2 J
Calcium	4060 J
Chromium	5.4 J
Iron	**6090**
Magnesium	1260 J
Potassium	2360 J
Selenium	6
Sodium	13600



	ROS-MW-10	ROS-MW-101 (Duplicate)
Calcium	1160 J	842 J
Chromium	4 J	4.1 J
Cobalt	0.83 J	0.82 J
Lead	5.10	3.40
Magnesium	242 J	224 J
Manganese	36.7	38.2
Nickel	3.6 J	3.3 J
Potassium	1120 J	1080 J
Zinc	43.6	24.9

	ROS-MW-3	ROS-MW-33 (Duplicate)
Aluminum	125 J	121 J
Arsenic	4.7 J	5 J
Cadmium	0.24 J	ND
Calcium	3920 J	3990 J
Chromium	9.1 J	7.6 J
Cobalt	2.7 J	2.5 J
Iron	**24200**	**24100**
Magnesium	1010 J	1000 J
Manganese	**348**	**342**
Nickel	6 J	6 J
Potassium	1650 J	1670 J
Sodium	10100	10400

Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

Note:

Bold - compound exceeds NYSDEC Class GA Guidance or Standard

All units in mg/kg.

J - Estimated concentration; concentration is above the detection limit, but below the reporting limit.
ND - Compound not detected.
B - Compound in laboratory blank.

N

0 25 50

Feet

CDM

Figure 4-6
Groundwater Sample Results
Metals
40 & 50 Roselle Street
Mineola, Nassau County, New York

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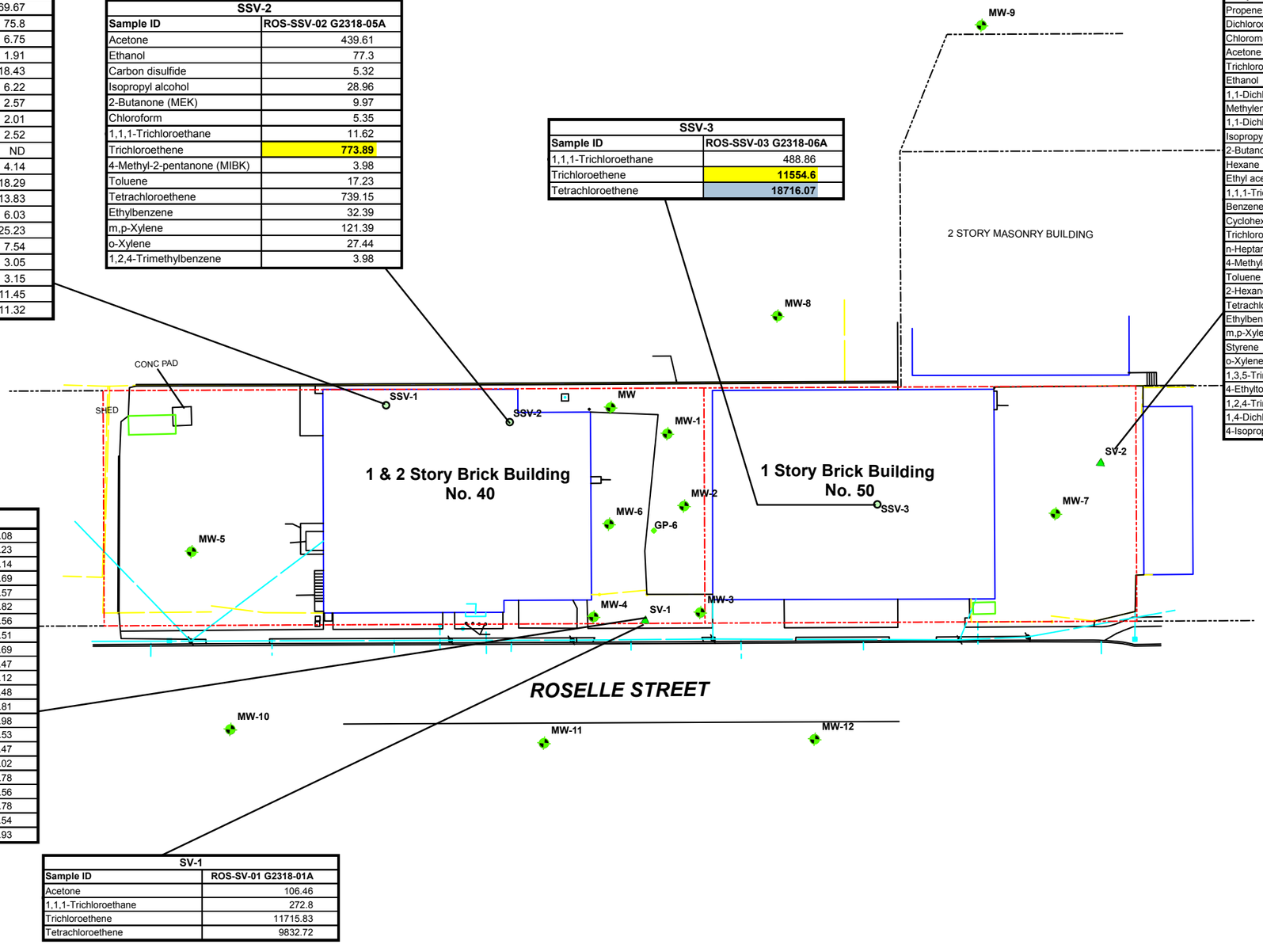
SSV-1	
Sample ID	**ROS-SSV-01 G2318-04A**
Acetone	169.67
Ethanol	75.8
Carbon disulfide	6.75
Methyl tert-butyl ether	1.91
Isopropyl alcohol	18.43
2-Butanone (MEK)	6.22
Hexane	2.57
Tetrahydrofuran	2.01
Benzene	2.52
1,1,1-Trichloroethane	ND
Trichloroethene	4.14
Toluene	18.29
Tetrachloroethene	13.83
Ethylbenzene	6.03
m,p-Xylene	25.23
o-Xylene	7.54
1,3,5-Trimethylbenzene	3.05
4-Ethyltoluene	3.15
1,2,4-Trimethylbenzene	11.45
4-Isopropyltoluene	11.32

SSV-2	
Sample ID	**ROS-SSV-02 G2318-05A**
Acetone	439.61
Ethanol	77.3
Carbon disulfide	5.32
Isopropyl alcohol	28.96
2-Butanone (MEK)	9.97
Chloroform	5.35
1,1,1-Trichloroethane	11.62
Trichloroethene	**773.89**
4-Methyl-2-pentanone (MIBK)	3.98
Toluene	17.23
Tetrachloroethene	739.15
Ethylbenzene	32.39
m,p-Xylene	121.39
o-Xylene	27.44
1,2,4-Trimethylbenzene	3.98

SSV-3	
Sample ID	**ROS-SSV-03 G2318-06A**
1,1,1-Trichloroethane	488.86
Trichloroethene	**11554.6**
Tetrachloroethene	**18716.07**

SV-2		
	Soil Vapor	
Sample ID	**ROS-SV-02 G2318-02A***	**ROS-SV-02D G2318-03A**
Propene	1.36	ND
Dichlorodifluoromethane (Freon12)	2.08	1.98
Chloromethane	1.09	1.16
Acetone	16.52	20.79
Trichlorofluoromethane (Freon 11)	1.57	1.52
Ethanol	16.31	22.63
1,1-Dichloroethene	ND	0.63
Methylene chloride	0.38	0.35
1,1-Dichloroethane	ND	1.9
Isopropyl alcohol	3.95	5.82
2-Butanone (MEK)	ND	5.87
Hexane	3.14	2.36
Ethyl acetate	0.94	1.01
1,1,1-Trichloroethane	ND	41.68
Benzene	1.85	0.99
Cyclohexane	1	0.38
Trichloroethene	0.54	8.76
n-Heptane	1.52	1.23
4-Methyl-2-pentanone (MIBK)	ND	0.57
Toluene	17.69	13.81
2-Hexanone (MBK)	ND	1.15
Tetrachloroethene	1.36	4.88
Ethylbenzene	3.03	2.3
m,p-Xylene	10.97	7.85
Styrene	0.85	0.94
o-Xylene	3.82	2.56
1,3,5-Trimethylbenzene	1.43	0.93
4-Ethyltoluene	1.23	1.03
1,2,4-Trimethylbenzene	4.18	3.59
1,4-Dichlorobenzene	1.14	2.4
4-Isopropyltoluene	1.66 J	1.82 J

Ambient Air (North of SV-1)	
Propene	1.08
Dichlorodifluoromethane (Freon12)	2.23
Chloromethane	1.14
Acetone	10.69
Trichlorofluoromethane (Freon 11)	1.57
Ethanol	9.82
Methylene chloride	0.56
Isopropyl alcohol	7.51
Hexane	1.69
Ethyl acetate	0.47
Benzene	1.12
Cyclohexane	0.48
Trichloroethene	0.81
n-Heptane	0.98
4-Methyl-2-pentanone (MIBK)	0.53
Toluene	6.47
Tetrachloroethene	1.02
Ethylbenzene	0.78
m,p-Xylene	2.56
o-Xylene	0.78
1,3,5-Trimethylbenzene	0.54
1,2,4-Trimethylbenzene	0.93



SV-1	
Sample ID	**ROS-SV-01 G2318-01A**
Acetone	106.46
1,1,1-Trichloroethane	272.8
Trichloroethene	11715.83
Tetrachloroethene	9832.72

Legend

- Monitoring Well
- Soil Boring
- Soil Vapor
- Sub-slab Soil Vapor

Note:

All units in µg/m3.

ND - Compound not detected.

