SITE INVESTIGATION REPORT

26-28 WHITESBORO STREET SITE
CITY OF UTICA, ONEIDA COUNTY, NEW YORK

(BROWNFIELDS SITE NO. B00063-6)

Prepared for:

CITY OF UTICA
AND
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

Prepared by:

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
SYRACUSE, NEW YORK

DECEMBER 2008

SITE INVESTIGATION REPORT
26-28 WHITESBORO STREET SITE

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1.0 INTRODUCTION

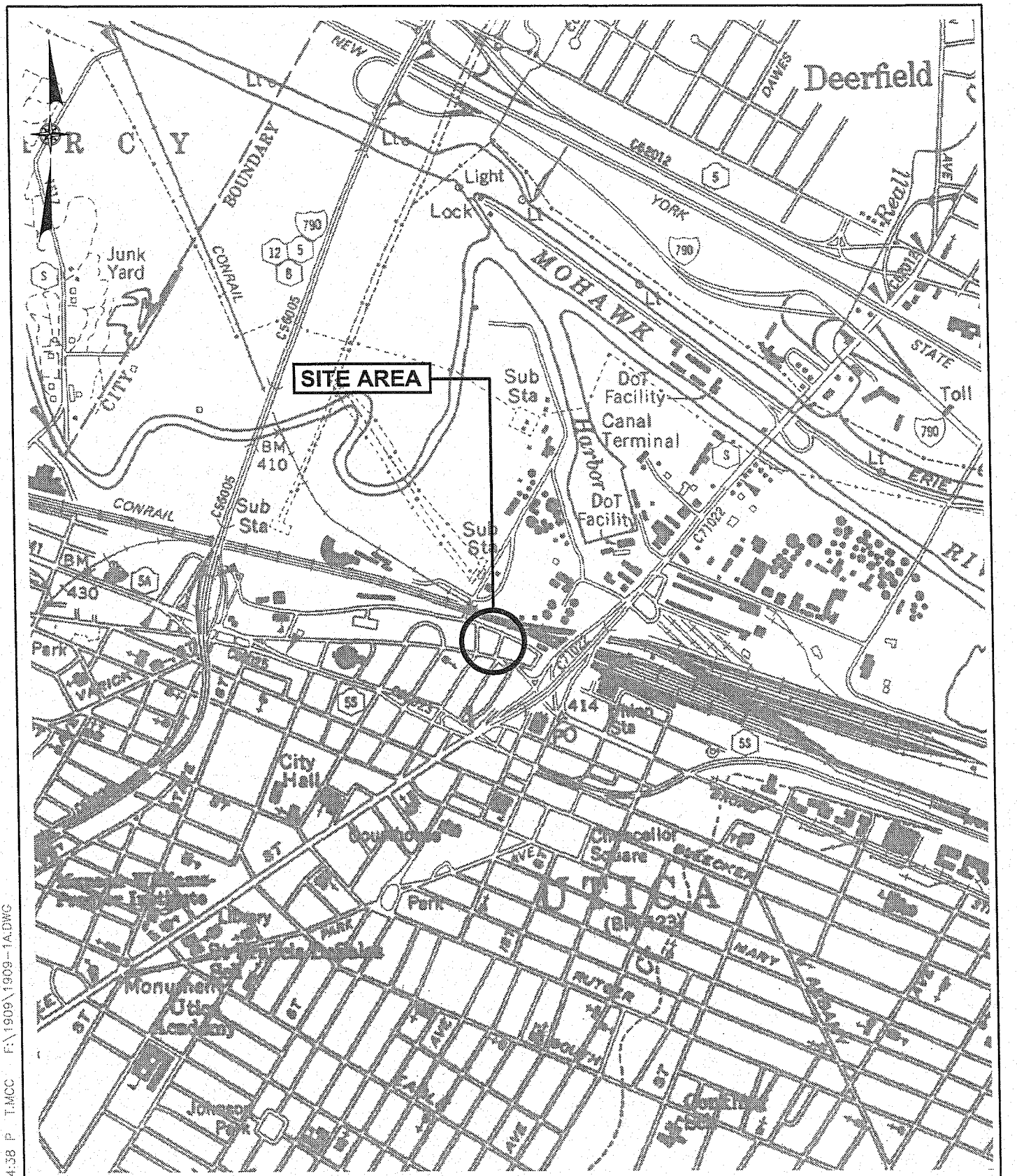
Dvirka and Bartilucci Consulting Engineers (D&B) was contracted by the City of Utica to conduct a Site Investigation (SI) and prepare a Remedial Alternatives Analysis Report (RAAR) under the City's Brownfield Program and the New York State 1996 Clean Water/Clean Air Bond Act Environmental Restoration Projects (ERP) Program. This SI/RAR involved conducting a field investigation and remedial alternatives assessment for the 26-28 Whitesboro Street Site, New York State Department of Environmental Conservation (NYSDEC) Brownfields Site Number B00063-6 (Figure 1-1).

The City of Utica Brownfields Initiative has been undertaken to assess abandoned properties currently owned by the city. In 1999, the city was awarded an $87,000 grant from the New York State ERP Program to conduct pre-remediation activities at the 26-28 Whitesboro Street Site. The objective of Utica's Brownfields Initiative is to cleanup properties and prepare them for redevelopment.

This Site Investigation Report (SIR) presents a description of the field program performed for the 26-28 Whitesboro Street Site. This SIR includes site-specific data and interpretations that define the nature, extent and source of contamination, and the risks associated with the contamination. The RAAR will be prepared subsequent to this report, and will present the development and evaluation of alternatives for remediation of the site.

1.1 Purpose

The purpose of the 26-28 Whitesboro Street SI was to determine the nature, extent and source of contamination, ascertain whether complete routes of exposure to site contaminants exist, and to determine if remediation is necessary to protect human health and the environment. The scope of work was sufficient for the City of Utica to plan redevelopment of the site.



26–28 WHITESBORO STREET SITE
CITY OF UTICA, NEW YORK

SITE LOCATION MAP

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FIGURE 1–1

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The approach to the investigation was to review existing data, fill data gaps, and interpret the existing and new data on a site-wide basis. Using this information, a qualitative human health exposure assessment was performed. Based on the findings of the investigation and exposure assessment, remedial measures will be evaluated in a remedial alternatives analysis and a remedy recommended, if required. The project was divided into four components as follows:

Task 1 – Site Characterization
Task 2 – Human Health Exposure Assessment
Task 3 – Site Investigation Report
Task 4 – Remedial Alternatives Analysis Report

1.2 Report Organization

This report is presented in a format that allows for a logical and ordered progression of the descriptions and findings of the investigation. Section 1.0 discusses the project objectives. Section 2.0 discusses the site background and a review of the site history, including a discussion of previous investigations and a summary of the results. Section 3.0 is a detailed description of the field program undertaken during the site investigation phase of the project. Section 4.0 presents the analytical results, and discusses the nature and extent of the contamination relative to the standards, criteria and guidelines for the various media sampled. This section also discusses data usability. Section 5.0 provides a human health exposure assessment based on the investigation findings. Section 6.0 presents the conclusions of the site investigation. Section 7.0 contains recommendations for the media and areas of the site identified as a significant threat to human health, which require remediation. Identification and evaluation of remedial technologies and alternatives, and a recommended remedial action plan for the site will be provided in the RAAR.

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 Site Description

The 26-28 Whitesboro Street Site is located in the City of Utica, Oneida County, New York. The site is located on the north side of Whitesboro Street and is bounded on the east by Division Street, north by Water Street and west by vacant land (see Figure 2-1). The site is owned by the City of Utica and consists of vacant land. Access to the site is unrestricted.

The 26-28 Whitesboro Street Site is approximately 1.6 acres in size and consists of seven individual tax parcels. The property is relatively flat and contains no buildings or structures. The site is surrounded by a highway, commercial buildings and businesses in downtown Utica. Several sets of railroad tracks are located north of the site. Beyond the railroad tracks, the Mohawk River flows in an easterly direction. South of the site, the ground surface elevation rises gradually into the City of Utica.

2.2 Summary of Background Information

Historic records indicate that as of 1883, the property was listed as part of the Butterfield estate and had been partially developed with brick and stone buildings of unknown use. By 1920, the western portion of the property (Area 1) was occupied by Horrocks Ibbotson and Company, a manufacturer of fishing rods. Use of the site for the manufacturing of fishing rods reportedly continued until 1982. Between 1983 and 1993, the property was owned by various companies, including the Baggs Square Corporation from 1983 to 1991, and the Cajan Realty Corporation from 1991 to 1993. In 1993, the City of Utica acquired the western property in lieu of back taxes. In 1994 the existing building was destroyed by fire and subsequently demolished.

HUDSON RIVER RAILROAD

WATER STREET

(Old Brick Roadway)

HOTEL STREET

(Old Brick Roadway)

DIVISION STREET

WHITESBORO STREET

Tax Parcel 318.08-1-40

Brick Building

Overhead Power Pole Line

GAS

MH-5

MH-4

MH-6

MH-1

MH-2

MH-3

LP

Edge Of Curb

Ramp Wall

Tax Parcel 318.08-1-47

Tax Parcel 318.08-1-48

Tax Parcel 318.08-1-49

AREA 1

Tax Parcel 318.08-1-46

Tax Parcel 318.08-1-45

AREA 2

Tax Parcel 318.08-1-43

Tax Parcel 318.08-1-42

Tax Parcel 318.08-1-44

Remains Of Old Foundation

Tax Parcel 318.08-1-41

Old Brick Sidewalk

Concrete Sidewalk

Edge Of Curb

North

LEGEND

SITE BOUNDARY

UTILITY – WATER UNDERGROUND

UTILITY – ELECTRIC UNDERGROUND

UTILITY – SEWER

GAS UTILITY – GAS UNDERGROUND

0 25' 50' 75'

SCALE: 1"=50'

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26-28 WHITESBORO STREET
UTICA, NEW YORK

SITE LAYOUT

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FIGURE 2-1

The eastern portion of the property (Area 2) was occupied by various hotels from at least 1925 until at least 1973. Property ownership information is unknown. In 1993, the City of Utica acquired the eastern property in lieu of back taxes. The NYSDEC site designation for Areas 1 and 2 is B00063-6.

Figure 2-2 illustrates the approximate location of former buildings that occupied the site around 1970. A review of Sanborn maps for the area indicate that the structures shown on Figure 2-2 were in place around 1950 and remained relatively unchanged through at least 1986. Available sources did not reveal the locations of the site that were utilized for specific activities other than those illustrated in Figure 2-2 (i.e., boiler room and storage). In an effort to identify locations of the site that were used for activities that may have resulted in contamination of the site, attempts were made to contact former employees of Horrocks Ibbotson and Company. Table 2-1 presents a list of persons associated with Horrocks Ibbotson and Company. Efforts to locate and contact these persons were unsuccessful and it is likely that many former employees have either moved from the area or passed away.

In 1997, a Phase I Environmental Site Assessment (ESA) was prepared by Dames and Moore, Inc. for the 26-28 Whitesboro Street Site. Subsequently, a limited Phase II ESA was conducted in Area 1 of the site in 1997. The Phase II ESA included excavation of eight test pits and construction of twelve soil borings (see Figure 2-3). Total volatile organic compounds (VOCs) measured in headspace from soil samples collected from the test pits and soil borings indicated the presence of contaminated soil in the north central portion of Area 1. Five soil samples were collected for laboratory analyses during the Phase II ESA (see Table 2-2). One of these samples exceeded NYSDEC Recommended Soil Clean-up Objectives for acetone and trans-1,2-dichloroethene (Table A-1, Appendix A). Based on these results, Spill Number 97-09722 was issued by NYSDEC for the site. Analytical results from one groundwater sample collected from the middle of Area 1 showed that groundwater was not impacted at levels above New York State Class GA groundwater standards (Table A-3, Appendix A).

TABLE 2-1
SUMMARY OF HORROCKS IBBOTSON PERSONNEL
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

1978	Horrocks Ibbotson - not listed	
1975	D. Minnigerode	Exec V-Pres & Genl Mgr
	E.S. Cookinham	V-Pres
	J. Brownell	Sec-Treas
1970	D. Minnigerode	Exec V-Pres
	E.S. Cookinham	V-Pres
	J. Brownell	Sec
1969	R. H. Balch	Chairman of Board
	James P. Balch	Pres
	E.S. Cookinham	V-Pres
	J. Brownell	Sec
1968	Volume missing	
1965	Richard H. Balch	Pres
	James P. Balch	V-Pres
	Macy C. Robinson	V-Pres
	Richard H. Balch jr	Sec
1967	Richard H. Balch	Pres
	James P. Balch	V-Pres & Genl Mgr
	Macy C. Robinson	V-Pres
	Edw. S. Cookinham	V-Pres
	Richard H. Balch jr	Sec
	Geo. K. Burnap	Comptroller
1966	Richard H. Balch	Pres
	James P. Balch	V-Pres & Genl Mgr
	Macy C. Robinson	V-Pres
	Edw. S. Cookinham	V-Pres
	Richard H. Balch jr	Sec
	Geo. K. Burnap	Comptroller
1960	Richard H. Balch	Pres
	Macy C. Robinson	V-Pres
	Jas. M. Brenan	V-Pres
	Edw. Cookinham	V-Pres
	James P. Balch	Sec
	Wm. N. Macartney	Treas
	G. Kenneth Burnap	Comptroller
1955	Edward D. Ibbotson	Chairman of Board
	Richard H. Balch	Pres
	Macy C. Robinson	V-Pres
	M. T. Ibbotson	V-Pres - Sec
	Wm. N. Macartney	Treas
	G. K. Burnap	Comptroller
	J. M. Brenan	Asst Treas
	E. S. Cookinham	Asst Sec
1950	Edward D. Ibbotson	Chairman of Board
	Richard H. Balch	Pres
	Macy C. Robinson	V-Pres
	M. T. Ibbotson	V-Pres - Sec
	Wm. N. Macartney	Treas
	G. K. Burnap	Comptroller
	J. M. Brenan	Asst Treas
	E. S. Cookinham	Asst Sec
1945	Edward D. Ibbotson	Chairman of Board
	Richard H. Balch	Pres
	Macy C. Robinson	V-Pres
	M. T. Ibbotson	V-Pres
	Wm. N. Macartney	Treas
	G. K. Burnap	Comptroller
	George W. Richter	Sec
1940	Edward D. Ibbotson	Chairman of Board
	Richard H. Balch	Pres
	Macy C. Robinson	V-Pres
	M. T. Ibbotson	V-Pres
	Wm. N. Macartney	Treas
	G. K. Burnap	Comptroller
	George W. Richter	Sec
1935	Edward D. Ibbotson	Pres
	Macy C. Robinson	V-Pres
	Richard H. Balch	V-Pres
	George W. Richter	Sec
	Wm. N. Macartney	Asst Treas
	M. T. Ibbotson	V-Pres
1930	Edward D. Ibbotson	Pres
	Macy C. Robinson	V-Pres
	Richard H. Balch	V-Pres
	George W. Richter	Sec
	Walter H. Manwaring	Treas
	Wm. N. Macartney	Asst Treas
	M. T. Ibbotson	V-Pres
1928	Edward D. Ibbotson	Pres
	Macy C. Robinson	V-Pres
	Richard H. Balch	V-Pres
	Geo. W. Richter	Sec
	Walter H. Manwaring	Treas
1927	H. James Horrocks	Chairman Brd of Dir
	Edward D. Ibbotson	Pres
	Macy C. Robinson	V-Pres
	George W. Richter	Sec
	Walter H. Manwaring	Treas
1926	Volume missing	
1925	H. James Horrocks	Pres
	Edward D. Ibbotson	V-Pres
	Macy C. Robinson	Sec
	Walter H. Manwaring	Treas
1920	H. James Horrocks	Pres
	Edward D. Ibbotson	V-Pres & Sec
	James H. Horrocks	Treas
1915	H. James Horrocks	Pres
	Edward D. Ibbotson	V-Pres & Sec
	James H. Horrocks	Treas
1910	H. James Horrocks	Pres
	Edward D. Ibbotson	V-Pres & Sec
	James H. Horrocks	Treas
1905-1909	Horrocks Ibbotson - not listed	

Source:
1945 and later: Utica City Directory, RL Polk & Co Publishers, 600 Washington Street, Boston, MA
1935 and earlier: Steber Directory of the City of Utica, The Utica Publishing Co. of Utica, NY

TABLE 2-2
SUMMARY OF PREVIOUS INVESTIGATION SAMPLES COLLECTED
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

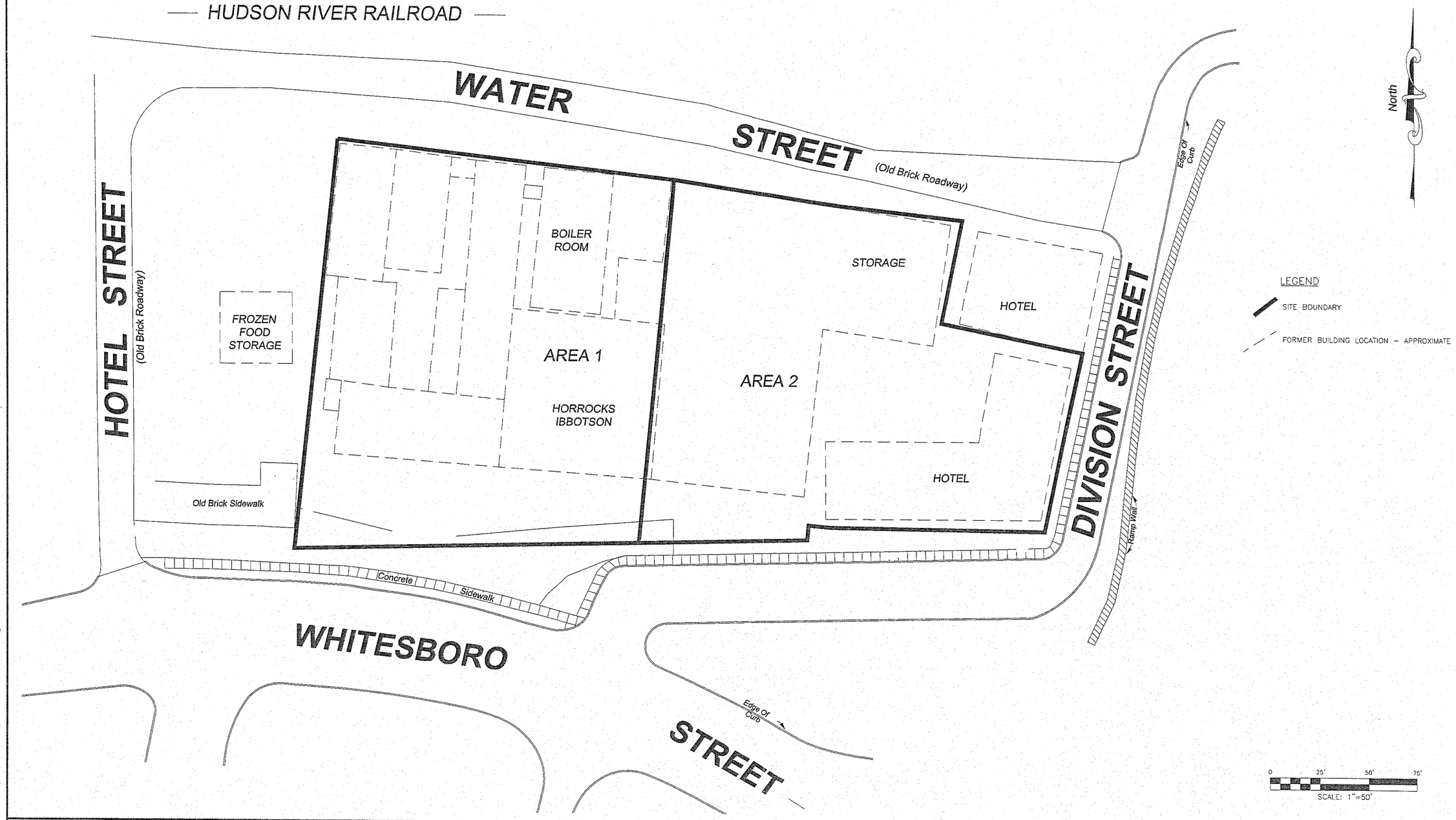
LOCATION	DEPTH	DATE	WORK BY	TCL VOCS	STARS VOCS (TCLP)	STARS VOCS	TCL SVOCS	STARS SVOCS (TCLP)	STARS SVOCS	RCRA METALS	TPH GRO/DRO
SUBSURFACE SOIL SAMPLES											
B-1	NS		D&M								
B-2	NS		D&M								
B-3	NS		D&M								
B-4	8 - 9	6/30/1997	D&M								X
B-5	NS		D&M								
B-6	NS		D&M								
B-7	NS		D&M								
B-8	9.83	6/26/1997	D&M								X
B-9	NS		D&M								
B-10	NS		D&M								
MWB-14	9.5 - 10	6/26/1997	D&M	X						X	X
B-15	9 - 10	6/27/1997	D&M								X
TP-1	NS		D&M								
TP-2	NS		D&M								
TP-3	NS		D&M								
TP-4	7.5		D&M	X							
TP-5	NS		D&M								
TP-12	NS		D&M								
TP-13	NS		D&M								
TP-16	NS		D&M								
H-1	NR	########	H	X							
H-2	NS		H								
H-3	NR	########	H		X			X			
H-4	NS		H								
H-5	NS		H								
H-6	NS		H								
H-7	NS		H								
H-8	NR	########	H		X			X			
H-9	NS		H								
H-10	NR	########	H		X			X			

TABLE 2-2 (continued)
SUMMARY OF PREVIOUS INVESTIGATION SAMPLES COLLECTED
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

LOCATION	DEPTH	DATE	WORK BY	TCL VOCS	STARS VOCS (TCLP)	STARS VOCS	TCL SVOCS	STARS SVOCS (TCLP)	STARS SVOCS	RCRA METALS	TPH GRO/DRO
H-11	NS		H								
H-12	NS		H								
H-13	NS		H								
H-14	NS		H								
H-15	NR	########	H		X			X			
H-16	NS		H								
H-17	NS		H								
H-18	NS		H								
H-19	NR	########	H		X			X			
H-20	NS		H								
H-21	NS		H								
H-22	NS		H								
H-23	NS		H								
H-24	NR	########	H		X			X			
H-25	NS		H								
H-26	NR	########	H		X			X			
H-27	NS		H								
H-28	NS		H								
HTP-1	NS		H								
HTP-2	NS		H								
HTP-3	NS		H								
GROUNDWATER SAMPLES											
MWB-14	NA	6/30/1997	D&M	X			X			X	
H-4	NA	########	H			X			X		
H-5	NA	########	H			X			X		
H-13	NA	########	H			X			X		

NOTES:

Depths reported in feet below grade
NS = Sample not collected for laboratory analysis from this location
NA = Not applicable
NR = Not recorded
D&M = Dames and Moore, Inc.
H = Hygeia of New York, Inc.
STARS = Spill Technology and Remediation Series
VOCS = Volatile organic compounds
SVOCS = Semivolatile organic compounds
RCRA = Resource Control and Recovery Act
TPH GRO/DRO = Total petroleum hydrocarbons gasoline/diesel range organics



26-28 WHITESBORO STREET
UTICA, NEW YORK

APPROXIMATE FORMER BUILDING LOCATIONS

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FIGURE 2-2

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HUDSON RIVER RAILROAD

WATER STREET

HOTEL STREET

(Old Brick Roadway)

(Old Brick Roadway)

Brick Building

Remains Of Old Foundation

Edge Of Curb

DIVISION STREET

Ramp Wall

North

AREA 1

AREA 2

H-1 H-2 H-3 H-4 H-5 H-6 H-7 H-8 H-9 H-10 H-11 H-12 H-13 H-14 H-15 H-16 H-17 H-18 H-19 H-20 H-21 H-22 H-23 H-24 H-25 H-26 H-27 H-28

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-15

TP-1 TP-2 TP-3 TP-4 TP-5 TP-12 TP-13 TP-16

HTP-1 HTP-2 HTP-3

MWB-14

Old Brick Sidewalk

Concrete Sidewalk

WHITESBORO STREET

Edge Of Curb

LEGEND

SITE BOUNDARY

WELL LOCATION- PREVIOUS
H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997)

BORING LOCATION- PREVIOUS
H-6 (H = HYGEIA 1999, B = DAMES & MOORE 1997)

TEST PIT LOCATION- PREVIOUS
TP-3 (HTP = HYGEIA 1999, TP = DAMES & MOORE 1997)

0 25' 50' 75'
SCALE: 1"=50'

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26-28 WHITESBORO STREET
UTICA, NEW YORK

PREVIOUS SAMPLE LOCATIONS - OTHERS

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FIGURE 2-3

In 1999, a second Phase II ESA was conducted at the site by Hygeia of New York, Inc. Thirteen additional soil borings were advanced and three temporary wells were installed in Area 1. In addition, three test pits were excavated and fifteen soil borings were advanced in Area 2. Locations of soil borings and test pits from this investigation are illustrated in Figure 2-3. A summary of samples collected during the investigation is presented in Table 2-2 and a summary of analytical data is presented in Tables A-1, A-2 and A-3 (Appendix A).

Samples collected from Area 1 confirmed the presence of soil contamination by petroleum related VOCs and semi-volatile organic compounds (SVOCs), and indicated limited groundwater contamination by petroleum related VOCs and SVOCs near the northern property boundary. Groundwater flow is to the north toward the Mohawk River. The Phase II report (Hygeia, 1999) concluded that the detected contamination was the result of a fuel oil release.

Analytical results for soil samples collected from the soil/groundwater interface in Area 2 contained compounds typically found in gasoline. Based on these results, the Phase II report (Hygeia, 1999) concluded that the central portion of Area 2 had been impacted by a gasoline spill.

Based on this existing information, a SI Work Plan was prepared and approved by the City of Utica and NYSDEC under the ERP Program. A detailed description of the activities performed as part of the SI is provided in the following section.

3.0 SITE INVESTIGATION

3.1 Geophysical Survey

On May 19 and 20, 2003, NAEVA Geophysics, Inc. conducted a geophysical survey of the 26-28 Whitesboro Street Site to search for possible underground storage tanks (USTs) that may have existed at the site. The area of the survey was approximately 180 by 380 feet. The equipment utilized included a Geonics EM-61 MK2 electromagnetic metal-detector, a Fisher TW-6 M-Scope hand-held metal detector, and a Sensors and Software Noggin Smart Cart ground penetrating radar (GPR) system with a 500 MHz antenna.

A survey grid of east/west lines was established across the site with a 5-foot spacing. The purpose of the grid was to facilitate a systematic approach to EM data collection and to allow the reacquisition of sample locations. It was expected that the 5-foot line spacing would make it possible to locate buried metallic objects large enough to be USTs, within the depth range of the instrument.

The EM-61 is a high-resolution time-domain metal-detector that is capable of detecting both ferrous and non-ferrous metallic objects. The EM-61 consists of three major parts: a hand-pulled cart housing a twin transmitter/receiver coil assembly; a backpack containing the battery and processing electronics; and a digital recorder. The EM-61's transmitter generates a pulsed primary magnetic field, which induces eddy currents in nearby metallic objects. The decay of these eddy currents is measured by each of two spatially separated receiver coils. By taking these measurements at a relatively long time after termination of the primary pulse, the response is practically independent of the electrical conductivity of the ground. The coils' responses are recorded by an integrated data logger and displayed as two channel data. The response curves from the receiver coils are typically well-defined positive peaks that allow accurate lateral location of targets.

The Fisher TW-6 is a type of hand-held electromagnetic metal-detector. The instrument consists of a transmitter coil and a receiver coil mounted at opposite ends of a 4-foot horizontal

staff. The transmitter is fixed in a vertical position. The receiver's orientation is then adjusted to the horizontal, exactly perpendicular to the transmitter. When the receiver is in this perpendicular orientation, its response to the transmitter is at a minimum. Metallic objects in the vicinity of the instrument pick up the transmitted signal, and acting as secondary transmitters, cause detectable interference at the receiver. By adjusting the gain of the instrument, as well as its position relative to a buried metallic object, an experienced operator can often obtain information as to the size or shape of the target. The TW-6 was used in a general reconnaissance investigation of the site, including those portions that were inaccessible to the EM-61 (northeast corner and east side of the property covered with heavy vegetation), and as a follow-up tool for EM-61 anomalies.

The GPR method provides a rapid means of non-intrusive data collection. The system is most commonly moved along the surface at a consistent pace as data are collected continuously along profiles. The depth at which a feature can be imaged is largely dependent on subsurface material type (resistive versus conductive). With prior knowledge of expected subsurface materials and clearly defined objectives, an experienced operator can optimize data collection parameters to compensate for less than ideal geologic environments. GPR provides a high resolution, cross-sectional image of the shallow subsurface. A short pulse of electromagnetic energy is radiated downward. When this pulse strikes an interface between layers of material with different electrical properties, part of the wave reflects back, and the remaining energy continues to the next interface. Depth measurements to interfaces are determined from travel time of the reflected pulse and the velocity of the radar signal. The Sensors and Software Noggin Smart Cart system operates at intermediate frequencies, offering good depth penetration and resolution, and is well adapted for delineating features, such as utilities and USTs in cluttered urban environments. The Sensors and Software Noggin Smart Cart system generates real-time images on its display, which are later uploaded to a computer.

The EM-61, operating in the wheel-triggered mode, collected data at approximately 0.7-foot intervals along each grid line. The line number, sampling direction and starting location were entered into the instrument at the beginning of each line. A fiducial mark was added to the data every 40 feet along a line, to be used during data processing to correct for terrain induced

odometer error. The beginning and ending points of each line were also hand recorded in a field notebook.

The raw data from the digital recorder were transferred to a laptop computer and processed using Geonic's DAT61 software. First, the starting and end points of each line were checked against the written field notebook. The software then automatically adjusted the location for the data between end points and fiducial marks by either compressing or expanding them. The data were converted to a spreadsheet format compatible with Surfer Mapping Software for contouring.

Using the grid coordinates as a guide, significant EM-61 targets were relocated in the field. The area surrounding each EM anomaly was visually inspected for evidence of cultural features that could represent the source of the anomaly. When no obvious surface cultural sources could be identified, the anomalies were investigated using the TW-6 metal-detector in an attempt to identify a source and delineate its approximate surface trace. Anomalies whose surface trace suggested a possible UST were mapped and assigned reference numbers. GPR data profiles were collected along bi-directional traverses centered over the anomalies.

There was no conclusive evidence obtained from the results of the geophysical survey to suggest the presence of USTs at the site. A total of 17 metal-detector anomalies were identified with the EM-61 data contour map and TW-6 follow-up. Most of these detected anomalies were associated with visible cultural sources. The five most significant metal-detector anomalies were marked with wood stakes and white flags, and further investigated with the GPR. GPR data profiles collected over these anomalies showed flat buried objects at a depth range of approximately 1 to 2 feet. These features are probably reinforced concrete and/or metallic construction materials associated with former building structures. No other evidence of USTs was identified within the area investigated. A copy of the geophysical report prepared by NAEVA Geophysics, Inc. is provided in Appendix B.