- Sub-slab vapor concentration exceeds 250 µg/m3; NYSDOH Matrix 1 indicates Mitigation is necessary

- Sub-slab vapor concentration exceeds 1000 µg/m3; NYSDOH Matrix 2 indicates Mitigation is necessary

N

0 25 50

Feet

CDM

Figure 4-7
Soil Vapor Sample Results
40 & 50 Roselle Street
Mineola, Nassau County, New York

Table 4-1
Soil Sampling Analytical Results - VOCs
40 & 50 Roselle Street
Mineola, New York

Sample ID		NYSDEC Part 375 Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (mg/kg)	ROS-GP-06-05	ROS-GP-06-18	ROS-GP-06-28	ROS-GP-06-36	MW-5S-6	MW-5S-17	MW-5S-26	MW-5S-36	MW-5S-41	SOIL-DUP1	MW-6S-5	MW-6S-16
Sample Location			**GP-06**	**GP-06**	**GP-06**	**GP-06**	**MW-5**	**MW-5**	**MW-5**	**MW-5**	**MW-5**	**MW-5**	**MW-6**	**MW-6**
Sample Depth			5 ft bgs	18 ft bgs	28 ft bgs	36 ft bgs	6 ft bgs	17 ft bgs	26 ft bgs	36 ft bgs	41 ft bgs	41 ft bgs	5 ft bgs	16 ft bgs
Lab Sample Number			G2245-01	G2245-02	G2245-03	G2245-04	G2245-12	G2245-13	G2245-14	G2245-15	G2245-16	G2245-17	G2245-09	G2245-08
Sampling Date			12/2/2008	12/1/2008	12/1/2008	12/1/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/4/2008	12/4/2008
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
COMPOUND	**CAS#**													
Volatile Organic Compounds (EPA 8260)														
1,1,1,2-Tetrachloroethane	630-20-6	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,1,1-Trichloroethane	71-55-6	0.68	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,1,2-Trichloroethane	79-00-5	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,1-Dichloroethane	75-34-3	0.27	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,1-Dichloroethene	75-35-4	0.33	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,1-Dichloropropene	563-58-6	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2,3-Trichlorobenzene	87-61-6	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2,3-Trichloropropane	96-18-4	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2,4-Trichlorobenzene	120-82-1	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2,4-Trimethylbenzene	95-63-6	3.60	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2-Dibromoethane	106-93-4	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2-Dichlorobenzene	95-50-1	1.10	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2-Dichloroethane	107-06-2	0.02	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,2-Dichloropropane	78-87-5	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,3,5-Trimethylbenzene	108-67-8	8.40	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,3-Dichlorobenzene	541-73-1	2.40	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,3-Dichloropropane	142-28-9	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
1,4-Dichlorobenzene	106-46-7	1.80	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
2,2-Dichloropropane	594-20-7	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
2-Butanone	78-93-3	0.12	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
2-Chlorotoluene	95-49-8	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
2-Hexanone	591-78-6	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
4-Chlorotoluene	106-43-4	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
4-Isopropyltoluene	99-87-6	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
4-Methyl-2-pentanone	108-10-1	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Acetone	67-64-1	0.05	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.01	0.0049 J
Benzene	71-43-2	0.06	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Bromobenzene	108-86-1	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Bromochloromethane	74-97-5	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Bromodichloromethane	75-27-4	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Bromoform	75-25-2	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Bromomethane	74-83-9	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Carbon disulfide	75-15-0	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Carbon tetrachloride	56-23-5	0.76	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Chlorobenzene	108-90-7	1.10	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Chloroethane	75-00-3	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Chloroform	67-66-3	0.37	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Chloromethane	74-87-3	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
cis-1,2-Dichloroethene	156-59-2	0.25	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
cis-1,3-Dichloropropene	10061-01-5	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Dibromochloromethane	124-48-1	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Dibromomethane	74-95-3	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Dichlorodifluoromethane	75-71-8	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Ethylbenzene	100-41-4	1.00	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Hexachlorobutadiene	87-68-3	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Iodomethane	74-88-4	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Isopropylbenzene	98-82-8	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
m,p-Xylene	1330-20-7	0.26	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0083	0.0056 U
Methyl tert-butyl ether	1634-04-4	0.93	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Methylene chloride	75-09-2	0.05	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
n-Butylbenzene	104-51-8	12.00	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
n-Propylbenzene	103-65-1	3.90	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Naphthalene	91-20-3	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
o-Xylene	95-47-6	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0027 J	0.0056 U
sec-Butylbenzene	135-98-8	11.00	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Styrene	100-42-5	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
tert-Butylbenzene	98-06-6	5.90	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Tetrachloroethene	127-18-4	1.30	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0038 J	0.0065
Toluene	108-88-3	0.70	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0029 J	0.0026 J
trans-1,2-Dichloroethene	156-60-5	0.19	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
trans-1,3-Dichloropropene	10061-02-6	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Trichloroethene	79-01-6	0.47	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0043 J	0.0043 J
Trichlorofluoromethane	75-69-4	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Vinyl acetate	108-05-4	NL	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Vinyl chloride	75-01-4	0.02	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.0054 U	0.0056 U
Xylene (Total)	1330-20-7	0.26	0.0052 U	0.0059 U	0.005 U	0.0061 U	0.0043 U	0.005 U	0.0048 U	0.0052 U	0.0046 U	0.0052 U	0.011	0.0056 U
TICs			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NL - Not listed
J - Estimated
UJ - Not detected, estimated reporting limit
U - Compound not detected at reporting limit
ND - Not detected
NJ - Compound tentatively idenified
mg/kg - milligram per kilogram
Bold - compound exceeds NYSDEC recommended soil cleanup objectives.

Table 4-1
Soil Sampling Analytical Results - VOCs
40 & 50 Roselle Street
Mineola, New York

Sample ID		NYSDEC Part 375 Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (mg/kg)	MW-6S-27	MW-6S-32	MW-7S-6	MW-7S-16	MW-7S-26	SOIL-DUP-2	MW-7S-36	MW-7S-42	SOIL-DUP-3	ROS-FD-S-01	ROS-SV-01S-5	ROS-SV-2S-02-07	ROS-FB-12-2-08-5
Sample Location			**MW-6**	**MW-6**	**MW-7**	**MW-7**	**MW-7**	**MW-7**	**MW-7**	**MW-7**	**MW-7**	**Floor Drain**	**SV-01**	**SV-02**	**FIELD BLANK**
Sample Depth			27 ft bgs	32 ft bgs	6 ft bgs	16 ft bgs	26 ft bgs	6 ft bgs	36 ft bgs	42 ft bgs	42 ft bgs		5 ft bgs	7 ft bgs	FIELD BLANK
Lab Sample Number			G2245-10	G2245-11	G2306-02	G2306-03	G2306-04	G2306-05	G2306-06	G2306-07	G2306-08	G2306-01	G2245-05	G2245-07	G2245-06
Sampling Date			12/4/2008	12/4/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/8/2008	12/2/2008	12/2/2008	12/2/2008
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
COMPOUND	**CAS#**														
Volatile Organic Compounds (EPA 8260)															
1,1,1,2-Tetrachloroethane	630-20-6	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,1,1-Trichloroethane	71-55-6	0.68	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,1,2-Trichloroethane	79-00-5	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,1-Dichloroethane	75-34-3	0.27	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,1-Dichloroethene	75-35-4	0.33	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,1-Dichloropropene	563-58-6	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2,3-Trichlorobenzene	87-61-6	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2,3-Trichloropropane	96-18-4	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2,4-Trichlorobenzene	120-82-1	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 UJ	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2,4-Trimethylbenzene	95-63-6	3.60	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2-Dibromoethane	106-93-4	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2-Dichlorobenzene	95-50-1	1.10	0.0054 U	0.0056 U	0.0061 U	0.0059 UJ	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2-Dichloroethane	107-06-2	0.02	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,2-Dichloropropane	78-87-5	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,3,5-Trimethylbenzene	108-67-8	8.40	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,3-Dichlorobenzene	541-73-1	2.40	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,3-Dichloropropane	142-28-9	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
1,4-Dichlorobenzene	106-46-7	1.80	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
2,2-Dichloropropane	594-20-7	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
2-Butanone	78-93-3	0.12	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
2-Chlorotoluene	95-49-8	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 UJ	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
2-Hexanone	591-78-6	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
4-Chlorotoluene	106-43-4	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 UJ	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
4-Isopropyltoluene	99-87-6	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 UJ	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
4-Methyl-2-pentanone	108-10-1	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Acetone	67-64-1	0.05	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Benzene	71-43-2	0.06	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Bromobenzene	108-86-1	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Bromochloromethane	74-97-5	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Bromodichloromethane	75-27-4	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Bromoform	75-25-2	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Bromomethane	74-83-9	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Carbon disulfide	75-15-0	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Carbon tetrachloride	56-23-5	0.76	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Chlorobenzene	108-90-7	1.10	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Chloroethane	75-00-3	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Chloroform	67-66-3	0.37	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Chloromethane	74-87-3	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
cis-1,2-Dichloroethene	156-59-2	0.25	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
cis-1,3-Dichloropropene	10061-01-5	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Dibromochloromethane	124-48-1	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Dibromomethane	74-95-3	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Dichlorodifluoromethane	75-71-8	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Ethylbenzene	100-41-4	1.00	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Hexachlorobutadiene	87-68-3	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Iodomethane	74-88-4	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 UJ	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Isopropylbenzene	98-82-8	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
m,p-Xylene	1330-20-7	0.26	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Methyl tert-butyl ether	1634-04-4	0.93	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Methylene chloride	75-09-2	0.05	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
n-Butylbenzene	104-51-8	12.00	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
n-Propylbenzene	103-65-1	3.90	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Naphthalene	91-20-3	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
o-Xylene	95-47-6	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
sec-Butylbenzene	135-98-8	11.00	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Styrene	100-42-5	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
tert-Butylbenzene	98-06-6	5.90	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Tetrachloroethene	127-18-4	1.30	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Toluene	108-88-3	0.70	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0037 J	0.0051 U	0.0053 U	0.005 U
trans-1,2-Dichloroethene	156-60-5	0.19	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
trans-1,3-Dichloropropene	10061-02-6	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Trichloroethene	79-01-6	0.47	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Trichlorofluoromethane	75-69-4	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Vinyl acetate	108-05-4	NL	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Vinyl chloride	75-01-4	0.02	0.0054 U	0.0056 U	0.0061 U	0.0059 U	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
Xylene (Total)	1330-20-7	0.26	0.0054 U	0.0056 U	0.0061 U	0.0059 UJ	0.0047 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0053 U	0.0051 U	0.0053 U	0.005 U
TICs			0.0092 NJ	0.015 NJ	ND	0.041 J	0.036 NJ	ND	0.082 J	0.082 J	0.058 J	ND	ND	ND	ND

NL - Not listed
J - Estimated
UJ - Not detected, estimated reporting limit
U - Compound not detected at reporting limit
ND - Not detected
NJ - Compound tentatively idenified
mg/kg - milligram per kilogram
Bold - compound exceeds NYSDEC recommended soil cleanup objectives.