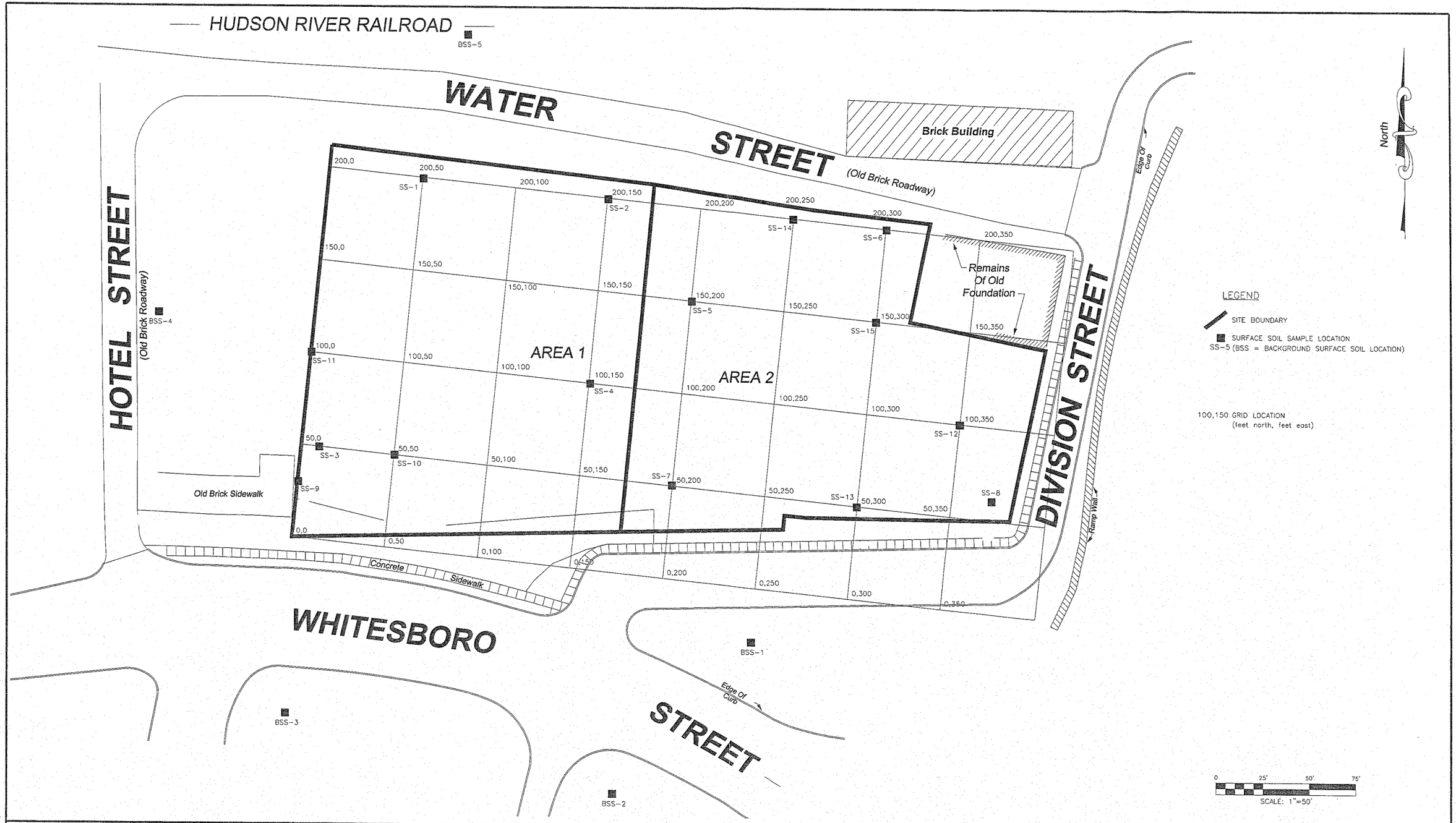
3.2 Radiation Screening Survey

Results of previous investigations indicated that extensive portions of the site are underlain by fill at depths up to 11 feet below ground surface. Since the source and composition of the fill material were unknown, a radiation screening survey was conducted at the property. A Ludlum Model 3 hand-held radiation meter was used to determine radiation levels on-site and a comparison was made to off-site background levels. The radiation survey, which was conducted on June 5, 2003, included Areas 1 and 2, and was conducted along the 50-foot grid system that was established in the field using a tape measure and wooden stakes. There were no radiation readings above background observed at any of the survey points.

3.3 Surface Soil Sampling

Fifteen surface soil samples (0-2 inches below ground surface) were collected from various portions of the site. Seven samples were collected from Area 1 and eight samples were collected from Area 2. In addition, five background surface soil samples were collected from off-site locations.

A grid with 50 foot spacing was established over Area 1 and Area 2. Samples at the grid nodes were screened for VOCs with a photoionization detector (PID). The intent was to collect samples for laboratory analysis from areas of elevated PID measurements, stressed vegetation or discolored soil; however, there was no indication that these conditions existed during the field investigation. Therefore, the samples were collected from locations that provided balanced coverage of the site surface. The surface soil sample locations are presented in Figure 3-1.



26-28 WHITESBORO STREET
UTICA, NEW YORK

SAMPLE LOCATIONS - SURFACE SOIL SAMPLES

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FIGURE 3-1

JUL 7, 2005 SEP C:\1909\whitesboro SEP SIR base.dwg

Eight surface soil samples were collected on June 6, 2003. Seven additional on-site surface soil samples and five off-site background surface soil samples were collected on June 1 and June 2, 2005. Surface soil samples were collected using disposable polyethylene scoops. Each of the eight surface soil samples collected in June 2003 was analyzed at the laboratory for Target Compound List (TCL) SVOCs, TCL pesticides/PCBs, Target Analyte List (TAL) metals and cyanide. Each of the seven on-site and five off-site surface soil samples collected in June 2005 was analyzed at the laboratory for TCL SVOCs and TAL metals. Table 3-1 presents a summary of the samples that were collected during the SI.

3.4 Subsurface Soil Sampling

Subsurface soil samples were collected from ten locations in Area 1 and two locations in Area 2 in June 2003. Additional subsurface soil sampling was conducted in June 2005 and included the collection of samples from eight locations in Area 1 and one location in Area 2. In addition, a subsurface soil sample was collected from one off-site location in June 2005. The subsurface soil sample locations are presented in Figure 3-2. Subsurface soil samples were collected near geophysical anomalies, within the previously identified area of impacted soil, in the eastern and western portions of Area 1 where samples were not previously collected, and at the downgradient property boundary.

Subsurface soil samples were collected on June 5 and 6, 2003 and June 1 and 2, 2005, using a drill rig and direct push sampling technique. Parratt-Wolff, Inc. conducted the soil borings using a truck mounted Ingersoll-Rand A-300 drill rig. Subsurface samples were screened and logged by a D&B geologist. Soil boring logs are presented in Appendix C. At each location, soil samples were collected continuously to the water table. Each sample was screened for VOCs using a PID and geologically logged, including observations of contamination, such as odors or staining, if present. Due to the extensive fill present across the property and its proximity to the Mohawk River, subsurface soil samples were also screened for methane using a RAE Systems VRAE 4-in-1 gas meter. The worst-case interval based on PID readings, odors, staining, etc. was collected for laboratory analysis. Where no worst-case interval was evident, the interval above the water table was collected for laboratory analysis.

TABLE 3-1
SUMMARY OF SITE INVESTIGATION SAMPLES COLLECTED
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

LOCATION	DEPTH	DATE	TIME	TCL VOCS	TCL SVOCS	TCL PEST/PCB	TAL METALS	CYANIDE
SURFACE SOIL SAMPLES								
SS-1	0 - 0.2	6/6/2003	1250		X	X	X	X
SS-2	0 - 0.2	6/6/2003	1255		X	X	X	X
SS-3	0 - 0.2	6/6/2003	1305		X	X	X	X
SS-4	0 - 0.2	6/6/2003	1300		X	X	X	X
SS-5	0 - 0.2	6/6/2003	1320		X	X	X	X
SS-6	0 - 0.2	6/6/2003	1325		X	X	X	X
SS-7	0 - 0.2	6/6/2003	1335		X	X	X	X
SS-8	0 - 0.2	6/6/2003	1330		X	X	X	X
SS-9	0 - 0.2	6/1/2005	1705		X		X	
SS-10	0 - 0.2	6/1/2005	1655		X		X	
SS-11	0 - 0.2	6/1/2005	1640		X		X	
SS-12	0 - 0.2	6/1/2005	1815		X		X	
SS-13	0 - 0.2	6/1/2005	1825		X		X	
SS-14	0 - 0.2	6/1/2005	1745		X		X	
SS-15	0 - 0.2	6/1/2005	1800		X		X	
BSS-1	0 - 0.2	6/2/2005	1220		X		X	
BSS-2	0 - 0.2	6/2/2005	1235		X		X	
BSS-3	0 - 0.2	6/2/2005	1240		X		X	
BSS-4	0 - 0.2	6/2/2005	1250		X		X	
BSS-5	0 - 0.2	6/1/2005	1730		X		X	
SUBSURFACE SOIL SAMPLES								
B-1	6 - 8	6/5/2003	1010	X	X	X	X	X
B-2	6 - 8	6/5/2003	1113	X	X	X	X	X
B-3	4 - 6	6/6/2003	1135	X	X	X	X	X
B-4	8 - 10	6/5/2003	1606	X	X	X	X	X
B-5	8 - 10	6/5/2003	1445	X	X	X	X	X
B-6	8 - 10	6/6/2003	1047	X	X	X	X	X
B-7	6 - 8	6/5/2003	1520	X	X	X	X	X
B-8	2 - 4	6/5/2003	1632	X	X	X	X	X
B-9	6 - 8	6/6/2003	0810	X	X	X	X	X
B-10	6 - 8	6/6/2003	0837	X	X	X	X	X
B-11	2 - 4	6/6/2003	0952	X	X	X	X	X
B-12	8 - 10	6/6/2003	0920	X	X	X	X	X
MW-1 / B-13	4 - 6	6/1/2005	1126	X	X			
	8 - 10	6/1/2005	1133	X	X			
B-14	6 - 8	6/1/2005	1330	X	X			
	8 - 10	6/1/2005	1332	X	X			
B-15	2 - 4	6/1/2005	1351	X	X			
	6 - 8	6/1/2005	1359	X	X			
MW-2 / B-16	6 - 8	6/1/2005	1556	X	X			
	8 - 10	6/1/2005	1558	X	X			
B-17	2 - 4	6/1/2005	1455	X	X			
	6 - 8	6/1/2005	1511	X	X			

TABLE 3-1 (continued)
SUMMARY OF SITE INVESTIGATION SAMPLES COLLECTED
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

LOCATION	DEPTH	DATE	TIME	TCL VOCS	TCL SVOCS	TCL PEST/PCB	TAL METALS	CYANIDE
B-18	4 - 6	6/1/2005	1428	X	X			
	8 - 10	6/1/2005	1432	X	X			
MW-3	6 - 8	6/2/2005	0945	X	X			
MW-4	4 - 6	6/2/2005	0735	X	X			
	6 - 8	6/2/2005	0748	X	X			
MW-5	NS							
MW-6	6 - 8	6/2/2005	1115	X	X			
MW-7	NS							
MW-8	2 - 4	6/1/2005	0940	X	X			
	6 - 8	6/1/2005	0949	X	X			
GROUNDWATER SAMPLES								
B-1	NA	6/10/2003	0905	X	X		X	
B-2	NA	6/10/2003	0920	X	X			
B-3	NA	6/10/2003	0930	X	X		X	
B-4	NA	6/10/2003	1010	X	X			
B-5	NA	6/10/2003	1030	X	X			
B-6	NA	6/10/2003	1055	X	X			
B-7	NA	6/10/2003	1125	X	X			
B-8	NA	6/10/2003	1320	X	X			
B-9	NA	6/10/2003	1255	X	X			
B-10	NA	6/10/2003	1235	X	X		X	
B-11	NA	6/10/2003	1145	X	X		X	
B-12	NA	6/10/2003	1210	X	X		X	
MW-1	NA	6/6/2005	1210	X			X (T&F)	
MW-2	NA	6/6/2005	1215	X			X (T&F)	
MW-3	NA	6/6/2005	1230	X			X (T&F)	
MW-4	NA	6/6/2005	1225	X			X (T&F)	
MW-5	NA	6/6/2005	1245	X			X (T&F)	
MW-6	NA	6/6/2005	1250	X			X (T&F)	
MW-7	NA	6/6/2005	1235	X			X (T&F)	
MW-8	NA	6/6/2005	1200	X			X (T&F)	
MW-1	NA	7/5/2006	1325				X (T&F)	
MW-2	NA	7/5/2006	1315				X (T&F)	
MW-3	NA	7/5/2006	1335				X (T&F)	
MW-4	NA	7/5/2006	1300				X (T&F)	
MW-5	NA	7/5/2006	1415				X (T&F)	
MW-6	NA	7/5/2006	1425				X (T&F)	
MW-7	NA	7/5/2006	1405				X (T&F)	
MW-8	NA	7/5/2006	1345				X (T&F)	

NOTES:

Depths reported in feet below grade
NS = Sample not collected for laboratory analysis from this location
NA = Not applicable
T&F = Both total and filtered samples collected
TCL = Target Compund List
VOCS = Volatile organic compounds
SVOCS = Semivolatile organic compounds
PEST/PCB = Pesticides/polychlorinated biphenyls
TAL = Target Analyte List

HUDSON RIVER RAILROAD

WATER STREET (Old Brick Roadway)

HOTEL STREET (Old Brick Roadway)

DIVISION STREET

WHITESBORO STREET

Brick Building

Remains Of Old Foundation

Edge Of Curb

Old Brick Sidewalk

Concrete Sidewalk

Ramp Wall

AREA 1

AREA 2

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15 B-17 B-18

North

LEGEND

SITE BOUNDARY

B-5 SUBSURFACE SOIL SAMPLE AND MONITORING WELL LOCATION

B-13 SUBSURFACE SOIL SAMPLE LOCATION

100,150 GRID LOCATION (feet north, feet east)

0 25' 50' 75'

SCALE: 1"=50'

26-28 WHITESBORO STREET
UTICA, NEW YORK

SAMPLE LOCATIONS - SUBSURFACE SOIL SAMPLES

Dvirka and Bartilucci Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 3-2

JUL 7, 2005 SEP C:\1909\whitesboro SEP SIR base.dwg

Twelve subsurface soil samples obtained in 2003 were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. Seventeen subsurface soil samples from on-site locations and one subsurface soil sample from an off-site location collected in June 2005 were analyzed for TCL VOCs and TCL SVOCs. Table 3-1 presents a summary of the samples that were collected during the SI.

Cuttings generated from the construction of the boreholes were screened visually and with a PID, and did not appear to be contaminated. The cuttings were handled in accordance with NYSDEC TAGM No. 4032 "Disposal of Drill Cuttings," dated November 1989. The TAGM allows for on-site disposal of cuttings as long as certain criteria as to location and cover of cuttings are met.

3.5 Groundwater Characterization

Groundwater characteristics at the 26-28 Whitesboro Street Site were assessed using several techniques. These included observations of soil characteristics during drilling, installation of groundwater monitoring wells, groundwater sampling and measurement of water level depths to determine groundwater elevations and flow direction. Groundwater monitoring well locations are illustrated on Figure 3-2.

Temporary groundwater monitoring wells were installed at each of the 12 subsurface soil boring locations advanced in June 2003 subsequent to drilling to the desired completion depth. Soil borings were advanced to a depth approximately 5 feet below the water table, and the soil sampling tools were removed from the borehole and replaced with temporary, 1-inch diameter schedule 40 PVC well screen and riser. The boreholes were allowed to collapse around the PVC well materials and a flush mount curb box was installed to protect the temporary wells. At the completion of the project, the curb boxes and temporary wells will be removed, and the boreholes filled with bentonite.

HUDSON RIVER RAILROAD

WATER STREET

(Old Brick Roadway)

HOTEL STREET

(Old Brick Roadway)

DIVISION STREET

WHITESBORO STREET

Brick Building

Remains Of Old Foundation

Edge of Curb

Ramp Wall

Old Brick Sidewalk

Concrete Sidewalk

Edge Of Curb

AREA 1

AREA 2

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15 B-17 B-18

North

LEGEND

SITE BOUNDARY

B-5 SUBSURFACE SOIL SAMPLE AND MONITORING WELL LOCATION

B-13 SUBSURFACE SOIL SAMPLE LOCATION

0 25' 50' 75'

SCALE: 1"=50'

JUL 7, 2005 SEP C:\1909\whitesboro SEP SIR base.dwg

26-28 WHITESBORO STREET
UTICA, NEW YORK

SAMPLE LOCATIONS - GROUNDWATER SAMPLES

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 3-3

Permanent groundwater monitoring wells were installed at eight locations advanced in June 2005. Soil borings were advanced to a depth approximately 5 feet below the water table, and the soil sampling tools were removed from the borehole. Permanent wells were constructed with 2-inch diameter Schedule 40 PVC well screen and riser. Well screens were installed at the bottom of the boreholes. Sand pack was placed in the annulus between the borehole wall and the well screen extending from the well bottom to at least 1 foot above the top of the screen and at least 2 feet of bentonite seal was placed above the sand pack. Lockable expansion caps were installed on the well riser pipes and flush-mount protective steel casings were installed in concrete surface pads. Well construction logs are presented in Appendix C.

Permanent groundwater monitoring wells were initially developed on June 6, 2005 by surging and evacuating groundwater using dedicated bailers. Water was not removed from the wells until at least one day after well completion to allow the grout and concrete surface seals to cure, thereby minimizing the potential for surface water to enter the screened zone. Permanent groundwater monitoring wells were redeveloped on July 5, 2006 using a surge-block and evacuating groundwater using dedicated bailers. Well development logs are presented in Appendix C.