CDM

Table 4-2
Soil Sampling Analytical Results - SVOCs
40 & 50 Roselle Street
Mineola, New York

Sample ID			ROS-GP-06-05	ROS-GP-06-18	ROS-GP-06-28	ROS-GP-06-36	MW-5S-6	MW-5S-17	MW-5S-26	MW-5S-36	MW-5S-41	SOIL-DUP1
Sample Location		**NYSDEC Part 375**	**GP-06**	**GP-06**	**GP-06**	**GP-06**	**MW-5**	**MW-5**	**MW-5**	**MW-5**	**MW-5**	**MW-5**
Sample Depth		**Table 375-6.8(a)**	5 ft bgs	18 ft bgs	28 ft bgs	36 ft bgs	6 ft bgs	17 ft bgs	26 ft bgs	36 ft bgs	41 ft bgs	41 ft bgs
Lab Sample Number		**Unrestricted Use**	G2245-01A	G2245-02A	G2245-03A	G2245-04A	G2245-12A	G2245-13A	G2245-14A	G2245-15A	G2245-16A	G2245-17A
Sampling Date		**Soil Cleanup**	12/2/2008	12/1/2008	12/1/2008	12/1/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008
Matrix		**Objectives (mg/kg)**	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
COMPOUND	***CAS#***											
Semivolatile Organic Compounds (EPA 8270) (mg/kg)												
1,2,4-Trichlorobenzene	120-82-1	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	95-50-1	1.10	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
1,3-Dichlorobenzene	541-73-1	2.40	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
1,4-Dichlorobenzene	106-46-7	1.80	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2,4,5-Trichlorophenol	95-95-4	NL	0.34 U	0.4 U	0.35 U	0.82 U	0.68 U	0.69 U	0.68 U	0.69 U	0.68 U	0.69 U
2,4,6-Trichlorophenol	88-06-2	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2,4-Dichlorophenol	120-83-2	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2,4-Dimethylphenol	105-67-9	NL	0.34 UJ	0.4 UJ	0.35 UJ	0.41 UJ	0.33 UJ	0.34 UJ	0.33 UJ	0.34 UJ	0.34 UJ	0.34 UJ
2,4-Dinitrophenol	51-28-5	NL	0.34 U	0.4 U	0.35 U	0.82 U	0.68 U	0.69 U	0.68 U	0.69 U	0.68 U	0.69 U
2,4-Dinitrotoluene	121-14-2	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2,6-Dinitrotoluene	606-20-2	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2-Chloronaphthalene	91-58-7	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2-Chlorophenol	95-57-8	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2-Methylnaphthalene	91-57-6	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2-Methylphenol	95-48-7	0.33	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
2-Nitroaniline	88-74-4	NL	0.34 U	0.4 U	0.35 U	0.82 U	0.68 U	0.69 U	0.68 U	0.69 U	0.68 U	0.69 U
2-Nitrophenol	88-75-5	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
3,3'-Dichlorobenzidine	91-94-1	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
3-Nitroaniline	99-09-2	NL	0.34 U	0.4 U	0.35 U	0.82 U	0.68 U	0.69 U	0.68 U	0.69 U	0.68 U	0.69 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	0.34 U	0.4 U	0.35 U	0.82 U	0.68 U	0.69 U	0.68 U	0.69 U	0.68 U	0.69 U
4-Bromophenyl-phenylether	101-55-3	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
4-Chloro-3-methylphenol	59-50-7	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
4-Chloroaniline	106-47-8	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
4-Chlorophenyl-phenylether	7005-72-3	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
4-Methylphenol	106-44-5	0.33	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
4-Nitroaniline	100-01-6	NL	0.7 UJ	0.81 UJ	0.7 UJ	0.82 UJ	0.68 UJ	0.69 UJ	0.68 UJ	0.69 UJ	0.68 UJ	0.69 UJ
4-Nitrophenol	100-02-7	NL	0.34 U	0.4 U	0.35 U	0.82 U	0.68 U	0.69 U	0.68 U	0.69 U	0.68 U	0.69 U
Acenaphthene	83-32-9	20.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Acenaphthylene	208-96-8	100.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Anthracene	120-12-7	100.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Benzo(a)anthracene	56-55-3	1.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Benzo(a)pyrene	50-32-8	1.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Benzo(b)fluoranthene	205-99-2	1.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Benzo(g,h,i)perylene	191-24-2	100.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Benzo(k)fluoranthene	207-08-9	0.80	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Bis(2-chloroethoxy)methane	111-91-1	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Bis(2-chloroethyl)ether	111-44-4	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Bis(2-ethylhexyl)phthalate	117-81-7	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Butylbenzylphthalate	85-68-7	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Carbazole	86-74-8	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Chrysene	218-01-9	1.00	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Di-n-butylphthalate	84-74-2	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Di-n-octylphthalate	117-84-0	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Dibenzofuran	132-64-9	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Diethylphthalate	84-66-2	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Dimethylphthalate	131-11-3	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Fluoranthene	206-44-0	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Fluorene	86-73-7	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Hexachlorobenzene	118-74-1	0.33	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Hexachlorobutadiene	87-68-3	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Hexachlorocyclopentadiene	77-47-4	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Hexachloroethane	67-72-1	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Indeno(1,2,3-cd)pyrene	193-39-5	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Isophorone	78-59-1	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
N-Nitroso-di-n-propylamine	621-64-7	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
N-Nitrosodiphenylamine	86-30-6	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Naphthalene	91-20-3	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Nitrobenzene	98-95-3	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Pentachlorophenol	87-86-5	NL	0.34 U	0.4 U	0.35 U	0.82 U	0.68 U	0.69 U	0.68 U	0.69 U	0.68 U	0.69 U
Phenanthrene	85-01-8	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
Phenol	108-95-2	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.11 J	0.083 J	0.11 J	0.12 J	0.088 J	0.12 J
Pyrene	129-00-0	NL	0.34 U	0.4 U	0.35 U	0.41 U	0.33 U	0.34 U	0.33 U	0.34 U	0.34 U	0.34 U
TICs			3.66 J	1.22 J	1.21 J	3.97 J	0.72 J	1.39 J	0.41 J	0.49 J	1.33 J	0.86 J

J - Estimated

UJ - Not detected, estimated reporting limit

U - Compound not detected at reporting limit

BNJ - Compound tentatively identified at estimated concentration. Compound detected in the blank.

mg/kg - milligram per kilogram

Bold - compound exceeds NYSDEC recommended soil cleanup objectives.

Table 4-2
Soil Sampling Analytical Results - SVOCs
40 & 50 Roselle Street
Mineola, New York