Groundwater levels in the temporary and permanent monitoring wells were measured prior to groundwater sampling events. Water level measurements were made from a measuring point on the top of the PVC well casing. A Wild Heerbrugg Model NA24 “auto-level” and graduated stadia rod was utilized to determine the relative elevations of the wells. Relative elevation measurements included a fixed, permanent on-site datum (electrical manhole cover MH-2 at the south-southeast portion of Area 1) and the relative elevation of the top of PVC at each well location relative to the datum. Elevation measurements were made to the nearest 0.01 feet. Groundwater level data was used to construct a water table surface map and to determine the local horizontal groundwater flow direction.

The first occurrence of groundwater or saturated conditions is in the overburden layer above bedrock. Water level monitoring of the wells indicates that the depth of groundwater averages 9.7 feet below ground surface with a range of 6.9 feet below ground surface to 11.2 feet

below ground surface. Groundwater elevations for the site monitoring wells is presented in Table 3-2. Precipitation falling on the site flows to the perimeter ditches or infiltrates downward through the unconsolidated materials. Shallow groundwater that originates at the site flows off-site in a northwest and northeast direction. Figures 3-4, 3-5, 3-6 and 3-7 depict the water table surface for the site on June 10, 2003, September 11, 2003, June 6, 2005 and July 5, 2006, respectively.

Groundwater samples were collected from each of the ten temporary wells in Area 1 of the site and the two temporary wells in Area 2 on June 10, 2003. The wells were purged prior to sampling using an inertia-lift pump with dedicated, disposable polyethylene tubing and stainless steel foot valve. Each of the wells was purged of at least three well volumes prior to collecting groundwater samples. Groundwater samples were collected using the inertia-lift pump with polyethylene tubing and stainless steel foot valves. The groundwater samples were transferred directly from the tubing to the appropriate sample containers.

Groundwater samples were collected from each of the eight permanent wells on June 6, 2005 and July 5, 2006. The wells were purged prior to sampling using dedicated, disposable polyethylene bailers. Each of the wells was purged of at least three well volumes prior to collecting groundwater samples. Groundwater samples were collected using the bailers and transferred directly from the bailers to the appropriate sample containers.

Groundwater samples from each of the temporary wells in June 2003 were analyzed for TCL VOCs and TCL SVOCs. Groundwater samples from three temporary wells within Area 1 (B-1, B-3 and B-10) and two temporary wells within Area 2 (B-11 and B-12) collected in June 2003 were also analyzed for TAL metals. Groundwater samples collected from the permanent wells in June 2005 were analyzed for TCL VOCs and TAL metals (both filtered and unfiltered). Groundwater samples collected from the permanent wells in July 2006 were analyzed for TAL metals (both filtered and unfiltered). Table 3-1 presents a summary of the samples that were collected during the SI.

TABLE 3-2
WATER LEVEL MEASUREMENT SUMMARY
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

WELL	REFERENCE ELEVATION (ft*)	TOP OF SCREEN (ft BG)	BOTTOM OF SCREEN (ft BG)	DATE							
				6/10/2003		9/11/2003		6/6/2005		7/5/2006	
				DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
B-1	103.17	2.0	12.0	8.34	94.83	8.81	94.36	8.71	94.46	NM	NM
B-2	104.31	6.0	16.0	9.38	94.93	9.95	94.36	9.84	94.47	NM	NM
B-3	104.24	4.0	14.0	9.02	95.22	9.85	94.39	9.63	94.61	NM	NM
B-4	104.59	4.0	14.0	9.56	95.03	10.09	94.50	9.97	94.62	NM	NM
B-5	105.37	4.0	14.0	10.10	95.27	10.80	94.57	NM	NM	NM	NM
B-6	106.03	4.0	14.0	10.62	95.41	11.39	94.64	11.21	94.82	NM	NM
B-7	105.60	4.0	14.0	10.07	95.53	10.81	94.79	10.65	94.95	NM	NM
B-8	105.61	4.0	14.0	9.80	95.81	10.59	95.02	NM	NM	NM	NM
B-9	105.93	4.0	14.0	10.12	95.81	10.88	95.05	10.60	95.33	NM	NM
B-10	106.15	4.0	14.0	10.37	95.78	11.17	94.98	11.01	95.14	NM	NM
B-11	103.59	4.0	14.0	9.28	94.31	9.81	93.78	9.74	93.85	NM	NM
B-12	104.19	4.0	14.0	8.55	95.64	9.44	94.75	9.15	95.04	NM	NM
MW-1	105.24	4.0	14.0	NI	NI	NI	NI	10.41	94.83	8.57	96.67
MW-2	104.00	4.0	14.0	NI	NI	NI	NI	9.30	94.70	7.87	96.13
MW-3	103.15	4.0	14.0	NI	NI	NI	NI	8.57	94.58	7.11	96.04
MW-4	104.13	4.0	14.0	NI	NI	NI	NI	9.76	94.37	8.29	95.84
MW-5	100.48	4.0	14.0	NI	NI	NI	NI	6.46	94.02	6.92	93.56
MW-6	100.84	4.0	14.0	NI	NI	NI	NI	6.63	94.21	4.85	95.99
MW-7	102.29	4.0	14.0	NI	NI	NI	NI	7.70	94.59	6.05	96.24
MW-8	102.50	4.0	14.0	NI	NI	NI	NI	8.58	93.92	6.63	95.87

NOTES:

ft* = elevations in feet relative to elevation of 105.96 feet at manhole MH-2
ft BG = feet below grade
DTW = depth to water in feet below measuring point on top of well casing
ELEV = groundwater elevation in feet
NI = well not installed
NM = not measured, well damaged or not located

FIGURE 3-4
GROUNDWATER CONTOUR MAP - JUNE 10, 2003
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

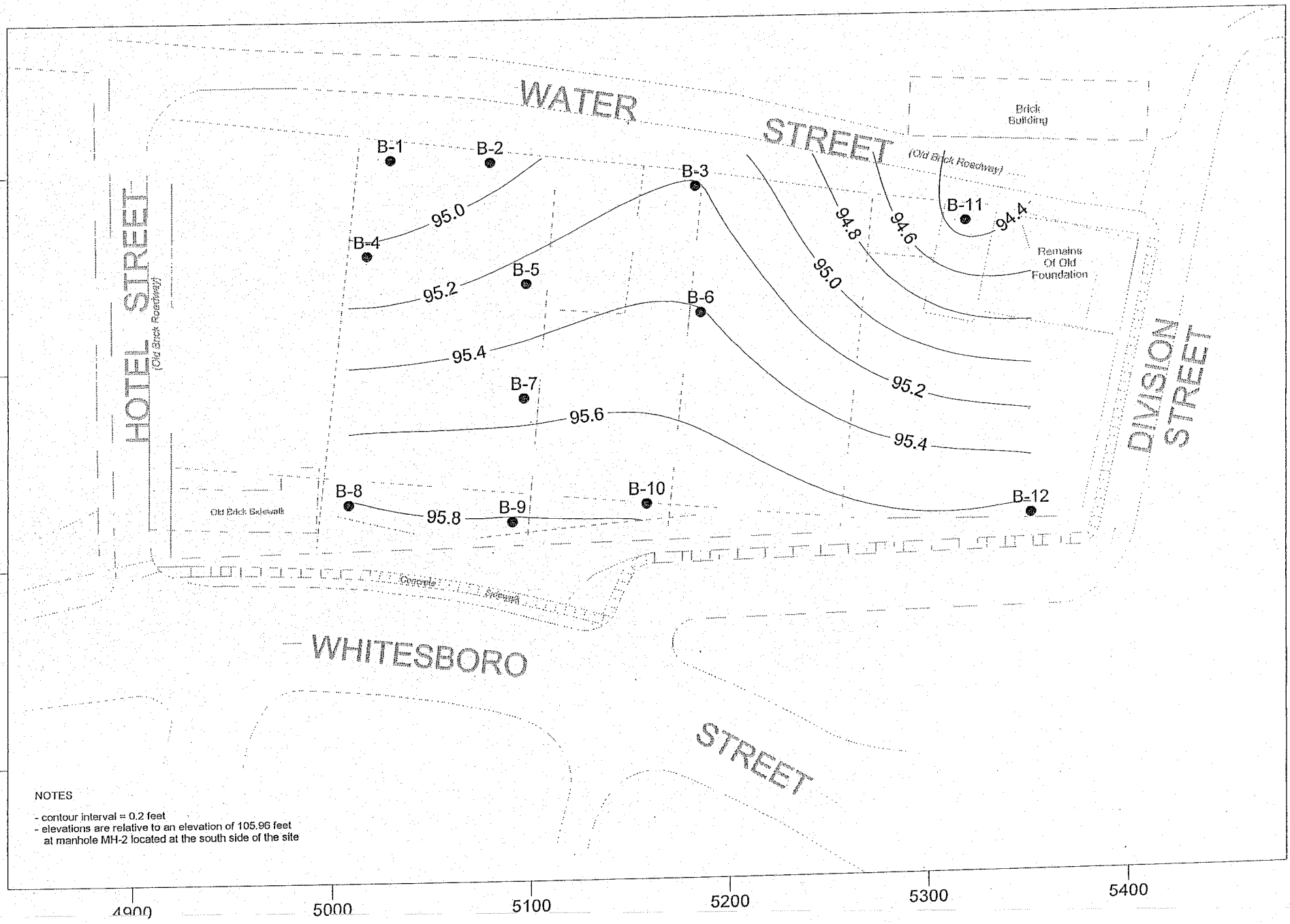
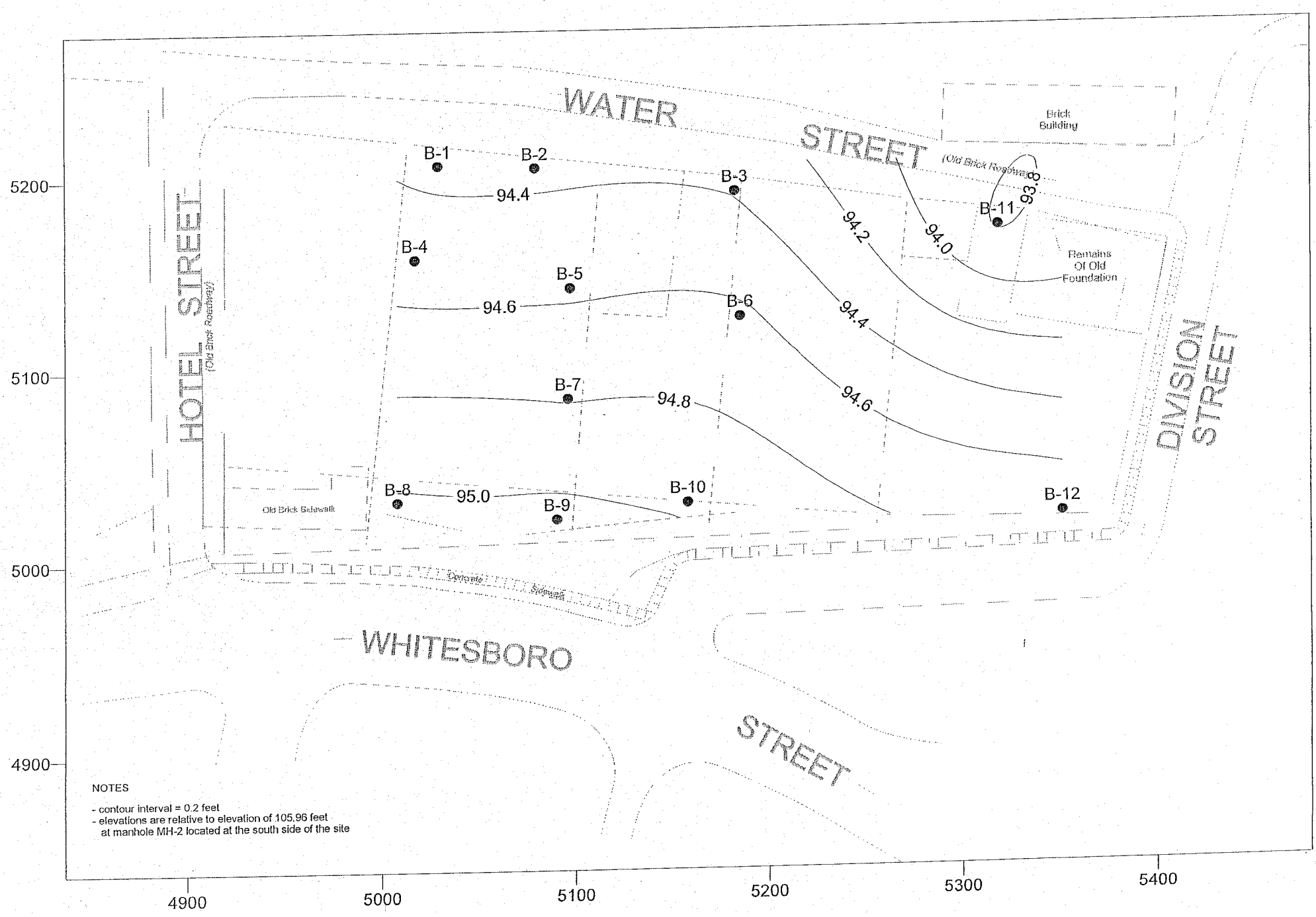


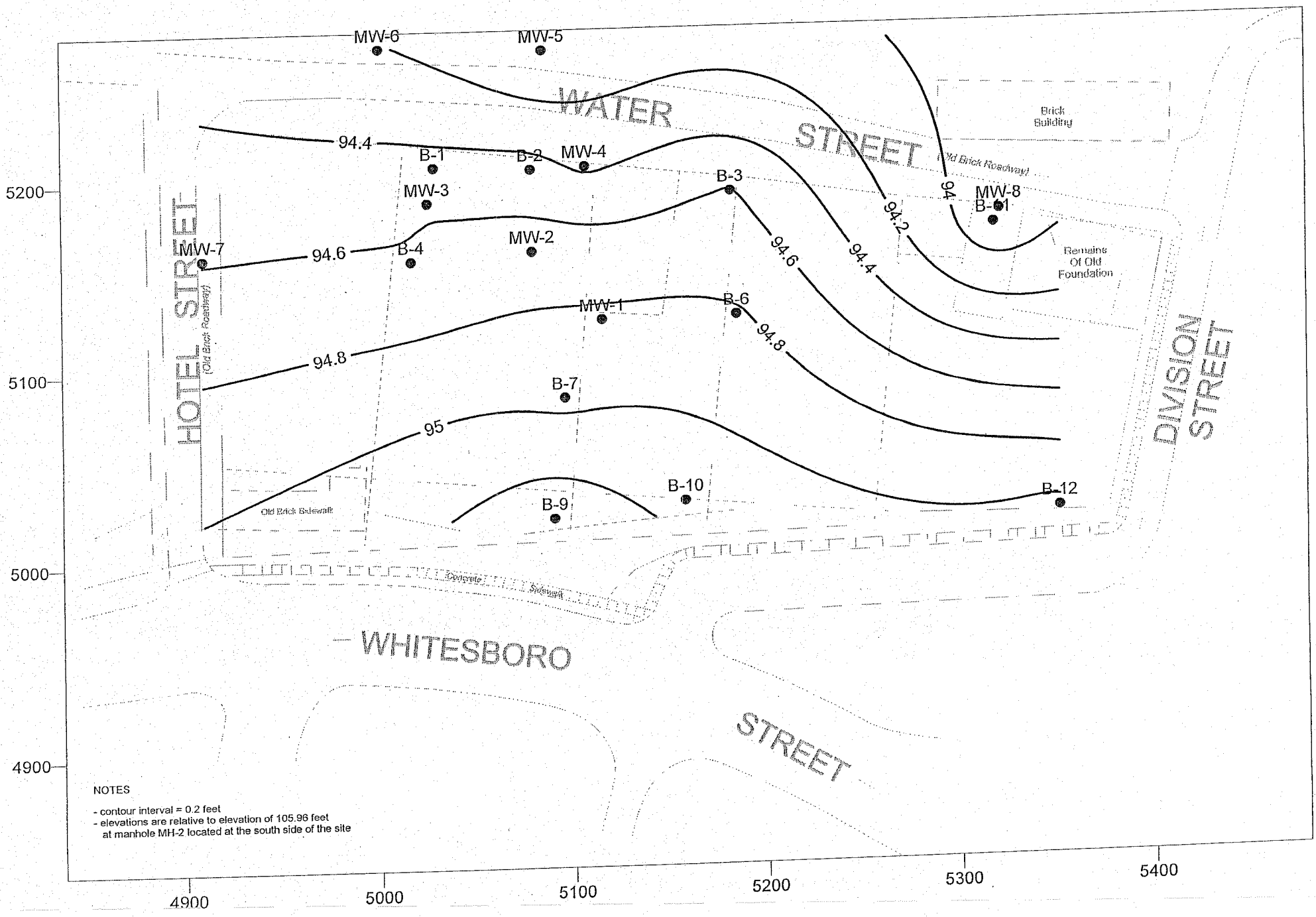
FIGURE 3-5
GROUNDWATER CONTOUR MAP - SEPTEMBER 11, 2003
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK



NOTES

- contour interval = 0.2 feet
- elevations are relative to elevation of 105.96 feet at manhole MH-2 located at the south side of the site

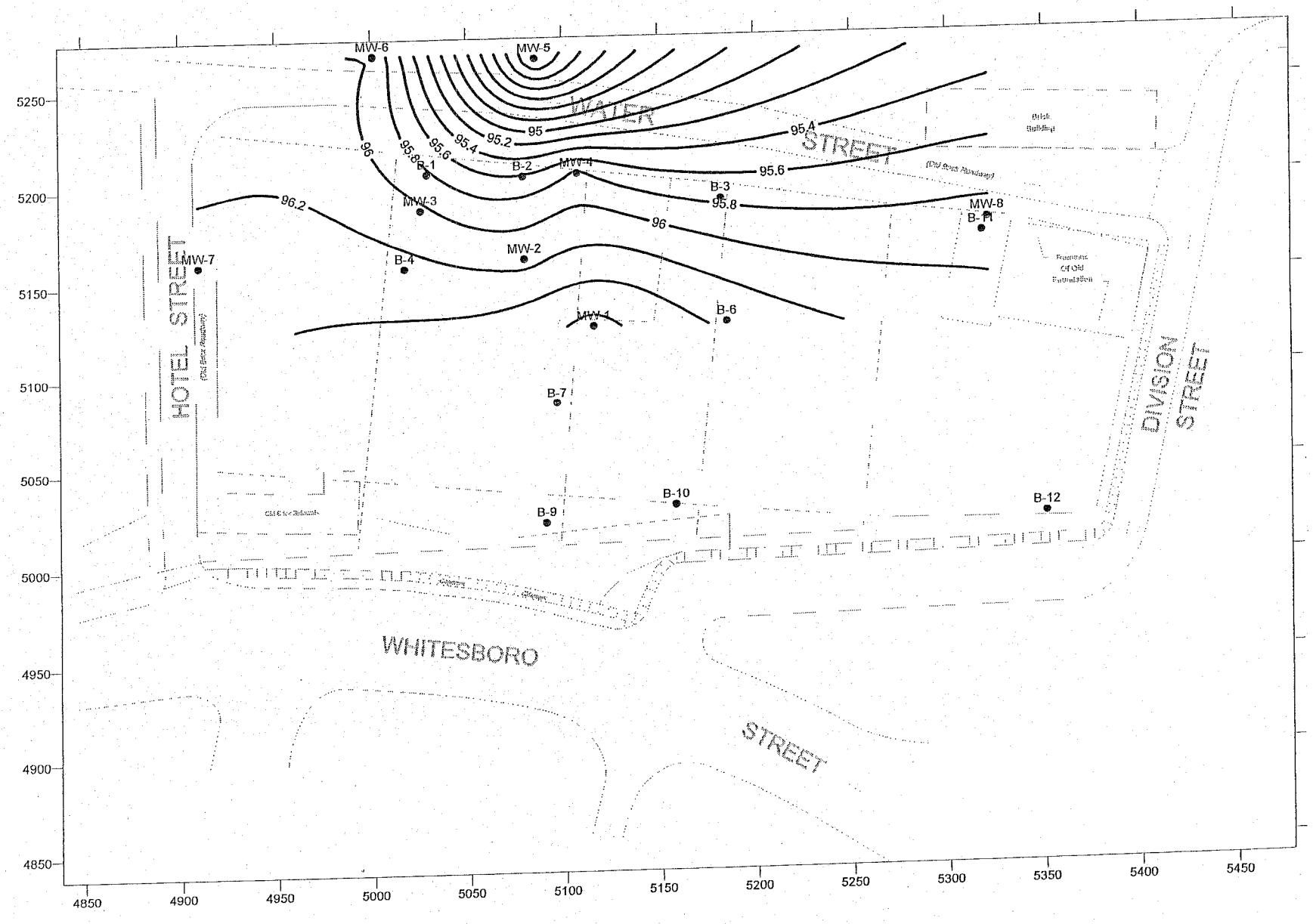
FIGURE 3-6
GROUNDWATER CONTOUR MAP - JUNE 6, 2005
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK



NOTES

- contour interval = 0.2 feet
- elevations are relative to elevation of 105.96 feet at manhole MH-2 located at the south side of the site

FIGURE 3-7
GROUNDWATER CONTOUR MAP - JULY 5, 2006
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK



NOTES

- contour interval = 0.2 feet
- elevations are relative to elevation of 105.96 feet at manhole MH-2 located at the south side of the site

3.6 Quality Assurance/Quality Control

A site-specific Quality Assurance/Quality Control Plan (QA/QC) was developed for the site and is included in the NYSDEC-approved SI/RAR Work Plan, dated June 2002. Work performed during the field investigation was performed in accordance with procedures described in the QA/QC Plan. The QA/QC Plan was designed to maximize the quality and validity of the data collected during the field investigation. The QA/QC Plan describes detailed sampling and analytical procedures, as well as necessary QA/QC sampling and analyses for each sampling matrix investigated. Adherence to QA/QC protocols allows for data validation and usability analyses. In accordance with the QA/QC plan, chain of custody forms and sample information records were completed for each sample collected and are presented along with shipping records in Appendix D.

3.7 Analytical Methodology

All laboratory sample analyses were performed in accordance with NYSDEC 6/00 Analytical Services Protocol (ASP) requirements by Mitkem Corporation, Inc., a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) laboratory certified in all categories of Contract Laboratory Protocol (CLP) and Solid and Hazardous Waste analytical testing. Data Usability Summary Reports were prepared and are included in Section 4.5. Category B deliverables were provided by the laboratory and have been retained in the project files, and are available for full data validation by a qualified independent third party, if required.

3.8 Health and Safety

A site-specific Health and Safety Plan (HASP) was prepared for the work conducted for this investigation. The HASP was prepared in accordance with the requirements of the Occupational Safety and Health Administration (OSHA) to provide site-specific health and safety information, and provide for worker and community protection. The Health and Safety

Plan is contained in the NYSDEC-approved Work Plan dated June 2002. Activities conducted as part of the field investigation were conducted in accordance with the HASP.

4.0 NATURE AND EXTENT OF CONTAMINATION

The purpose of this section is to discuss the results of the site sampling program conducted at the 26-28 Whitesboro Street Site. The sample analytical results are compared to standards, criteria and guidance (SCGs) selected for the site to determine potential impacts on human health and the environment. The nature and extent of contamination found at, and in the vicinity of the site during the field investigation is described below.

4.1 Identification of Standards, Criteria and Guidelines

This section provides a presentation of the SCGs, which were used as screening values to determine the significance of the analytical results and contamination found at the site. Exceedance of the SCGs does not necessarily imply that remediation is required, but rather identifies the contaminants and media of potential concern, as well as areas of the site that will require further evaluation as part of the risk assessment.

4.1.1 Soil

Screening levels for the surface and subsurface soil analytical results are based on the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, "Determination of Soil Cleanup Objectives and Cleanup Levels", dated January 1994. TAGM 4046 values were developed based on human health criteria and are not necessarily protective of wildlife exposed to soils at the site.

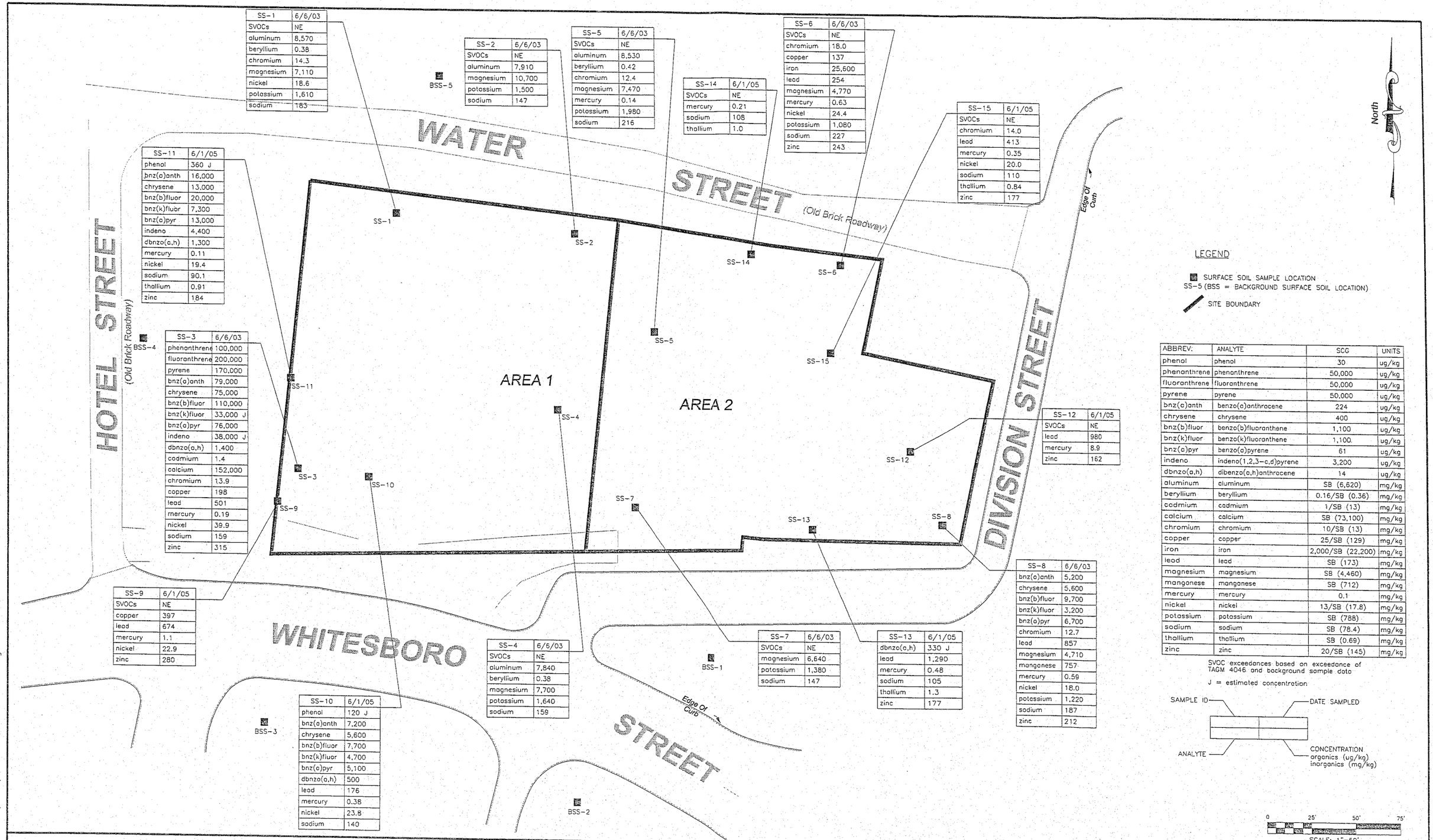
4.1.2 Groundwater

The screening levels for the groundwater analytical results were obtained from the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values", dated June 1998. Analytical results obtained for groundwater samples are compared to Class GA groundwater standards and guidance values.

4.2 Surface Soil Sample Results

A total of twenty surface soil samples were collected in association with the site during this investigation. Fifteen surface soil samples from the site were evaluated by laboratory analyses for TCL SVOCs and TAL metals. Eight surface soil samples from the site were evaluated by laboratory analyses for TCL pesticides, TCL PCBs and cyanide. Five background surface soil samples collected from off-site locations were evaluated by laboratory analyses for TCL SVOCs and TAL metals. Figure 4-1 summarizes exceedances of SCGs in surface soil based on laboratory data. SVOC exceedances illustrated in Figure 4-1 are based on a comparison to SVOC concentrations in off-site background surface soil samples.

Eleven SVOCs were detected above SCGs in the surface soil samples that were collected from the site. The SVOC results for surface soil samples are presented in Appendix E, Tables 1a and 2a. Table 4-1 presents a summary of SVOC detections, exceedances, and minimum, mean and maximum concentrations for the surface soil samples. The SCG for benzo (a) anthracene (224 μg/kg) was exceeded in fourteen of the fifteen samples at concentrations ranging from 700 μg/kg (SS-4) to 79,000 μg/kg (SS-3). The SCG for benzo (b) fluoranthene (1,100 μg/kg) was exceeded in fourteen of the fifteen samples at concentrations ranging from 1,200 μg/kg (SS-4) to 110,000 μg/kg (SS-3). The SCG for benzo (k) fluoranthene (1,100 μg/kg) was exceeded in seven of the fifteen samples at concentrations ranging from 1,400 μg/kg (SS-9) to 33,000 μg/kg (SS-3). The SCG for benzo (a) pyrene (61 μg/kg) was exceeded in each of the fifteen samples at concentrations ranging from 150 μg/kg (SS-2) to 76,000 μg/kg (SS-3). The SCG for chrysene (400 μg/kg) was exceeded in fourteen of the fifteen samples at concentrations ranging from 760 μg/kg (SS-4) to 75,000 μg/kg (SS-3). The SCG for dibenzo (a,h) anthracene (14 μg/kg) was exceeded in fourteen of the fifteen samples at concentrations ranging from 73 μg/kg (SS-8) to 1,400 μg/kg (SS-3). The SCG for fluoranthene (50,000 μg/kg) was exceeded in one surface soil sample (SS-3) at a concentration of 200,000 μg/kg. The SCG for indeno (1,2,3-cd) pyrene (3,200 μg/kg) was exceeded in two of the fifteen samples at concentrations of 38,000 μg/kg (SS-3) and 4,400 μg/kg (SS-11). The SCG for phenanthrene (50,000 μg/kg) was exceeded in one of the fifteen samples at a concentration of 100,000 μg/kg (SS-3). The SCG for phenol



SS-1	6/6/03
SVOCs	NE
aluminum	8,570
beryllium	0.38
chromium	14.3
magnesium	7,110
nickel	18.6
potassium	1,610
sodium	183

SS-2	6/6/03
SVOCs	NE
aluminum	7,910
magnesium	10,700
potassium	1,500
sodium	147

SS-5	6/6/03
SVOCs	NE
aluminum	8,530
beryllium	0.42
chromium	12.4
magnesium	7,470
mercury	0.14
potassium	1,980
sodium	216

SS-14	6/1/05
SVOCs	NE
mercury	0.21
sodium	108
thallium	1.0

SS-6	6/6/03
SVOCs	NE
chromium	18.0
copper	137
iron	25,600
lead	254
magnesium	4,770
mercury	0.63
nickel	24.4
potassium	1,080
sodium	227
zinc	243

SS-15	6/1/05
SVOCs	NE
chromium	14.0
lead	413
mercury	0.35
nickel	20.0
sodium	110
thallium	0.84
zinc	177

SS-11	6/1/05
phenol	360 J
bnz(a)anth	16,000
chrysene	13,000
bnz(b)fluor	20,000
bnz(k)fluor	7,300
bnz(a)pyr	13,000
indeno	4,400
dbnzo(a,h)	1,300
mercury	0.11
nickel	19.4
sodium	90.1
thallium	0.91
zinc	184

SS-3	6/6/03
phenanthrene	100,000
fluoranthrene	200,000
pyrene	170,000
bnz(a)anth	79,000
chrysene	75,000
bnz(b)fluor	110,000
bnz(k)fluor	33,000 J
bnz(a)pyr	76,000
indeno	38,000 J
dbnzo(a,h)	1,400
cadmium	1.4
calcium	152,000
chromium	13.9
copper	198
lead	501
mercury	0.19
nickel	39.9
sodium	159
zinc	315

SS-12	6/1/05
SVOCs	NE
lead	980
mercury	8.9
zinc	162

SS-9	6/1/05
SVOCs	NE
copper	397
lead	674
mercury	1.1
nickel	22.9
zinc	280

SS-4	6/6/03
SVOCs	NE
aluminum	7,840
beryllium	0.38
magnesium	7,700
potassium	1,640
sodium	159