Sample ID			MW-6S-5	MW-6S-16	MW-6S-27	MW-6S-32	MW-7S-6	MW-7S-16	MW-7S-26	MW-7S-36	MW-7S-42	SOIL-DUP-2	SOIL-DUP-3	ROS-FB-12-2-08-5
Sample Location		NYSDEC Part 375 Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (mg/kg)	MW-6	MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	FIELD BLANK
Sample Depth			5 ft bgs	16 ft bgs	27 ft bgs	32 ft bgs	6 ft bgs	16 ft bgs	26 ft bgs	36 ft bgs	42 ft bgs	6 ft bgs	42 ft bgs	G2245-06
Lab Sample Number			G2245-09A	G2245-08A	G2245-10A	G2245-11A	G2306-02	G2306-03	G2306-04	G2306-06	G2306-07	G2306-05	G2306-08	12/2/2008
Sampling Date			12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	Soil
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	mg/kg
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
COMPOUND	***CAS#***													
Semivolatile Organic Compounds (EPA 8270) (mg/kg)														
1,2,4-Trichlorobenzene	120-82-1	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
1,2-Dichlorobenzene	95-50-1	1.10	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
1,3-Dichlorobenzene	541-73-1	2.40	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
1,4-Dichlorobenzene	106-46-7	1.80	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2,4,5-Trichlorophenol	95-95-4	NL	0.76 U	0.76 U	0.74 U	0.78 U	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
2,4,6-Trichlorophenol	88-06-2	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2,4-Dichlorophenol	120-83-2	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2,4-Dimethylphenol	105-67-9	NL	0.38 UJ	0.37 UJ	0.37 UJ	0.39 UJ	0.44 UJ	0.38 UJ	0.39 UJ	0.4 UJ	0.39 UJ	0.44 UJ	0.39 UJ	0.01 U
2,4-Dinitrophenol	51-28-5	NL	0.76 U	0.76 U	0.74 U	0.78 U	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
2,4-Dinitrotoluene	121-14-2	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2,6-Dinitrotoluene	606-20-2	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2-Chloronaphthalene	91-58-7	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2-Chlorophenol	95-57-8	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2-Methylnaphthalene	91-57-6	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2-Methylphenol	95-48-7	0.33	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
2-Nitroaniline	88-74-4	NL	0.76 U	0.76 U	0.74 U	0.78 U	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
2-Nitrophenol	88-75-5	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
3,3'-Dichlorobenzidine	91-94-1	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
3-Nitroaniline	99-09-2	NL	0.76 U	0.76 U	0.74 U	0.78 U	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	0.76 U	0.76 U	0.74 U	0.78 U	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
4-Bromophenyl-phenylether	101-55-3	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
4-Chloro-3-methylphenol	59-50-7	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
4-Chloroaniline	106-47-8	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
4-Chlorophenyl-phenylether	7005-72-3	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
4-Methylphenol	106-44-5	0.33	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
4-Nitroaniline	100-01-6	NL	0.76 UJ	0.76 UJ	0.74 UJ	0.78 UJ	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
4-Nitrophenol	100-02-7	NL	0.76 U	0.76 U	0.74 U	0.78 U	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
Acenaphthene	83-32-9	20.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Acenaphthylene	208-96-8	100.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Anthracene	120-12-7	100.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Benzo(a)anthracene	56-55-3	1.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Benzo(a)pyrene	50-32-8	1.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Benzo(b)fluoranthene	205-99-2	1.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Benzo(g,h,i)perylene	191-24-2	100.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Benzo(k)fluoranthene	207-08-9	0.80	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Bis(2-chloroethoxy)methane	111-91-1	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Bis(2-chloroethyl)ether	111-44-4	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Bis(2-ethylhexyl)phthalate	117-81-7	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Butylbenzylphthalate	85-68-7	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Carbazole	86-74-8	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Chrysene	218-01-9	1.00	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Di-n-butylphthalate	84-74-2	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Di-n-octylphthalate	117-84-0	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Dibenzofuran	132-64-9	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Diethylphthalate	84-66-2	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Dimethylphthalate	131-11-3	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Fluoranthene	206-44-0	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Fluorene	86-73-7	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Hexachlorobenzene	118-74-1	0.33	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Hexachlorobutadiene	87-68-3	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Hexachlorocyclopentadiene	77-47-4	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Hexachloroethane	67-72-1	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Indeno(1,2,3-cd)pyrene	193-39-5	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Isophorone	78-59-1	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
N-Nitroso-di-n-propylamine	621-64-7	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
N-Nitrosodiphenylamine	86-30-6	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Naphthalene	91-20-3	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Nitrobenzene	98-95-3	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Pentachlorophenol	87-86-5	NL	0.76 U	0.76 U	0.74 U	0.78 U	0.9 U	0.78 U	0.8 U	0.81 U	0.79 U	0.9 U	0.78 U	0.01 U
Phenanthrene	85-01-8	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Phenol	108-95-2	NL	0.11 J	0.089 J	0.095 J	0.14 J	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
Pyrene	129-00-0	NL	0.38 U	0.37 U	0.37 U	0.39 U	0.44 U	0.38 U	0.39 U	0.4 U	0.39 U	0.44 U	0.39 U	0.01 U
TICs			1.38 J	2.06 J	1.53 J	1.5 J	1.1 J	0.77 BN	1.59 J	0.61 J	1.07 BN	1.18 BN	0.84 BN	ND

J - Estimated

UJ - Not detected, estimated reporting limit

U - Compound not detected at reporting limit

BNJ - Compound tentatively identified at estimated concentration. Compo

mg/kg - milligram per kilogram

Bold - compound exceeds NYSDEC recommended soil cleanup objectiv

Table 4-3
Soil Sampling Analytical Results - Metals
40 & 50 Roselle Street
Mineola, New York

Sample ID		NYSDEC Part 375 Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (mg/kg)	MW-5S-6	MW-5S-17	MW-5S-26	MW-5S-36	MW-5S-41	SOIL-DUP1	MW-6S-5	MW-6S-16	MW-6S-27	MW-6S-32	ROS-FD-S-01
Sample Location			MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	Floor Drain
Sample Depth			6 ft bgs	17 ft bgs	26 ft bgs	36 ft bgs	41 ft bgs	41 ft bgs	5 ft bgs	16 ft bgs	27 ft bgs	32 ft bgs	Floor Drain
Lab Sample Number			G2245-12	G2245-13	G2245-14	G2245-15	G2245-16	G2245-17	G2245-09	G2245-08	G2245-10	G2245-11	G2306-01B
Sampling Date			12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/8/2008
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
COMPOUND	**CAS#**												
Metals (ILM04.1)													
Mercury	7439-97-6	0.18	0.01 U	0.0087 U	0.0082 U	0.0098 U	0.0098 U	0.009 U	0.011 U	0.011 U	0.011 U	0.011 U	0.0086 J
Aluminum	7429-90-5	NL	5680	2360	1880	1300	1210	1260	2590	2240	1960	1730	2730
Antimony	7440-36-0	NL	0.35 U	0.43 U	0.42 U	0.87 U	0.42 U	0.41 U	0.47 U	0.33 U	0.37 U	0.45 U	0.41 UJ
Arsenic	7440-38-2	13	2.9 J	1.5 J	0.85 J	1 J	1 J	1.1 J	1.2 J	1.3 J	4.5 J	1.7 J	1.2 U
Barium	7440-39-3	350	17 J	16.4 J	20.3 J	4.6 J	5.8 J	9.2 J	15.9 J	17 J	9.1 J	4.8 J	14.7 J
Beryllium	7440-41-7	7.2	0.3 J	0.073 J	0.062 J	0.063 J	0.06 J	0.041 J	0.084 J	0.1 J	0.081 J	0.089 J	0.13 J
Cadmium	7440-43-9	2.5	0.19 U	0.036 U	0.1 U	0.18 U	0.089 U	0.12 U	0.037 U	0.048 U	0.038 U	0.0337 U	0.32 J
Calcium	7440-70-2	NL	3810	964 J	203 J	350 J	154 U	179 U	550 J	3900	278 J	259 J	437 J
Chromium	7440-47-3	NL	30.6	14.7	3.2	3	5.8	4.2	8.5	10.3	6.8	24	6.9 J
Cobalt	7440-48-4	NL	4 J	3.2 J	1.3 U	0.8 U	0.58 U	0.66 U	2.1 J	2.5 J	5.1 J	1.7 U	8.3 J
Copper	7440-50-8	50	19.6 J	37.7 J	6.4 U	5.4 U	5.2 U	5.2 U	8.3 U	12.7 U	11.3 U	7.2 U	**355**
Iron	7439-89-6	NL	21000 J	7720 J	3970 J	3580 J	3190 J	2830 J	7260 J	6360 J	7080 J	6220 J	6580
Lead	7439-92-1	63	6.4	4.3	2.2	1.7	1.6	1.3	4	5.4	2.5	1.9	21.3
Magnesium	7439-95-4	NL	2660	1030	598 J	523 J	364 J	260 J	922 J	2470	750 J	862 J	1270
Manganese	7439-96-5	1600	226 J	101 J	58.6 J	28.2 J	23.5 J	23.4 J	76.6 J	104 J	90.3 J	64.7 J	169
Nickel	7440-02-0	30	12	7.1 J	5.4 J	2.5 J	2.8 J	3.5 J	6.2 J	6.3 J	7.2 J	6.1 J	10.3
Selenium	7782-49-2	3.9	1.2	0.31	0.65	0.2	0.55	0.54	0.17	0.61 U	0.89	0.48	0.14 U
Silver	7440-22-4	2	0.072 U	0.09 U	0.087 U	0.23 U	0.089 U	0.086 U	0.098 U	0.069 U	0.077 U	0.092 U	0.19 U
Thallium	7440-28-0	NL	0.53 U	0.66 U	0.2	0.6 U	0.22	0.63 U	0.35	0.51 U	0.23	0.68 U	0.63 U
Vanadium	7440-62-2	NL	25.4 J	8 J	3.4 J	3.7 J	3.7 J	3.1 J	6.1 J	7.6 J	4.9 J	5.8 J	5.8 J
Zinc	7440-66-6	109	21.9 J	20.5 J	13.4 J	10.2 J	7 U	8.4 U	14 J	25.7 J	22.6 J	15.9 J	68
Potassium	7440-09-7	NL	572 J	422 J	456 J	254 J	168 J	181 J	611 J	473 J	364 J	208 J	454 J
Sodium	7440-23-5	NL	237 J	71.8 J	33.4 U	23.4 U	30 U	29.2 U	48.7 U	55 U	29.6 U	37.3 U	51.8 J

NL - Not listed
J - Estimated
UJ - Not detected, estimated reporting limit
U - Compound not detected at reporting limit
mg/kg - milligram per kilogram
Bold - compound exceeds NYSDEC recommended soil cleanup objectives.

CDM

Table 4-4
Groundwater Profile Data
40 & 50 Roselle Street
Mineola, New York

Sample ID		New York State Standards (S) and Guidance (G) Values for Class GA Groundwater (µg/L)	MW-5W-73	GW-DUP1	MW-6W-45	MW-6W-55	MW-6W-65	MW-6W-75	MW-5W-53	GW-DUP2	MW-5W-63	MW-8-45	MW-8-52	MW-8-62	MW-8-72	MW-7W-45	GW-DUP3	MW-7W-55
Sample Location			MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	MW-5	MW-5	MW-5	MW-8	MW-8	MW-8	MW-8	MW-7	MW-7	MW-7
Sample Depth			73 bgs	73 bgs	45 bgs	55 bgs	65 bgs	75 bgs	53 bgs	53 bgs	63 bgs	45 bgs	52 bgs	62 bgs	72 bgs	45 bgs	45 bgs	55 bgs
Lab Sample Number			G2283-06A	G2283-07A	G2283-04A	G2283-03A	G2283-02A	G2283-01A	G2305-02A	G2305-03A	G2305-01A	G2305-08A	G2305-07A	G2305-06A	G2305-05A	G2329-01A	G2329-02A	G2329-05A
Sampling Date			12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/12/2008	12/12/2008	12/12/2008
Matrix			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
COMPOUND	***CAS#***																	
Volatile Organic Compounds (EPA 8260)																		
1,1,1,2-Tetrachloroethane	630-20-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-Trichloroethane	71-55-6	5	5.00 U	5.00 U	2.30 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-Trichloroethane	79-00-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethane	75-34-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethene	75-35-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloropropene	563-58-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichlorobenzene	87-61-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichloropropane	96-18-4	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	120-82-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trimethylbenzene	95-63-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	106-93-4	0.0006	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	95-50-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethane	107-06-2	0.6	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloropropane	78-87-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3,5-Trimethylbenzene	108-67-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	541-73-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichloropropane	142-28-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	106-46-7	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,2-Dichloropropane	594-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Butanone	78-93-3	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	95-49-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Hexanone	591-78-6	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	106-43-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Isopropyltoluene	99-87-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Methyl-2-pentanone	108-10-1	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	67-64-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	7.20
Benzene	71-43-2	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromobenzene	108-86-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromochloromethane	74-97-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromodichloromethane	75-27-4	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromoform	75-25-2	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane	74-83-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	75-15-0	60	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon tetrachloride	56-23-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chlorobenzene	108-90-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane	75-00-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroform	67-66-3	7	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloromethane	74-87-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	156-59-2	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromochloromethane	124-48-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromomethane	74-95-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dichlorodifluoromethane	75-71-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	100-41-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	87-68-3	0.5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Iodomethane	74-88-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	98-82-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
m,p-Xylene	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether	1634-04-4	10	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methylene chloride	75-09-2	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Butylbenzene	104-51-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Propylbenzene	103-65-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	91-20-3	10	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
o-Xylene	95-47-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
sec-Butylbenzene	135-98-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Styrene	100-42-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	98-06-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethene	127-18-4	5	1.30 J	5.00 U	**230.00**	1.10 J	5.00 U	**7.30**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Toluene	108-88-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,2-Dichloroethene	156-60-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethene	79-01-6	5	2.10 J	5.00 U	**490.00**	2.20 J	1.00 J	**11.00**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichlorofluoromethane	75-69-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl acetate	108-05-4	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl chloride	75-01-4	2	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Xylene (Total)	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Notes:
Bold - compound exceeds NYSDEC Class GA Guidance or Standard
NA- Not analyzed
NL - Not listed
E - Exceeds calibration range
D - Dilution concentration
J - Estimated concentration; concentration is above the detection limit but below the reporting limit
U - Compound not detected at reporting limit.

Table 4-4
Groundwater Profile Data
40 & 50 Roselle Street
Mineola, New York

Sample ID		New York State Standards (S) and Guidance (G) Values for Class GA Groundwater (µg/L)	MW-7W-65	MW-7W-75	MW-9W-45	MW-9W-55	GW-DUP4	MW-9W-65	MW-9W-75	MW-10-55	MW-10-65	MW-10-75	MW-11-45	MW-11-55	MW-11-65	MW-11-75	MW-12-45	GW-DUP5
Sample Location			MW-7	MW-7	MW-9	MW-9	MW-9	MW-9	MW-9	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12
Sample Depth			65 bgs	75 bgs	45 bgs	55 bgs	55 bgs	65 bgs	75 bgs	55 bgs	65 bgs	75 bgs	45 bgs	55 bgs	65 bgs	75 bgs	45 bgs	45 bgs
Lab Sample Number			G2329-04A	G2329-03A	G2352-06A	G2352-03A	G2352-05A	G2352-02A	G2352-01A	H0011-13A	H0011-12A	H0011-11A	H0011-04A	H0011-03A	H0011-02A	H0011-01A	H0011-08A	H0011-09A
Sampling Date			12/12/2008	12/12/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	1/7/2009	1/5/2009	1/7/2009	1/8/2009	1/7/2009	1/7/2009	1/7/2009	1/7/2009	1/7/2009
Matrix			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
COMPOUND	***CAS#***																	
Volatile Organic Compounds (EPA 8260)																		
1,1,1,2-Tetrachloroethane	630-20-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-Trichloroethane	71-55-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.40 J	5.00 U	5.00 U	5.00 U	2.00 J	5.00 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-Trichloroethane	79-00-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethane	75-34-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethene	75-35-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloropropene	563-58-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichlorobenzene	87-61-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichloropropane	96-18-4	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	120-82-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trimethylbenzene	95-63-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.20 J	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	106-93-4	0.0006	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	95-50-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethane	107-06-2	0.6	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloropropane	78-87-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3,5-Trimethylbenzene	108-67-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	541-73-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichloropropane	142-28-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	106-46-7	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,2-Dichloropropane	594-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Butanone	78-93-3	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	95-49-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Hexanone	591-78-6	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	106-43-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Isopropyltoluene	99-87-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Methyl-2-pentanone	108-10-1	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	67-64-1	50	18.00	5.00 U	17.00	5.00 U	20.00	35.00	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene	71-43-2	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromobenzene	108-86-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromochloromethane	74-97-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromodichloromethane	75-27-4	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromoform	75-25-2	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane	74-83-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	75-15-0	60	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon tetrachloride	56-23-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chlorobenzene	108-90-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane	75-00-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroform	67-66-3	7	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloromethane	74-87-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	156-59-2	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**27.00**	1.20 J	1.00 J	5.00 U	5.00 U	5.00 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromochloromethane	124-48-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromomethane	74-95-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dichlorodifluoromethane	75-71-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	100-41-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	87-68-3	0.5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Iodomethane	74-88-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	98-82-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
m,p-Xylene	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether	1634-04-4	10	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methylene chloride	75-09-2	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Butylbenzene	104-51-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	2.00 J	**13.00**	5.00 U	5.00 U	5.00 U	5.00 U
n-Propylbenzene	103-65-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	91-20-3	10	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**120.00**	**270.00** E	1.50 J	5.00 U	1.90 J	7.10
o-Xylene	95-47-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
sec-Butylbenzene	135-98-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.20 J	4.70 J	5.00 U	5.00 U	5.00 U	5.00 U
Styrene	100-42-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	98-06-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethene	127-18-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**6.80**	5.00 U	5.00 U	5.00 U	**15.00**	5.00 U
Toluene	108-88-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,2-Dichloroethene	156-60-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethene	79-01-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.10 BJ	1.10 BJ	5.00 U	5.00 U	5.00 U	**310.00**	**17.00**	5.00 U	5.00 U	**74.00**	4.50 J
Trichlorofluoromethane	75-69-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl acetate	108-05-4	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl chloride	75-01-4	2	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Xylene (Total)	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Notes:
Bold - compound exceeds NYSDEC Class GA Guidance or Standard
NA- Not analyzed
NL - Not listed
E - Exceeds calibration range
D - Dilution concentration
J - Estimated concentration; concentration is above the detection limit bu
U - Compound not detected at reporting limit.

Table 4-4
Groundwater Profile Data
40 & 50 Roselle Street
Mineola, New York

Sample ID		New York State Standards (S) and Guidance (G) Values for Class GA Groundwater (µg/L)	MW-12-55	MW-12-65	MW-12-75	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Location			MW-12	MW-12	MW-12					
Sample Depth			55 bgs	65 bgs	75 bgs					
Lab Sample Number			H0011-07A	H0011-06A	H0011-05A	G2283-05A	G2305-04A	G2329-06A	G2352-04A	H0011-10A
Sampling Date			1/7/2009	1/7/2009	1/7/2009	12/8/2008	12/10/2008	12/12/2008	12/16/2008	1/7/2009
Matrix			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
COMPOUND	***CAS#***									
Volatile Organic Compounds (EPA 8260)										
1,1,1,2-Tetrachloroethane	630-20-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-Trichloroethane	71-55-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-Trichloroethane	79-00-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethane	75-34-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethene	75-35-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloropropene	563-58-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichlorobenzene	87-61-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichloropropane	96-18-4	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	120-82-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trimethylbenzene	95-63-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	106-93-4	0.0006	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	95-50-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethane	107-06-2	0.6	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloropropane	78-87-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3,5-Trimethylbenzene	108-67-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	541-73-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichloropropane	142-28-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	106-46-7	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,2-Dichloropropane	594-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Butanone	78-93-3	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	95-49-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Hexanone	591-78-6	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	106-43-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Isopropyltoluene	99-87-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Methyl-2-pentanone	108-10-1	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	67-64-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene	71-43-2	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromobenzene	108-86-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromochloromethane	74-97-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromodichloromethane	75-27-4	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromoform	75-25-2	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane	74-83-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	75-15-0	60	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon tetrachloride	56-23-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chlorobenzene	108-90-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane	75-00-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroform	67-66-3	7	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloromethane	74-87-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	156-59-2	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromochloromethane	124-48-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromomethane	74-95-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dichlorodifluoromethane	75-71-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	100-41-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	87-68-3	0.5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Iodomethane	74-88-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	98-82-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
m,p-Xylene	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether	1634-04-4	10	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methylene chloride	75-09-2	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Butylbenzene	104-51-8	5	2.10 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Propylbenzene	103-65-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	91-20-3	10	**22.00**	5.00 U	2.30 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
o-Xylene	95-47-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
sec-Butylbenzene	135-98-8	5	1.50 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Styrene	100-42-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	98-06-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethene	127-18-4	5	1.30 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Toluene	108-88-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,2-Dichloroethene	156-60-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethene	79-01-6	5	**6.10**	5.00 U	1.10 J	5.00 U	5.00 U	5.00 U	1.4	5.00 U
Trichlorofluoromethane	75-69-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl acetate	108-05-4	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl chloride	75-01-4	2	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Xylene (Total)	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Notes:
Bold - compound exceeds NYSDEC Class GA Guidance or Standard
NA- Not analyzed
NL - Not listed
E - Exceeds calibration range
D - Dilution concentration
J - Estimated concentration; concentration is above the detection limit bul
U - Compound not detected at reporting limit.