SS-7	6/6/03
SVOCs	NE
magnesium	6,640
potassium	1,380
sodium	147

SS-13	6/1/05
dbnzo(a,h)	330 J
lead	1,290
mercury	0.48
sodium	105
thallium	1.3
zinc	177

SS-8	6/6/03
bnz(a)anth	5,200
chrysene	5,600
bnz(b)fluor	9,700
bnz(k)fluor	3,200
bnz(a)pyr	6,700
chromium	12.7
lead	857
magnesium	4,710
manganese	757
mercury	0.59
nickel	18.0
potassium	1,220
sodium	187
zinc	212

SS-10	6/1/05
phenol	120 J
bnz(a)anth	7,200
chrysene	5,600
bnz(b)fluor	7,700
bnz(k)fluor	4,700
bnz(a)pyr	5,100
dbnzo(a,h)	500
lead	176
mercury	0.38
nickel	23.8
sodium	140

LEGEND

SS-5 SURFACE SOIL SAMPLE LOCATION
SS-5 (BSS = BACKGROUND SURFACE SOIL LOCATION)

SITE BOUNDARY

ABBREV:	ANALYTE	SCG	UNITS
phenol	phenol	30	ug/kg
phenanthrene	phenanthrene	50,000	ug/kg
fluoranthrene	fluoranthrene	50,000	ug/kg
pyrene	pyrene	50,000	ug/kg
bnz(a)anth	benzo(a)anthracene	224	ug/kg
chrysene	chrysene	400	ug/kg
bnz(b)fluor	benzo(b)fluoranthene	1,100	ug/kg
bnz(k)fluor	benzo(k)fluoranthene	1,100	ug/kg
bnz(a)pyr	benzo(a)pyrene	61	ug/kg
indeno	indeno(1,2,3-c,d)pyrene	3,200	ug/kg
dbnzo(a,h)	dibenzo(a,h)anthracene	14	ug/kg
aluminum	aluminum	SB (6,620)	mg/kg
beryllium	beryllium	0.16/SB (0.36)	mg/kg
cadmium	cadmium	1/SB (13)	mg/kg
calcium	calcium	SB (73,100)	mg/kg
chromium	chromium	10/SB (13)	mg/kg
copper	copper	25/SB (129)	mg/kg
iron	iron	2,000/SB (22,200)	mg/kg
lead	lead	SB (173)	mg/kg
magnesium	magnesium	SB (4,460)	mg/kg
manganese	manganese	SB (712)	mg/kg
mercury	mercury	0.1	mg/kg
nickel	nickel	13/SB (17.8)	mg/kg
potassium	potassium	SB (788)	mg/kg
sodium	sodium	SB (78.4)	mg/kg
thallium	thallium	SB (0.69)	mg/kg
zinc	zinc	20/SB (145)	mg/kg

SVOC exceedances based on exceedance of TAGM 4046 and background sample data

J = estimated concentration

26-28 WHITESBORO STREET
UTICA, NEW YORK

EXCEEDANCES IN SURFACE SOIL

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 4-1

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TABLE 4-1
SUMMARY OF SVOC DATA FOR SURFACE SOIL
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

Analyte	Recommended Soil Clean-Up Objective* (ug/kg)	SITE SURFACE SOIL DATA 15 soil samples						BACKGROUND SURFACE SOIL DATA 5 soil samples					
		number of detects	exceedances number	exceedances percent	min (ug/kg)	mean (ug/kg)	max (ug/kg)	number of detects	exceedances number	exceedances percent	min (ug/kg)	mean (ug/kg)	max (ug/kg)
Phenol	30 OR MDL	2	2	13	120	240	360	1	1	20	40	40	40
Phenanthrene	50,000	15	1	7	82	10,395	100,000	5	0	0	190	1,350	3,000
Fluoranthene	50,000	15	1	7	270	19,698	200,000	5	0	0	420	2,588	5,900
Pyrene	50,000	15	1	7	240	17,109	170,000	5	0	0	370	2,818	8,100
Benzo (a) anthracene	224 OR MDL	15	14	93	160	8,237	79,000	5	5	100	250	1,462	4,200
Chrysene	400	15	14	93	160	7,651	75,000	5	4	80	280	1,664	5,100
Benzo(b)fluoranthene	1,100	15	14	93	260	11,611	110,000	5	3	60	320	2,232	6,800
Benzo(k)fluoranthene	1,100	15	7	47	81	3,893	33,000	5	1	20	180	964	2,800
Benzo(a)pyrene	61 OR MDL	15	15	100	150	7,794	76,000	5	5	100	250	1,234	3,400
Indeno(1,2,3-cd)pyrene	3,200	15	2	13	85	3,361	38,000	5	0	0	160	376	910
Dibenzo(a,h)anthracene	14 OR MDL	14	14	93	73	370	1,400	4	4	80	53	139	320
Total Carcinogen PAHs	10,000	15	7	47	903	42,892	412,400	5	1	20	1,440	8,043	23,530
Total SVOCs	500,000	15	1	7	1,705	99,533	975,620	5	0	0	2,695	16,491	43,599

Notes:

*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

- only those analytes that exceeded Recommended Soil Cleanup Objectives are included.

(30 μg/kg) was exceeded in two of the fifteen samples at concentrations of 120 μg/kg (SS-10) and 360 μg/kg (SS-11). The SCG for pyrene (50,000 μg/kg) was exceeded in one surface soil sample (SS-3) at a concentration of 170,000 μg/kg.

Seven SVOCs were detected above SCGs in the background surface soil samples that were collected from off-site locations. The SCG for benzo (a) anthracene (224 μg/kg) was exceeded in each the five background samples at concentrations ranging from 250 μg/kg (BSS-1) to 4,200 μg/kg (BSS-5). The SCG for benzo (b) fluoranthene (1,100 μg/kg) was exceeded in three of the five background samples at concentrations ranging from 1,200 μg/kg (BSS-3) to 6,800 μg/kg (BSS-5). The SCG for benzo (k) fluoranthene (1,100 μg/kg) was exceeded in one background sample at a concentration of 2,800 μg/kg (BSS-5). The SCG for benzo (a) pyrene (61 μg/kg) was exceeded in each of the five background samples at concentrations ranging from 250 μg/kg (BSS-1) to 3,400 μg/kg (BSS-5). The SCG for chrysene (400 μg/kg) was exceeded in four of the five background samples at concentrations ranging from 460 μg/kg (BSS-2) to 5,100 μg/kg (BSS-5). The SCG for dibenzo (a,h) anthracene (14 μg/kg) was exceeded in four of the five background samples at concentrations ranging from 53 μg/kg (BSS-2) to 320 μg/kg (BSS-5). The SCG for phenol (30 μg/kg) was exceeded in one background soil sample (BSS-5) at a concentration of 40 μg/kg.

There were no pesticides, PCBs or cyanide detected above SCGs in the June 2003 surface soil samples. The pesticide, PCB and cyanide results are presented in Appendix E, Tables 1b and 1c.

SCGs were exceeded in metals analyses for aluminum, beryllium, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, thallium and zinc in at least one of the fifteen soil samples that were collected and analyzed during the June 2003 and June 2005 sampling events. The metal results are presented in Appendix E, Tables 1c and 2b. The SCGs provided in TAGM 4046 for several of the inorganic analytes (e.g., aluminum, beryllium, cadmium, calcium, chromium, copper, iron, magnesium, manganese, nickel, potassium, sodium, thallium and zinc) are either specific values or site

background values. Five background surface soil samples were collected from off-site locations and analytical data from those samples was utilized to evaluate the data. Table 4-2 presents a summary of metals detections, exceedances, and minimum, mean and maximum concentrations for the surface soil samples.

Aluminum was detected above the SCG (6,620 mg/kg) in four of the samples at concentrations ranging from 7,840 mg/kg (SS-4) to 8,570 mg/kg (SS-1). Beryllium was detected above the SCG (0.36 mg/kg) in three of the samples at concentrations ranging from 0.38 mg/kg (SS-1 and SS-4) to 0.42 mg/kg (SS-5). Cadmium was detected above the SCG (1.3 mg/kg) in one sample at a concentration of 1.4 mg/kg (SS-3). Calcium was detected above the SCG (73,100 mg/kg) in one sample at a concentration of 152,000 mg/kg (SS-3). Chromium was detected above the SCG (11.7 mg/kg) in six of the samples at concentrations ranging from 12.4 mg/kg (SS-5) to 18.0 mg/kg (SS-6). Copper was detected above the SCG (129 mg/kg) in three of the samples at concentrations ranging from 137 mg/kg (SS-6) to 397 mg/kg (SS-9). Iron was detected above the SCG (22,200 mg/kg) in one sample at a concentration of 25,600 mg/kg (SS-6). Lead was detected above the SCG (173 mg/kg) in eight of the samples at concentrations ranging from 176 mg/kg (SS-10) to 1,290 mg/kg (SS-13). Magnesium was detected above the SCG (4,460 mg/kg) in seven of the samples at concentrations ranging from 4,710 mg/kg (SS-8) to 10,700 mg/kg (SS-2). Manganese was detected above the SCG (712 mg/kg) in one sample at a concentration of 757 mg/kg (SS-8). Mercury was detected above the SCG (0.1 mg/kg) in eleven of the samples at concentrations ranging from 0.11 mg/kg (SS-11) to 8.9 mg/kg (SS-12). Nickel was detected above the SCG (17.8 mg/kg) in eight of the samples at concentrations ranging from 18.0 mg/kg (SS-8) to 39.9 mg/kg (SS-3). Potassium was detected above the SCG (788 mg/kg) in seven of the samples at concentrations ranging from 1,080 mg/kg (SS-6) to 1,980 mg/kg (SS-5). Sodium was detected above the SCG (78.4 mg/kg) in thirteen of the samples at concentrations ranging from 90.1 mg/kg (SS-11) to 227 mg/kg (SS-6). Thallium was detected above the SCG (0.69 mg/kg) in four of the samples at concentrations ranging from 0.84 mg/kg (SS-15) to 1.3 mg/kg (SS-13). Zinc was detected above the SCG (145 mg/kg) in eight of the samples at concentrations ranging from 162 mg/kg (SS-12) to 315 mg/kg (SS-3).

TABLE 4-2
SUMMARY OF METALS DATA FOR SURFACE SOIL
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

	Recommended Soil Clean-Up Objective* (mg/kg)	SITE SURFACE SOIL DATA 15 soil samples						BACKGROUND SURFACE SOIL DATA 5 soil samples			
		number of detects	exceedances number	exceedances percent	min (mg/kg)	max (mg/kg)	aver (mg/kg)	number of detects	min (mg/kg)	max (mg/kg)	aver (mg/kg)
Aluminum	SB (6,620)	15	4	27	1,650	8,570	5,407	5	1,760	6,620	4,072
Antimony	SB (1.5)	6	0	0	0.073	0.61	0.28	4	0.097	1.5	0.48
Arsenic	7.5 or SB (18)	15	0	0	2.0	9.3	5.5	5	2.1	18	7.8
Barium	300 or SB (82.8)	15	0	0	39.6	288	139.3	5	16.5	82.8	49.4
Beryllium	0.16 or SB (0.36)	15	3	20	0.08	0.42	0.27	5	0.097	0.36	0.227
Cadmium	1 or SB (1.3)	9	1	7	0.16	1.4	0.72	5	0.19	1.3	0.558
Calcium	SB (73,100)	15	1	7	18,100	152,000	42,907	5	2,870	73,100	24,174
Chromium	10 or SB (11.7)	15	6	40	4.5	18.0	10.6	5	4	11.7	7.4
Cobalt	30 or SB (6.4)	15	0	0	1.5	8.0	5.1	5	1.5	6.4	3.9
Copper	25 or SB (129)	15	3	20	9.1	397	72.8	5	10.1	129	48.0
Iron	2,000 or SB (22,200)	15	1	7	3,990	25,600	13,517	5	4,740	22,200	11,944
Lead	SB (173)	15	8	53	11.2	1,290	392	5	52.1	173	93.4
Magnesium	SB (4,460)	15	7	47	1,240	10,700	4,824	5	961	4,460	2,396
Manganese	SB (712)	15	1	7	116	757	399	5	107	712	373
Mercury	0.1	13	11	73	0.063	8.9	1.02	5	0.068	0.39	0.18
Nickel	13 or SB (17.8)	15	8	53	4.4	39.9	18.24	5	5	17.8	11.3
Potassium	SB (788)	15	7	47	294	1,980	983	5	236	788	459
Selenium	2 or SB (0.32)	8	0	0	0.21	0.96	0.59	1	0.32	0.32	0.3
Silver	SB (0.036)	0	0	0	ND	ND	ND	1	0.036	0.036	0.036
Sodium	SB (78.4)	15	13	87	53.3	227	140	5	33.1	78.4	58
Thallium	SB (0.69)	6	4	27	0.19	1.3	0.80	2	0.65	0.69	0.67
Vanadium	150 or SB (15.6)	15	0	0	5.8	21.9	15.4	5	4.9	15.6	10.9
Zinc	20 or SB (145)	15	8	53	42.7	315	156	5	40.5	145	80

Notes:
*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

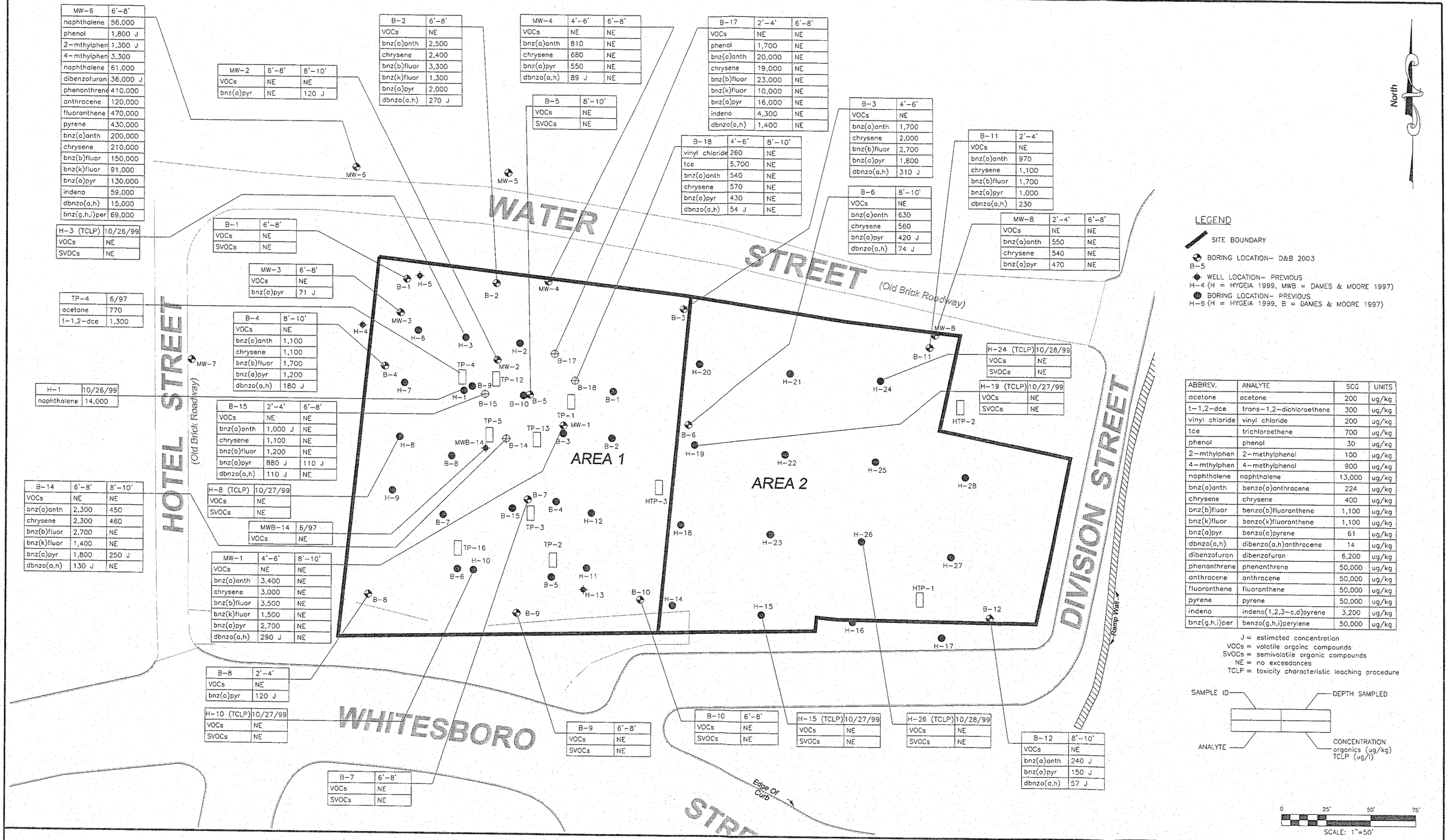
4.3 Subsurface Soil Sample Results

Thirty subsurface soil samples were evaluated by laboratory analyses for TCL VOCs and TCL SVOCs. Twelve subsurface soil samples were evaluated by laboratory analyses for TCL pesticides, TCL PCBs, TAL metals and cyanide. Figure 4-2 summarizes exceedances of SCGs in surface soil for VOCs and SVOCs based on laboratory data from the SI and previous investigations. Figure 4-3 summarizes exceedances of metals based on laboratory data.