Table 4-5
Groundwater Sampling Results - VOCs
40 & 50 Roselle Street
Mineola, Nassau County, New York

Sample ID		New York State Standards (S) and Guidance (G) Values for Class GA	ROS-MW-1	ROS-MW-2	ROS-MW-3	ROS-MW-33	ROS-MW-4	ROS-MW-05	ROS-MW-06	ROS-MW-07
Sample Location			MW-1	MW-2	MW-3	Duplicate MW-3	MW-4	MW-05	MW-06	MW-07
Lab Sample Number			G2125-01A	G2125-02A	G2125-03A	G2125-05A	G2125-04A	H0156-03A	H0156-04A	H0156-11A
Sampling Date			11/13/2008	11/13/2008	11/13/2008	11/13/2008	11/13/2008	2/2/2009	2/2/2009	2/3/2009
Matrix			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
COMPOUND	***CAS#***									
Volatile Organic Compounds (EPA 8260)										
1,1,1,2-Tetrachloroethane	630-20-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-Trichloroethane	71-55-6	5	5.00 U	**7.80**	**41.00**	**44.00**	2.00 J	5.00 U	5.00 U	5.00 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-Trichloroethane	79-00-5	1	5.00 U	5.00 U	**2.30** J	**2.30** J	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethane	75-34-3	5	5.00 U	5.00 U	1.90 J	2.10 J	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethene	75-35-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloropropene	563-58-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichlorobenzene	87-61-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichloropropane	96-18-4	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	120-82-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trimethylbenzene	95-63-6	5	5.00 U	**29.00**	**48.00**	**53.00**	**18.00**	5.00 U	5.00 U	5.00 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	106-93-4	0.0006	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	95-50-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethane	107-06-2	0.6	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloropropane	78-87-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3,5-Trimethylbenzene	108-67-8	5	5.00 U	**13.00**	**7.90**	**8.90**	3.20 J	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	541-73-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichloropropane	142-28-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	106-46-7	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,2-Dichloropropane	594-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Butanone	78-93-3	50	5.00 U	5.50	5.00 U	2.70 J	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	95-49-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Hexanone	591-78-6	50	5.00 U	4.50 J	3.00 J	3.30 J	2.10 J	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	106-43-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Isopropyltoluene	99-87-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Methyl-2-pentanone	108-10-1	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	67-64-1	50	5.00 U	19.00	6.60	8.50	5.10	5.00 U	5.00 U	5.00 U
Benzene	71-43-2	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromobenzene	108-86-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromochloromethane	74-97-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromodichloromethane	75-27-4	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromoform	75-25-2	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane	74-83-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	75-15-0	60	5.00 U	4.10 J	5.00 U	5.00 U	2.30 J	5.00 U	5.00 U	5.00 U
Carbon tetrachloride	56-23-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chlorobenzene	108-90-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane	75-00-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroform	67-66-3	7	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloromethane	74-87-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	156-59-2	5	5.00 U	5.00 U	5.00 U	5.00 U	**17.00**	5.00 U	5.00 U	5.00 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromochloromethane	124-48-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromomethane	74-95-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dichlorodifluoromethane	75-71-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	100-41-4	5	5.00 U	5.00 U	1.20 J	1.20 J	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	87-68-3	0.5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Iodomethane	74-88-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	98-82-8	5	5.00 U	3.20 J	2.90 J	3.20 J	1.60 J	5.00 U	5.00 U	5.00 U
m,p-Xylene	1330-20-7	5	5.00 U	4.60 J	4.10 J	4.60 J	1.20 J	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether	1634-04-4	10	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methylene chloride	75-09-2	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Butylbenzene	104-51-8	5	5.00 U	**130.00**	**100.00**	**120.00**	**92.00**	5.00 U	5.00 U	5.00 U
n-Propylbenzene	103-65-1	5	5.00 U	**8.50**	3.20 J	3.30 J	2.70 J	5.00 U	5.00 U	5.00 U
Naphthalene	91-20-3	10	5.00 U	**3200.00**	**1200.00**	**1300.00**	**1000.00**	5.00 U	5.00 U	5.00 U
o-Xylene	95-47-6	5	5.00 U	**5.20**	**11.00**	**12.00**	1.40 J	5.00 U	5.00 U	5.00 U
sec-Butylbenzene	135-98-8	5	5.00 U	**42.00**	**78.00**	**90.00**	**66.00**	5.00 U	5.00 U	5.00 U
Styrene	100-42-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	98-06-6	5	5.00 U	5.00 U	2.40 J	2.60 J	1.20 J	5.00 U	5.00 U	5.00 U
Tetrachloroethene	127-18-4	5	5.00 U	**21.00**	**13.00**	**14.00**	**8.10**	5.00 U	**17.00**	5.00 U
Toluene	108-88-3	5	5.00 U	1.30 J	2.80 J	3.20 J	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,2-Dichloroethene	156-60-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethene	79-01-6	5	5.00 U	**1000.00**	**430.00**	**470.00**	**190.00**	5.00 U	**36.00**	5.00 U
Trichlorofluoromethane	75-69-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl acetate	108-05-4	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl chloride	75-01-4	2	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Xylene (Total)	1330-20-7	5	5.00 U	**9.90**	**15.00**	**17.00**	2.60 J	5.00 U	5.00 U	5.00 U

Notes:
NL - Not listed
J - Estimated
UJ - Not detected, estimated reporting limit
U - compound not detected at reporting limit
µg/L - micrograms per liter
Bold - compound exceeds NYSDEC Class GA Guidance or Standard

Table 4-5
Groundwater Sampling Results - VOCs
40 & 50 Roselle Street
Mineola, Nassau County, New York

Sample ID		New York State Standards (S) and Guidance (G) Values for Class GA	ROS-MW-08	ROS-MW-09	ROS-MW-10	ROS-MW-101	ROS-MW-11	ROS-MW-12	TB-111308	FB-111308	FB-020309	TB-020209
Sample Location			MW-08	MW-09	MW-10	Duplicate MW-10	MW-11	MW-12	Trip Blank	Field Blank	Field Blank	
Lab Sample Number			H0156-10A	H0156-09A	H0156-01A	H0156-02A	H0156-07A	H0156-08A	G2125-06A	G2125-07A	H0156-06A	H0156-05A
Sampling Date			2/3/2009	2/3/2009	2/2/2009	2/2/2009	2/3/2009	2/3/2009	11/21/2008	11/22/2008	2/4/2009	2/4/2009
Matrix			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
COMPOUND	***CAS#***											
Volatile Organic Compounds (EPA 8260)												
1,1,1,2-Tetrachloroethane	630-20-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-Trichloroethane	71-55-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	2.50 J	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-Trichloroethane	79-00-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethane	75-34-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethene	75-35-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloropropene	563-58-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichlorobenzene	87-61-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,3-Trichloropropane	96-18-4	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trichlorobenzene	120-82-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2,4-Trimethylbenzene	95-63-6	5	5.00 U	5.00 U	5.00 U	5.00 U	**16.00** J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	106-93-4	0.0006	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	95-50-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethane	107-06-2	0.6	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloropropane	78-87-5	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3,5-Trimethylbenzene	108-67-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	541-73-1	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichloropropane	142-28-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	106-46-7	3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,2-Dichloropropane	594-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Butanone	78-93-3	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	95-49-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Hexanone	591-78-6	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	106-43-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Isopropyltoluene	99-87-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Methyl-2-pentanone	108-10-1	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	67-64-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene	71-43-2	1	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromobenzene	108-86-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromochloromethane	74-97-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromodichloromethane	75-27-4	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromoform	75-25-2	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane	74-83-9	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	75-15-0	60	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon tetrachloride	56-23-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chlorobenzene	108-90-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane	75-00-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroform	67-66-3	7	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloromethane	74-87-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	156-59-2	5	5.00 U	5.00 U	5.00 U	5.00 U	**890.00**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromochloromethane	124-48-1	50	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromomethane	74-95-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dichlorodifluoromethane	75-71-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	100-41-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	87-68-3	0.5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Iodomethane	74-88-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	98-82-8	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
m,p-Xylene	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether	1634-04-4	10	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methylene chloride	75-09-2	5	5.00 U	5.00 U	5.00 U	5.00 U	80.00 U	5.00 U	5.00 U	5.00 U	2.6	5.00 U
n-Butylbenzene	104-51-8	5	5.00 U	5.00 U	5.00 U	5.00 U	**84.00**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Propylbenzene	103-65-1	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	91-20-3	10	5.00 U	1.20 J	5.00 U	5.00 U	**2100.00**	5.00 U	5.00 U	5.8	5.00 U	5.00 U
o-Xylene	95-47-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
sec-Butylbenzene	135-98-8	5	5.00 U	5.00 U	5.00 U	5.00 U	**17.00** J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Styrene	100-42-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
tert-Butylbenzene	98-06-6	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethene	127-18-4	5	5.00 U	5.00 U	5.00 U	5.00 U	**49.00** J	**28.00**	5.00 U	5.00 U	5.00 U	5.00 U
Toluene	108-88-3	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,2-Dichloroethene	156-60-5	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethene	79-01-6	5	5.00 U	5.00 U	5.00 U	5.00 U	**360.00**	**110.00**	5.00 U	5.00 U	5.00 U	5.00 U
Trichlorofluoromethane	75-69-4	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl acetate	108-05-4	NL	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl chloride	75-01-4	2	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Xylene (Total)	1330-20-7	5	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Notes:
NL - Not listed
J - Estimated
UJ - Not detected, estimated reporting limit
U - compound not detected at reporting limit
µg/L - micrograms per liter
Bold - compound exceeds NYSDEC Class GA Guidance or Standard