Two VOCs were detected above SCGs in one of the twenty-nine subsurface soil samples that were collected from on-site locations. The VOC results for subsurface soil samples are presented in Appendix E, Tables 3a and 4a. The SCG for trichloroethene (700 μg/kg) was exceeded in one sample at a concentration of 5,700 μg/kg (B-18). The SCG for vinyl chloride (200 μg/kg) was exceeded in one sample at a concentration of 260 μg/kg (B-18).

One VOC was detected above SCGs in one subsurface soil sample that was collected from an off-site location. The SCG for naphthalene (13,00 μg/kg) was exceeded in one sample from an off-site location at a concentration of 56,000 μg/kg (MW-6).

Seventeen SVOCs were detected above SCGs in the subsurface soil samples that were collected from the site. The SVOC results for subsurface soil samples are presented in Appendix E, Tables 3b and 4b. Table 4-3 presents a summary of SVOC detections, exceedances, and minimum, mean and maximum concentrations for the subsurface soil samples. The SCG for anthracene (50,000 μg/kg) was exceeded in one sample at a concentration of 120,000 μg/kg (B-14). The SCG for benzo (a) anthracene (224 μg/kg) was exceeded in fifteen samples at concentrations ranging from 240 μg/kg (B-12) to 200,000 μg/kg (B-14). The SCG for benzo (b) fluoranthene (1,100 μg/kg) was exceeded in nine samples at concentrations ranging from 1,200 μg/kg (B-15) to 150,000 μg/kg (MW-6). The SCG for benzo (k) fluoranthene (1,100 μg/kg) was exceeded in five samples at concentrations ranging from 1,300 μg/kg (B-2) to 91,000 μg/kg (MW-6). The SCG for benzo (a) pyrene (61 μg/kg) was exceeded in nineteen samples at concentrations ranging from 71 μg/kg (B-4) to 130,000 μg/kg (MW-6). The SCG for benzo



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26-28 WHITESBORO STREET
UTICA, NEW YORK

EXCEEDANCES IN SUBSURFACE SOIL - ORGANICS

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FIGURE 4-2

B-2	6'-8'
aluminum	9,700
beryllium	0.43
chromium	13.3
iron	22,400
magnesium	6,070
manganese	1,170
mercury	0.36
nickel	18.1
potassium	1,890
sodium	138

B-5	8'-10'
aluminum	7,090
potassium	1,290
sodium	114

B-3	4'-6'
aluminum	6,670
magnesium	6,060
manganese	725
mercury	0.42
potassium	1,180
sodium	124

B-6	8'-10'
aluminum	6,990
antimony	1.8
mercury	0.33
potassium	1,380
sodium	91.2

B-11	2'-4'
beryllium	0.40
mercury	0.30
potassium	928
sodium	199

B-1	6'-8'
antimony	3.1
barium	884
cadmium	1.4
chromium	55.4
copper	180
lead	314
mercury	0.16
nickel	73.5
potassium	820
selenium	2.1
sodium	255
zinc	639

B-4	8'-10'
chromium	27.8
mercury	12.4
nickel	551
potassium	1,080
sodium	93.4

B-8	2'-4'
aluminum	10,000
beryllium	0.44
chromium	13.2
iron	25,700
manganese	1,280
mercury	0.22
nickel	20.1
potassium	1,170
sodium	79.8

B-7	6'-8'
aluminum	6,680
magnesium	9,680
mercury	0.18
potassium	1,390
sodium	155

B-9	6'-8'
aluminum	9,930
beryllium	0.45
chromium	14.0
iron	27,000
nickel	17.9
potassium	1,070
sodium	81.0

B-10	6'-8'
potassium	960

B-12	8'-10'
aluminum	8,820
chromium	14.7
iron	26,900
potassium	1,420
sodium	370

LEGEND

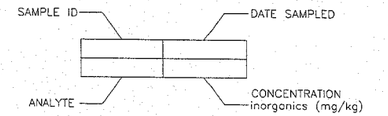
SITE BOUNDARY

BORING LOCATION- D&B 2003
B-5

WELL LOCATION- PREVIOUS
H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997)

BORING LOCATION- PREVIOUS
H-6 (H = HYGEIA 1999, B = DAMES & MOORE 1997)

ABBREV.	ANALYTE	SCG	UNITS
aluminum	aluminum	SB (6,620)	mg/kg
antimony	antimony	SB (1.5)	mg/kg
barium	barium	300/SB(82.8)	mg/kg
beryllium	beryllium	0.16/SB(0.36)	mg/kg
cadmium	cadmium	1/SB(1.3)	mg/kg
chromium	chromium	10/SB(11.7)	mg/kg
copper	copper	25/SB(129)	mg/kg
iron	iron	2,000/SB(22,200)	mg/kg
lead	lead	SB (173)	mg/kg
magnesium	magnesium	SB (4,460)	mg/kg
manganese	manganese	SB (712)	mg/kg
mercury	mercury	0.1	mg/kg
nickel	nickel	13/SB(17.8)	mg/kg
potassium	potassium	SB (788)	mg/kg
selenium	selenium	2/SB(0.32)	mg/kg
sodium	sodium	SB (78.4)	mg/kg
zinc	zinc	20/SB	mg/kg



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SCALE: 1"=50'

26-28 WHITESBORO STREET
UTICA, NEW YORK

EXCEEDANCES IN SUBSURFACE SOIL - METALS

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FIGURE 4-3

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TABLE 4-3
SUMMARY OF SVOC DATA FOR SUBSURFACE SOIL
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

Analyte	Recommended Soil Clean-Up Objective* (ug/kg)	SITE SUBSURFACE SOIL DATA 30 soil samples					
		number of detects	exceedances		min (ug/kg)	mean (ug/kg)	max (ug/kg)
			number	percent			
Phenol	30 OR MDL	2	2	7	1,700	1,750	1,800
2-Methylphenol	100 OR MDL	1	1	3	1,300	1,300	1,300
4-Methylphenol	900	4	1	3	46	874	3,300
Naphthalene	13,000	11	1	3	50	5,978	61,000
Dibenzofuran	6,200	13	1	3	61	3,110	36,000
Phenanthrene	50,000	22	1	3	45	21,735	410,000
Anthracene	50,000	15	1	3	53	8,863	120,000
Fluoranthene	50,000	23	1	3	57	24,039	470,000
Pyrene	50,000	23	1	3	45	21,861	430,000
Benzo (a) anthracene	224 OR MDL	22	15	50	58	10,768	200,000
Chrysene	400	22	14	47	57	11,170	210,000
Benzo(b)fluoranthene	1,100	22	9	30	54	8,816	150,000
Benzo(k)fluoranthene	1,100	22	5	17	28	4,981	91,000
Benzo(a)pyrene	61 OR MDL	22	19	63	44	7,283	130,000
Indeno(1,2,3-cd)pyrene	3,200	19	2	7	41	3,648	59,000
Dibenzo(a,h)anthracene	14 OR MDL	13	13	43	54	1,400	15,000
Benzo(g,h,i)perylene	50,000	19	1	3	46	4,159	69,000
Total Carcinogen PAHs	10,000	30	6	20	0	34,463	855,000
Total SVOCs	500,000	30	1	3	45	103,737	2,636,400

Notes:

*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

- only those analytes that exceeded Recommended Soil Cleanup Objectives are included.

(g,h,i) perylene (50,000 μg/kg) was exceeded in one sample at a concentration of 69,000 μg/kg (MW-6). The SCG for chrysene (400 μg/kg) was exceeded in fourteen samples at concentrations ranging from 460 μg/kg (B-14) to 210,000 μg/kg (MW-6). The SCG for dibenzo (a,h) anthracene (14 μg/kg) was exceeded in thirteen samples at concentrations ranging from 47 μg/kg (B-15) to 15,000 μg/kg (MW-6). The SCG for dibenzofuran (6,200 μg/kg) was exceeded in one sample at a concentration of 36,000 μg/kg (MW-6). The SCG for fluoranthene (50,000 μg/kg) was exceeded in one sample at a concentration of 470,000 μg/kg (MW-6). The SCG for indeno (1,2,3-cd) pyrene (3,200 μg/kg) was exceeded in two samples at concentrations ranging from 4,300 μg/kg (B-17) to 59,000 μg/kg (MW-6). The SCG for 2-methylphenol (100 μg/kg) was exceeded in one sample at a concentration of 1,300 μg/kg (MW-6). The SCG for 4-methylphenol (900 μg/kg) was exceeded in one sample at a concentration of 3,300 μg/kg (MW-6). The SCG for naphthalene (13,000 μg/kg) was exceeded in one sample at a concentration of 61,000 μg/kg (MW-6). The SCG for phenanthrene (1,000 μg/kg) was exceeded in one sample at a concentration of 410,000 μg/kg (MW-6). The SCG for phenol (30 μg/kg) was exceeded in two samples at concentrations ranging from 1,700 μg/kg (B-17) to 1,800 μg/kg (MW-6). The SCG for pyrene (50,000 μg/kg) was exceeded in one sample at a concentration of 430,000 μg/kg (MW-6).

There were no pesticides, PCBs or cyanide detected above SCGs in the subsurface soil samples.

SCGs were exceeded in metals analyses for aluminum, antimony, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, sodium and zinc in at least one of the 12 soil samples that were collected and analyzed during the June 2003 sampling event. The metal results for subsurface soil samples are presented in Appendix E, Table 3c. The SCGs provided in TAGM 4046 for several analytes (aluminum, antimony, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium and zinc) are either specific values or site background values. In these instances, site-specific background values were used as the SCG. Table 4-4 presents a summary of metals detections, exceedances, and minimum, mean and

TABLE 4-4
SUMMARY OF METALS DATA FOR SUBSURFACE SOIL
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

	Recommended Soil Clean-Up Objective* (mg/kg)	SITE SUBSURFACE SOIL DATA 12 soil samples						BACKGROUND SURFACE SOIL DATA 5 soil samples			
		number of detects	exceedances number	exceedances percent	min (mg/kg)	max (mg/kg)	aver (mg/kg)	number of detects	min (mg/kg)	max (mg/kg)	aver (mg/kg)
Aluminum	SB (6,620)	12	8	67	3,900	10,000	7,140	5	1,760	6,620	4,072
Antimony	SB (1.5)	5	2	17	0.78	3.1	1.49	4	0.097	1.5	0.48
Arsenic	7.5 or SB (18)	12	0	0	3.0	16.7	6.9	5	2.1	18	7.8
Barium	300 or SB (82.8)	12	1	8	15.3	884	122	5	16.5	82.8	49.4
Beryllium	0.16 or SB (0.36)	12	4	33	0.16	0.45	0.32	5	0.097	0.36	0.227
Cadmium	1 or SB (1.3)	1	1	8	1.4	1.4	1.4	5	0.19	1.3	0.558
Calcium	SB (73,100)	12	0	0	741	51,400	17,630	5	2,870	73,100	24,174
Chromium	10 or SB (11.7)	12	6	50	7.7	55.4	16.2	5	4	11.7	7.4
Cobalt	30 or SB (6.4)	12	0	0	3.8	9.3	6.2	5	1.5	6.4	3.9
Copper	25 or SB (129)	12	1	8	20.7	180	44.7	5	10.1	129	48.0
Iron	2,000 or SB (22,200)	12	4	33	10,300	27,000	18,917	5	4,740	22,200	11,944
Lead	SB (173)	12	1	8	7.1	314	59.0	5	52.1	173	93.4
Magnesium	SB (4,460)	12	3	25	1,880	9,680	3,867	5	961	4,460	2,396
Manganese	SB (712)	12	3	25	94	1,290	554	5	107	712	373
Mercury	0.1	8	8	67	0.16	12.4	1.80	5	0.068	0.39	0.18
Nickel	13 or SB (17.8)	12	5	42	10.8	551	64.7	5	5	17.8	11.3
Potassium	SB (788)	12	12	100	820	1,890	1,212	5	236	788	459
Selenium	2 or SB (0.32)	6	1	8	0.66	2.1	1.1	1	0.32	0.32	0.3
Silver	SB (0.036)	0	0	0	ND	ND	ND	1	0.036	0.036	0.036
Sodium	SB (78.4)	12	11	92	68.6	370	147	5	33.1	78.4	58
Thallium	SB (0.69)	0	0	0	ND	ND	ND	2	0.65	0.69	0.67
Vanadium	150 or SB (15.6)	12	0	0	11.4	26.8	17.7	5	4.9	15.6	10.9
Zinc	20 or SB (145)	12	1	8	46.1	639	118	5	40.5	145	80

Notes:
*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

maximum concentrations for the subsurface soil samples.

Aluminum was detected above the SCG (6,620 mg/kg) in eight of the samples at concentrations ranging from 6,670 mg/kg (B-3) to 10,000 mg/kg (B-8). Antimony was detected above the SCG (1.5 mg/kg) in two of the samples at concentrations of 3.1 mg/kg (B-1) and 1.8 mg/kg (B-6). Barium was detected above the SCG (300 mg/kg) in one of the samples at a concentration of 884 mg/kg (B-1). Beryllium was detected above the SCG (0.36 mg/kg) in four of the samples at concentrations ranging from 0.40 mg/kg (B-11) to 0.45 mg/kg (B-9). Cadmium was detected above the SCG (1.3 mg/kg) in one of the samples at a concentration of 1.4 mg/kg (B-1). Chromium was detected above the SCG (11.7 mg/kg) in six of the samples at concentrations ranging from 13.2 mg/kg (B-8) to 55.4 mg/kg (B-1). Copper was detected above the SCG (129 mg/kg) in one of the samples at a concentration of 180 mg/kg (B-1). Iron was detected above the SCG (22,200 mg/kg) in four of the samples at concentrations ranging from 22,400 mg/kg (B-2) to 27,000 mg/kg (B-9). Lead was detected above the SCG (173 mg/kg) in one of the samples at a concentration of 314 mg/kg (B-1). Magnesium was detected above the SCG (4,460 mg/kg) in three of the samples at concentrations ranging from 6,060 mg/kg (B-3) to 9,680 mg/kg (B-7). Manganese was detected above the SCG (712 mg/kg) in three of the samples at concentrations ranging from 725 mg/kg (B-3) to 1,290 mg/kg (B-8). Mercury was detected above the SCG (0.1 mg/kg) in eight of the samples at concentrations ranging from 0.16 mg/kg (B-1) to 12.4 mg/kg (B-4). Nickel was detected above the SCG (25 mg/kg) in five of the samples at concentrations ranging from 17.9 mg/kg (B-9) to 551 mg/kg (B-4). Potassium was detected above the SCG (788 mg/kg) in twelve of the samples at concentrations ranging from 820 mg/kg (B-1) to 1,890 mg/kg (B-2). Selenium was detected above the SCG (2 mg/kg) in one of the samples at a concentration of 2.1 mg/kg (B-1). Sodium was detected above the SCG (78.4 mg/kg) in eleven of the samples at concentrations ranging from 79.8 mg/kg (B-8) to 370 mg/kg (B-12). Zinc was detected above the SCG (50 mg/kg) in one of the samples at a concentration of 639 mg/kg (B-1).