Table 4-6
Groundwater Sampling Results - Metals
40 & 50 Roselle Street
Mineola, New York

Sample ID		New York State Standards (S) and Guidance (G) Values for Class GA Groundwater (µg/L)	ROS-MW-3	ROS-MW-33	ROS-MW-4	ROS-MW-05	ROS-MW-06	ROS-MW-08	ROS-MW-08DUP	ROS-MW-10	ROS-MW-101	FB-111308	FB-020309
Sample Location			MW-3	Duplicate MW-3	MW-4	MW-05	MW-06	MW-08	Duplicate MW-08	MW-10	Duplicate MW-10	Field Blank	Field Blank
Lab Sample Number			G2125-03B	G2125-05B	G2125-04B	H0156-03A	H0156-04A	H0156-10A	H0156-10BDUP	H0156-01A	H0156-02A	G2125-07A	H0156-06A
Sampling Date			11/13/2008	11/13/2008	11/13/2008	2/2/2009	2/2/2009	2/3/2009	2/3/2009	2/2/2009	2/2/2009	11/22/2008	2/3/2009
Matrix			Water	Water	Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
COMPOUND	***CAS#***												
Aluminum	7429-90-5	NL	125.00 J	121.00 J	270.00	816.00	108.00 U	32.70 U	27.54 B	172.00 U	149.00 U	17.70 U	87.20 J
Antimony	7440-36-0	3	2.20 U	2.20 U	2.20 U	5.00 U	5.00 U	3.60 U	5.00 U	3.10 U	2.60 U	4.00 J	3.50 J
Arsenic	7440-38-2	25	4.70 J	5.00 J	3.20 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	2.80 U	3.20 U
Barium	7440-39-3	1000	16.50 U	14.90 U	17.30 U	18.60 J	9.60 U	15.00 U	14.09 B	12.90 U	11.60 U	2.60 J	3.50 J
Beryllium	7440-41-7	3	0.07 U	0.05 U	0.09 U	0.07 U	0.07 U	5.00 U	5.00 U	0.07 U	5.00 U	0.06 J	0.07 J
Cadmium	7440-43-9	5	0.24 J	0.18 U	0.18 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	0.18 U	0.21 U
Calcium	7440-70-2	NL	3920.00 J	3990.00 J	4060.00 J	2000.00 J	3680.00 J	4300.00 J	4154.43 B	1160.00 J	842.00 J	92.50 J	130.00 J
Chromium	7440-47-3	50	9.10 J	7.60 J	5.40 J	4.80 J	10.10	0.64 U	0.64 B	4.00 J	4.10 J	0.43 J	0.67 J
Cobalt	7440-48-4	NL	2.70 J	2.50 J	0.45 U	2.10 J	3.00 J	5.00 U	5.00 U	0.83 J	0.82 J	0.36 J	0.29 U
Copper	7440-50-8	200	4.50 U	2.50 U	3.60 U	6.20 U	19.50 J	1.20 U	0.97 B	4.30 U	2.80 U	3.30 J	2.60 J
Iron	7439-89-6	300	**24200.00**	**24100.00**	**6090.00**	**2050.00**	324.00 U	28.20 U	28.88 B	320.00 U	266.00 U	47.80 J	152.00
Lead	7439-92-1	25	3.20 U	1.30 U	1.20 U	4.60	5.80	5.00 U	5.00 U	5.10	3.40	1.30 J	1.90 U
Magnesium	7439-95-4	35000	1010.00 J	1000.00 J	1260.00 J	505.00 J	905.00 J	872.00 J	853.02 B	242.00 J	224.00 J	14.20 J	31.00 J
Manganese	7439-96-5	300	**348.00**	**342.00**	37.80 U	144.00	20.10 U	11.80 U	11.38 B	36.70 U	38.20 U	32.80	7.60 J
Mercury	7439-97-6	0.7	0.01 U	0.01 U	0.10 U	0.01 U	5.00 U	5.00 U	NA	0.11 U	0.03 U	0.01 U	0.05 J
Nickel	7440-02-0	100	6.00 J	6.00 J	3.20 U	4.00 J	6.90 J	0.51 U	5.00 U	3.60 J	3.30 J	0.89 J	0.53 J
Potassium	7440-09-7	NL	1650.00 J	1670.00 J	2360.00 J	881.00 J	992.00 J	1560.00 J	1500.23 B	1120.00 J	1080.00 J	42.00 J	58.00 J
Selenium	7782-49-2	10	4.00 U	4.00 U	6.00	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	4.00 U	4.00 U
Silver	7440-22-4	50	0.45 U	0.45 U	0.92 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	0.54 J	0.50 U
Sodium	7440-23-5	20000	10100.00	10400.00	13600.00	14100.00	2450.00 J	2730.00 J	2657.72 B	9960.00	9720.00	15.00 U	46.00 U
Thallium	7440-28-0	0.5	3.30 U	3.30 U	3.30 U	5.00 U	5.00 U	**5.60** J	5.00 U	5.00 U	5.00 U	3.30 U	3.40 U
Vanadium	7440-62-2	NL	1.20 U	1.10 U	0.40 U	1.50 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	0.35 U	0.39 U
Zinc	7440-66-6	2000	28.20 U	28.60 U	35.10 U	19.50 U	83.20 U	13.70 U	13.12 B	43.60 U	24.90 U	16.10 J	23.50

Notes:
NL - Not listed
J - Estimated
UJ - Not detected, estimated reporting limit
U - compound not detected at reporting limit
µg/L - micrograms per liter
Bold - compound exceeds NYSDEC Class GA Guidance or Standard

Table 4-7
Soil Vapor Sampling Results
40 & 50 Roselle Street
Mineola, New York

		Soil Vapor			Sub-Slab Soil Vapor			Ambient Air
Sample ID		ROS-SV-01 G2318-01A	ROS-SV-02 G2318-02A*	ROS-SV-02D G2318-03A	ROS-SSV-01 G2318-04A	ROS-SSV-02 G2318-05A	ROS-SSV-03 G2318-06A	ROS-OA-1 G2318-07A
Location		40 Roselle St	50 Roselle St	50 Roselle St Duplicate	Somar Insulation 40 Roselle	Vacant 40 Roselle	50 Roselle Street	Ambient Air - SW of 50 Roselle St
Lab ID		SA88715-01	SA88715-02	SA88715-03	SA88715-04	SA88715-05	SA88715-06	SA88715-07
Sample Date		12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008
Media		Air	Air	Air	Air	Air	Air	Air
Unit	CAS#	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Volatile Organic Compounds (EPA TO-15)								
Propene	115-07-1	34.42 U	1.36	0.17 U	0.86 U	0.86 U	34.42 U	1.08
Dichlorodifluoromethane (Freon12)	75-71-8	98.9 U	2.08	1.98	2.47 U	2.47 U	98.9 U	2.23
Chloromethane	74-87-3	41.31 U	1.09	1.16	1.03 U	1.03 U	41.31 U	1.14
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	139.8 U	0.7 U	0.7 U	3.49 U	3.49 U	139.8 U	0.7 U
Vinyl chloride	75-01-4	51.12 U	0.26 U	0.26 U	1.28 U	1.28 U	51.12 U	0.26 U
1,3-Butadiene	106-99-0	44.17 U	0.22 U	0.22 U	1.1 U	1.1 U	44.17 U	0.22 U
Bromomethane	74-83-9	77.63 U	0.39 U	0.39 U	1.94 U	1.94 U	77.63 U	0.39 U
Chloroethane	75-00-3	52.76 U	0.26 U	0.26 U	1.32 U	1.32 U	52.76 U	0.26 U
Acetone	67-64-1	**106.46**	16.52	20.79	**169.67**	**439.61**	47.53 U	10.69
Trichlorofluoromethane (Freon 11)	75-69-4	112.39 U	1.57	1.52	2.81 U	2.81 U	112.39 U	1.57
Ethanol	64-17-5	37.71 U	16.31	22.63	75.8	77.3	37.71 U	9.82
Acrylonitrile	107-13-1	43.35 U	0.22 U	0.22 U	1.08 U	1.08 U	43.35 U	0.22 U
1,1-Dichloroethene	75-35-4	79.35 U	0.4 U	**0.63**	1.98 U	1.98 U	79.35 U	0.4 U
Methylene chloride	75-09-2	69.45 U	0.38	0.35	1.74 U	1.74 U	69.45 U	0.56
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	153.29 U	0.77 U	0.77 U	3.83 U	3.83 U	153.29 U	0.77 U
Carbon disulfide	75-15-0	62.25 U	1.56 U	1.56 U	**6.75**	5.32	62.25 U	1.56 U
trans-1,2-Dichloroethene	156-60-5	79.3 U	0.4 U	0.4 U	1.98 U	1.98 U	79.3 U	0.4 U
1,1-Dichloroethane	75-34-3	80.98 U	0.4 U	**1.9**	2.02 U	2.02 U	80.98 U	0.4 U
Methyl tert-butyl ether	1634-04-4	72.15 U	0.36 U	0.36 U	1.91	1.8 U	72.15 U	0.36 U
Isopropyl alcohol	67-63-0	49.08 U	3.95	5.82	18.43	28.96	49.08 U	7.51
2-Butanone (MEK)	78-93-3	58.98 U	0.29 U	5.87	6.22	9.97	58.98 U	0.29 U
cis-1,2-Dichloroethene	156-59-2	79.3 U	0.4 U	0.4 U	1.98 U	1.98 U	79.3 U	0.4 U
Hexane	110-54-3	70.51 U	3.14	2.36	2.57	1.76 U	70.51 U	1.69
Ethyl acetate	141-78-6	72.07 U	0.94	1.01	1.8 U	1.8 U	72.07 U	0.47
Chloroform	67-66-3	97.34 U	0.49 U	0.49 U	2.43 U	**5.35**	97.34 U	0.49 U
Tetrahydrofuran	109-99-9	58.98 U	0.29 U	0.29 U	2.01	1.47 U	58.98 U	0.29 U
1,2-Dichloroethane	107-06-2	80.98 U	0.4 U	0.4 U	2.02 U	2.02 U	80.98 U	0.4 U
1,1,1-Trichloroethane	71-55-6	272.8	0.55 U	**41.68**	2.73 U	11.62	**488.86**	0.55 U
Benzene	71-43-2	63.8 U	1.85	0.99	2.52	1.6 U	63.8 U	1.12
Carbon tetrachloride	56-23-5	125.81 U	0.63 U	0.63 U	3.15 U	3.15 U	125.81 U	0.63 U
Cyclohexane	110-82-7	68.84 U	1	0.38	1.72 U	1.72 U	68.84 U	0.48
1,2-Dichloropropane	78-87-5	92.43 U	0.46 U	0.46 U	2.31 U	2.31 U	92.43 U	0.46 U
Bromodichloromethane	75-27-4	133.99 U	0.67 U	0.67 U	3.35 U	3.35 U	133.99 U	0.67 U
Trichloroethene	79-01-6	**11715.83**	0.54	**8.76**	4.14	**623** a	**11554.6** a	0.81
1,4-Dioxane	123-91-1	71.98 U	1.8 U	1.8 U	1.8 U	1.8 U	71.98 U	1.8 U
n-Heptane	142-82-5	81.96 U	1.52	1.23	2.05 U	2.05 U	81.96 U	0.98
4-Methyl-2-pentanone (MIBK)	108-10-1	81.96 U	0.41 U	0.57	2.05 U	3.98	81.96 U	0.53
cis-1,3-Dichloropropene	10061-01-5	90.8 U	0.45 U	0.45 U	2.27 U	2.27 U	90.8 U	0.45 U
trans-1,3-Dichloropropene	10061-02-6	90.8 U	0.45 U	0.45 U	2.27 U	2.27 U	90.8 U	0.45 U
1,1,2-Trichloroethane	79-00-5	109.12 U	0.55 U	0.55 U	2.73 U	2.73 U	109.12 U	0.55 U
Toluene	108-88-3	75.26 U	17.69	13.81	18.29	17.23	75.26 U	6.47
2-Hexanone (MBK)	591-78-6	81.96 U	0.41 U	1.15	2.05 U	2.05 U	81.96 U	0.41 U
Dibromochloromethane	124-48-1	170.39 U	0.85 U	0.85 U	4.26 U	4.26 U	170.39 U	0.85 U
1,2-Dibromoethane (EDB)	106-93-4	153.7 U	0.77 U	0.77 U	3.84 U	3.84 U	153.7 U	0.77 U
Tetrachloroethene	127-18-4	**9832.72**	1.36	4.88	13.83	**612**	**18716.07** b	1.02
Chlorobenzene	108-90-7	92.11 U	0.46 U	0.46 U	2.3 U	2.3 U	92.11 U	0.46 U
1,1,1,2-Tetrachloroethane	630-20-6	137.42 U	0.69 U	0.69 U	3.44 U	3.44 U	137.42 U	0.69 U
Ethylbenzene	100-41-4	86.71 U	3.03	2.3	**6.03**	**32.39**	86.71 U	0.78
m,p-Xylene	179601-23-1	173.42 U	10.97	7.85	**25.23**	**121.39**	173.42 U	2.56
Bromoform	75-25-2	206.71 U	1.03 U	1.03 U	5.17 U	5.17 U	206.71 U	1.03 U
Styrene	100-42-5	85.07 U	0.85	0.94	2.13 U	2.13 U	85.07 U	0.43 U
o-Xylene	95-47-6	86.71 U	3.82	2.56	7.54	**27.44**	86.71 U	0.78
1,1,2,2-Tetrachloroethane	79-34-5	137.34 U	0.69 U	0.69 U	3.43 U	3.43 U	137.34 U	0.69 U
Isopropylbenzene	98-82-8	98.32 U	0.49 U	0.49 U	2.46 U	2.46 U	98.32 U	0.49 U
1,3,5-Trimethylbenzene	108-67-8	98.32 U	1.43	0.93	3.05	2.46 U	98.32 U	0.54
4-Ethyltoluene	622-96-8	98.32 U	1.23	1.03	3.15	2.46 U	98.32 U	0.49 U
1,2,4-Trimethylbenzene	95-63-6	98.32 U	4.18	3.59	**11.45**	3.98	98.32 U	0.93
1,3-Dichlorobenzene	541-73-1	120.25 U	0.6 U	0.6 U	3.01 U	3.01 U	120.25 U	0.6 U
Benzyl chloride	100-44-7	103.07 U	0.52 U	0.52 U	2.58 U	2.58 U	103.07 U	0.52 U
1,4-Dichlorobenzene	106-46-7	120.25 U	1.14	2.4	3.01 U	3.01 U	120.25 U	0.6 U
sec-Butylbenzene	135-98-8	109.78 U	0.55 U	0.55 U	2.74 U	2.74 U	109.78 U	0.55 U
4-Isopropyltoluene	99-87-6	107.32 U	1.66 J	1.82 J	11.32	2.68 U	107.32 U	0.54 U
1,2-Dichlorobenzene	95-50-1	120.25 U	0.6 U	0.6 U	3.01 U	3.01 U	120.25 U	0.6 U
n-Butylbenzene	104-51-8	109.78 U	0.55 U	0.55 U	2.74 U	2.74 U	109.78 U	0.55 U
1,2,4-Trichlorobenzene	120-82-1	148.47 U	0.74 U	0.74 U	3.71 U	3.71 U	148.47 U	0.74 U
Hexachlorobutadiene	87-68-3	213.25 U	1.07 U	1.07 U	5.33 U	5.33 U	213.25 U	1.07 U

Notes:
a - Sub-slab vapor concentration exceeds 250 ug/m3; NYSDOH Matrix 1 indicates Mitigation is necessary
b- Sub-slab vapor concentration exceeds 1000 ug/m3; NYSDOH Matrix 2 indicates Mitigation is necessary
Bold - compound exceeds EPA 2001 BASE database for indoor air
U - Compound not detected above the method reporting limit
ug/m3 - microgram per cubic meter
* - Tubing disconnected from canister just prior to sample completion - data compromised.
ROS-SV-2D sample collected over 24 hour period.
J - Estimated

Section 5
Conclusions

Based on the groundwater results observed at monitoring wells MW-2, MW-3, MW-4, MW-6, MW-11 and MW-12, groundwater contamination, consisting of the chlorinated solvent TCE and its degradation products, as well as petroleum compounds, is migrating from the Site, in the area between the 40 and 50 Roselle Street buildings, to the south-southwest across Roselle Street. As mentioned in Section 1.1.2.1, the parking lot between the 40 and 50 Roselle Street buildings is the former location of cesspools CP-4 and CP-5 formerly used in the sanitary system for 40 Roselle Street as well as the location of a former 550-gallon underground fuel oil storage tank and an abandoned gasoline storage tank.

During the February 2009 groundwater sampling event, NAPL was observed at the bottom of monitoring well MW-2, suggesting that a source of the contamination is still present in the vicinity of this well, which is situated between the former location of CP-4 and the former 550-gallon UST. Petroleum contaminants including naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, n-butylbenzene, n-propylbenzene, o-xylene, sec-butylbenzene, and xylene were identified at concentrations above NYSDEC groundwater standards in one or more of the on-site wells located between 40 and 50 Roselle Street (MW-2, MW-3, and MW-4). Concentrations of naphthalene, 1,2,4-trimethylbenzene, n-butylbenzene, and sec-butylbenzene were also above NYSDEC groundwater standards in downgradient off-site well MW-11. The concentrations of the petroleum compounds observed both on and offsite were at the same order of magnitude, suggesting that the source is close to the wells.

Tetrachloroethene concentrations were observed to be higher in offsite wells MW-11 and MW-12 than is being detected on site at monitoring wells MW-2, MW-3, MW-4 or MW-6. The concentrations of TCE are highest in onsite well MW-2. In addition, 1,1,1-trichloroethane concentrations exceed criteria in onsite wells MW-2 and MW-3, and the concentration of 1,1,2-trichlorothane exceeds guidance values in MW-2 only.

Although soil samples collected during this investigation did not identify contamination above RSCOs, the results of the previous investigations at the site identified soil contamination consisting of metals contamination, primarily chromium, silver, and mercury at the bottom of the former cesspools at 40 Roselle Street. Petroleum compounds, primarily naphthalene, and chlorinated volatile organic compounds, specifically PCE and TCE, were identified in the soil in the area of cesspool CP-4 and the former 550-gallon UST adjacent to 50 Roselle Street. The previous investigations in this area indicate that soil is impacted from 12 feet bgs to the water table, as observed in borings at CP-4, GP-01 and GP-01A conducted in 2004. The concentrations of PCE and TCE observed at the same interval (32'-36') at CP-4 and GP-01 are the same order of magnitude.

The highest concentration of naphthalene in the soil was detected just above the water table in boring GP-01A. The highest PCE concentration in the soil was observed in boring GP-01 in the sample collected at 32-36 feet bgs, corresponding to a similar

concentration at CP-04. The highest TCE concentration was identified between 26 and 28 feet bgs in the boring beneath cesspool CP-4; however, a soil sample was not collected at this same interval at GP-01 or GP-01A.

Soil vapor sample results show solvents and petroleum products in the vapor below the 40 and 50 Roselle Street buildings and at the location of SV-01, between the two buildings. Therefore, the contaminants in the groundwater have the potential to impact air quality inside the buildings and in the surrounding area.