4.4 Groundwater Sample Results

One round of groundwater samples was collected from the 12 temporary monitoring wells at the site in June 2003. Each of these samples was analyzed for TCL VOCs and TCL SVOCs. In addition, five of these samples were analyzed for TAL metals. Two rounds of groundwater samples was collected from the eight permanent monitoring wells, which include five on-site and three off-site wells, in June 2005 and July 2006. Samples collected in June 2005 were analyzed for TCL VOCs and TAL metals (filtered and unfiltered). Samples collected in July 2006 were analyzed for TAL metals (filtered and unfiltered). Figure 4-4 depicts monitoring well locations and summarizes exceedances of SCGs in groundwater.

Four VOCs were detected above SCGs in the groundwater samples collected from on-site locations. The VOC results for groundwater samples are presented in Appendix E, Tables 5a and 6a. The SCG for cis-1,2-dichloroethene (5 μg/l) was exceeded in three samples at concentrations ranging from 7 μg/l (B-1) to 200 μg/l (MW-2). The SCG for toluene (5 μg/l) was exceeded in one sample at a concentration of 10 μg/l (MW-2). The SCG for trichloroethene (5 μg/l) was exceeded in five samples at concentrations ranging from 7 μg/l (B-7) to 120 μg/l (MW-2). The SCG for vinyl chloride (2 μg/l) was exceeded in one sample at a concentration of 5 μg/l (MW-2).

Ten VOCs were detected above SCGs in the groundwater samples collected from off-site locations. The VOC results for off-site groundwater samples are presented in Appendix E, Table 6a. The SCG for benzene (1 μg/l) was exceeded in three samples at concentrations ranging from 11 μg/l (MW-7) to 43 μg/l (MW-6). The SCG for ethyl benzene (5 μg/l) was exceeded in one sample at a concentration of 73 μg/l (MW-6). The SCG for isopropylbenzene (5 μg/l) was exceeded in one sample at a concentration of 21 μg/l (MW-6). The SCG for naphthalene (10 μg/l) was exceeded in one sample at a concentration of 1,100 μg/l (MW-6). The SCG for n-propylbenzene (5 μg/l) was exceeded in one sample at a concentration of 7 μg/l (MW-6). The SCG for toluene (5 μg/l) was exceeded in two samples at concentrations ranging from 8 μg/l (MW-5) to 23 μg/l (MW-6). The SCG for 1,3,5-trimethylbenzene (5 μg/l) was exceeded in one sample at a concentration of 29 μg/l (MW-6). The SCG for 1,2,4-trimethylbenzene (5 μg/l) was

MW-6	6/6/05	7/5/06
benzene	43	NS
toluene	23	NS
ethylbenzene	73	NS
m,p-xylenes	14	NS
o-xylene	53	NS
isopropylbenz	21	NS
n-propylbenz	7	NS
1,3,5-trimet	29	NS
1,2,4-trimet	120	NS
naphthalene	1,100	NS
antimony	2.5	3.5
iron	391	469
manganese	2,660	1,290
sodium	36,300	18,900
thallium	7.1	5.5

B-2	6/10/03
tce	12
SVOCs	NE
METALS	NS

MW-5	6/6/05	7/5/06
benzene	18	NS
toluene	8	NS
iron	898	7,380
manganese	913	1,180
sodium	24,700	35,400
thallium	3.5	5.2

MW-2	6/6/05	7/5/06
vinyl chloride	5	NS
cis-1,2-dce	200	NS
tce	120	NS
toluene	10	NS
magnesium	36,000	38,800
sodium	99,700	55,600
thallium	8.5	ND

MW-4	6/6/05	7/5/06
VOCs	NE	NS
magnesium	60,500	100,000
manganese	2,690	37.9
sodium	65,500	52,100
thallium	5.3	ND

B-3	6/10/03
cis-1,2-dce	9 J
SVOCs	NE
arsenic	62.0
chromium	50.2
iron	608,000
lead	88.3
manganese	3,230
sodium	34,000

B-5	6/10/03
tce	26
SVOCs	NE
METALS	NS

MW-8	6/6/05	7/5/06
VOCs	NE	NS
manganese	747	229
selenium	11.3	3.9
sodium	48,000	34,900
thallium	7.8	2.3

H-5	10/28/99
n-butylbenz	230
naphthalene	1,700
SVOCs	NE

B-1	6/10/03
cis-1,2-dce	7 J
tce	25
bnz(a)anth	6 J
chrysene	6 J
bnz(b)fluor	6 J
bnz(k)fluor	3 J
bnz(a)pyr	4 J
indeno	3 J
antimony	65.1
arsenic	425
barium	6,430
beryllium	20.9
cadmium	33.0
chromium	2,600
copper	3,570
iron	1,020,000
lead	2,250
magnesium	169,00
manganese	93,000
mercury	1.8
nickel	3,810
sodium	323,000
zinc	7,680

H-4	10/28/99
VOCs	NE
SVOCs	NE

MW-3	6/6/05
VOCs	NE
chromium	171
iron	31,300
lead	27.5
magnesium	37,500
manganese	1,760
nickel	295
sodium	287,000
thallium	8.3

MW-1	6/6/05	7/5/06
VOCs	NE	NS
antimony	ND	9.5
magnesium	44,500	74,000
sodium	174,000	90,000
thallium	8.3	ND

B-4	6/10/03
VOCs	NE
SVOCs	NE
METALS	NS

MW-7	6/6/05	7/5/06
benzene	11	NS
manganese	1,360	27.6
sodium	108,000	17,400
thallium	8.4	1.7

B-11	6/10/03
VOCs	NE
SVOCs	NE
antimony	3.1
arsenic	351
barium	2,330
beryllium	15.9
cadmium	28.1
chromium	169
copper	1,750
iron	345,000
lead	1,380
magnesium	72,000
manganese	29,800
mercury	8.6
nickel	444
selenium	72.7
sodium	97,000

B-8	6/10/03
VOCs	NE
SVOCs	NE
METALS	NS

MWB-14	6/30/97
VOCs	NE
SVOCs	NE
METALS	NE

B-6	6/10/03
VOCs	NE
SVOCs	NE
METALS	NS

B-9	6/10/03
VOCs	NE
SVOCs	NE
METALS	NS

B-10	6/10/03
VOCs	NE
SVOCs	NE
arsenic	417
barium	3,100
beryllium	17.7
cadmium	19.9
chromium	288
copper	1,950
iron	1,020,000
lead	644
magnesium	113,000
manganese	95,900
mercury	1.2
nickel	569
sodium	394,000
zinc	2,640

B-12	6/10/03
VOCs	NE
SVOCs	NE
antimony	6.9
arsenic	618
barium	3,600
beryllium	27.7
cadmium	47.8
chromium	822
copper	4,190
iron	2,170,000
lead	1,730
magnesium	273,000
manganese	24,100
mercury	3.9
nickel	1,150
sodium	541,000
zinc	5,330

B-7	6/10/03
tce	7 J
chrysene	1 J
METALS	NS

H-13	10/28/99
VOCs	NE
SVOCs	NE

WATER STREET (Old Brick Roadway)

HOTEL STREET (Old Brick Roadway)

DIVISION STREET

WHITESBORO STREET

Edge Of Curb

AREA 1

AREA 2

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 H-4 H-5 H-13 MWB-14

North

LEGEND

SITE BOUNDARY

MONITORING WELL LOCATION - D&B 2003 & 2005

B-5 WELL LOCATION- PREVIOUS

H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997)

ABBREV.	ANALYTE	SCG	UNITS
n-butylbenz	n-butylbenzene	5	ug/l
naphthalene	naphthalene	10	ug/l
cis-1,2-dce	cis-1,2-dichloroethene	5	ug/l
tce	trichloroethene	5	ug/l
vinyl chloride	vinyl chloride	2	ug/l
benzene	benzene	1	ug/l
toluene	toluene	5	ug/l
ethylbenzene	ethylbenzene	5	ug/l
m,p-xylenes	m,p-xylenes	5	ug/l
o-xylene	o-xylene	5	ug/l
isopropylbenz	isopropylbenzene	5	ug/l
n-propylbenz	n-propylbenzene	5	ug/l
1,3,5-trimeth	1,3,5-trimethylbenzene	5	ug/l
1,2,4-trimeth	1,2,4-trimethylbenzene	5	ug/l
bnz(a)anth	benzo(a)anthracene	0.002	ug/l
chrysene	chrysene	0.002	ug/l
bnz(b)fluor	benzo(b)fluoranthene	0.002	ug/l
bnz(k)fluor	benzo(k)fluoranthene	0.002	ug/l
bnz(a)pyr	benzo(a)pyrene	ND	ug/l
indeno	indeno(1,2,3-c,d)pyrene	0.002	ug/l
antimony	antimony	3	ug/l
arsenic	arsenic	25	ug/l
barium	barium	1,000	ug/l
beryllium	beryllium	3	ug/l
cadmium	cadmium	5	ug/l
chromium	chromium	50	ug/l
copper	copper	200	ug/l
iron	iron	300*	ug/l
lead	lead	25	ug/l
magnesium	magnesium	35,000	ug/l
manganese	manganese	300*	ug/l
mercury	mercury	0.7	ug/l
nickel	nickel	100	ug/l
selenium	selenium	10	ug/l
sodium	sodium	20,000	ug/l
thallium	thallium	0.5	ug/l
zinc	zinc	2,000	ug/l

ND = non-detectable
* = combined standard for iron and manganese is 500 ug/l
J = estimated concentration
VOCs = volatile orgoinc compounds
SVOCs = semivolatile organic compounds
NE = no exceedances
NS = not sampled

SAMPLE ID — DATE SAMPLED
ANALYTE — CONCENTRATION (ug/l))

0 25' 50' 75'
SCALE: 1"=50'

JUL 7, 2005 SEP C:\1909\whitesboro SEP SIR base.dwg

26-28 WHITESBORO STREET
UTICA, NEW YORK

EXCEEDANCES IN GROUNDWATER

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FIGURE 4-4

exceeded in one sample at a concentration of 120 μg/l (MW-6). The SCG for m- and p-xylenes (5 μg/l) was exceeded in one sample at a concentration of 14 μg/l (MW-6). The SCG for o-xylene (5 μg/l) was exceeded in one sample at a concentration of 53 μg/l (MW-6).

Six SVOCs were detected above SCGs in the groundwater samples that were collected from the site. The SVOC results are presented in Appendix E, Table 5b. The SCG for benzo (a) anthracene (0.002 μg/l) was exceeded in two of the 12 samples at concentrations of 6 μg/l (B-1) and 1 μg/l (B-12). The SCG for benzo (b) fluoranthene (0.002 μg/kg) was exceeded in two of the 12 samples at concentrations of 6 μg/l (B-1) and 2 μg/l (B-12). The SCG for benzo (k) fluoranthene (0.002 μg/l) was exceeded in one of the 12 samples at a concentration of 3 μg/l (B-1). The SCG for benzo (a) pyrene (non-detect) was exceeded in one of the 12 samples at a concentration of 4 μg/l (B-1). The SCG for chrysene (0.002 μg/l) was exceeded in three of the 12 samples at concentrations ranging from 1 μg/l (B-7 and B-12) to 6 μg/l (B-1). The SCG for indeno(1,2,3-cd)pyrene (0.002 μg/l) was exceeded in one of the 12 samples at a concentration of 3 μg/l (B-1).

Metals analyses were performed on five groundwater samples collected during the June 2003 sampling round, eight groundwater samples collected during the June 2005 sampling round and eight groundwater samples collected during the July 2006 sampling round. Analyses for total metals were run on each of these samples as requested by the NYSDEC. Samples for total metals analyses were very turbid and metals results may not be indicative of true groundwater concentrations. Eight groundwater samples collected during the June 2005 sampling round were also filtered at the laboratory and analyzed for dissolved metals. Eight groundwater samples collected during the July 2006 sampling round were filtered in the field and analyzed for dissolved metals. Table 4-5 presents a summary of metals detections, exceedances, and minimum, mean and maximum concentrations for both total metals and dissolved metals in groundwater.

TABLE 4-5
SUMMARY OF METALS DATA FOR GROUNDWATER
26-28 WHITESBORO STREET SITE
UTICA, NEW YORK

	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)	TOTAL METALS DATA 21 groundwater samples						DISSOLVED METALS DATA 16 groundwater samples					
		number of detects	exceedances number	exceedances percent	min (ug/l)	max (ug/l)	aver (ug/l)	number of detects	exceedances number	exceedances percent	min (ug/l)	max (ug/l)	aver (ug/l)
Aluminum	----	21	0	0	419	490,000	59,705	7	0	0	19	62.1	42
Antimony	3 ST	6	5	38	1.8	65.1	14.6	7	2	15	1.6	9.5	3.64
Arsenic	25 ST	21	6	46	1.7	618	104.7	8	0	0	1.8	14.6	5.7
Barium	1,000 ST	21	4	31	37	6,430	865	16	0	0	30.7	285	105.5
Beryllium	3 GV	11	5	38	0.15	27.7	8.2	0	0	0	ND	ND	ND
Cadmium	5 ST	18	5	38	0.13	47.8	7.8	7	0	0	0.13	0.23	0.18
Calcium	----	21	0	0	79,400	476,000	205,857	16	0	0	92,700	285,000	162,606
Chromium	50 ST	21	8	62	1	2,600	221	10	2	15	0.49	365	47.1
Cobalt	----	21	0	0	0.42	437.0	70	16	0	0	0.16	4.3	1.1
Copper	200 ST	21	5	38	12	4,190	601	10	0	0	6.4	20.2	15.1
Iron	300 ST ^	21	21	162	977	2,170,000	265,977	13	4	31	20	7,380	744
Lead	25 ST	20	9	69	1	2,250	353	7	0	0	0.62	1.6	1.1
Magnesium	35,000 GV	21	11	85	5,260	273,000	59,655	16	7	54	5,330	100,000	35,121
Manganese	300 ST ^	21	19	146	78	95,900	13,032	16	7	54	3.1	2,690	724
Mercury	0.7 ST	7	5	38	0.068	8.6	2.40	1	0	0	0.30	0.30	0.30
Nickel	100 ST	21	7	54	2	3,810	325	16	0	0	1.4	99.9	12.8
Potassium	----	21	0	0	4,720	56,700	20,941	16	0	0	4,660	21,800	14,381
Selenium	10 ST	5	1	8	1.5	72.7	17.6	7	1	8	3.1	11.3	5.8
Silver	50 ST	2	0	0	1.8	2.2	2	0	0	0	ND	ND	ND
Sodium	20,000 ST	21	19	146	16,300	541,000	138,390	16	14	108	17,400	341,000	92,344
Thallium	0.5 GV	13	13	100	1.2	8.5	5.00	12	12	92	1.7	11	6.2
Vanadium	----	21	0	0	1.3	966	121	10	6	46	0.54	1.1	0.70
Zinc	2,000 GV	21	3	23	23	7,680	943	16	0	0	4.8	71	32.8

Notes:
^: The combined standard for iron and manganese is 500 ug/l

SCGs were exceeded in total metals analyses for antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc. The total metals results are presented in Appendix E, Tables 5c, 6b and 7a. Antimony was detected above its SCG of 3 μg/l in five samples at concentrations ranging from 3.1 μg/l (B-11) to 65.1 μg/l (B-1). Arsenic was detected above its SCG of 25 μg/l in six samples at concentrations ranging from 62 μg/l (B-3) to 618 μg/l (B-12). Barium was detected above its SCG of 1,000 μg/l in four samples at concentrations ranging from 2,330 μg/l (B-11) to 6,430 μg/l (B-1). Beryllium was detected above its SCG of 3 μg/l in five samples at concentrations ranging from 4.3 μg/l (MW-8) to 27.7 μg/l (B-12). Cadmium was detected above its SCG of 5 μg/l in five samples at concentrations ranging from 6.4 μg/l (MW-8) to 47.8 μg/l (B-12). Chromium was detected above its SCG of 50 μg/l in eight samples at concentrations ranging from 50.2 μg/l (B-3) to 2,600 μg/l (B-1). Copper was detected above its SCG of 200 μg/l in five samples at concentrations ranging from 514 μg/l (MW-8) to 4,190 μg/l (B-12). Iron was detected above its SCG of 300 μg/l in twenty-one samples at concentrations ranging from 977 μg/l (MW-7) to 2,170,000 μg/l (B-12). Lead was detected above its SCG of 25 μg/l in eight samples at concentrations ranging from 27.5 μg/l (MW-3) to 2,250 μg/l (B-1). Magnesium was detected above its SCG of 35,000 μg/l in eleven samples at concentrations ranging from 37,200 μg/l (MW-1) to 273,000 μg/l (B-12). Manganese was detected above its SCG of 300 μg/l in nineteen samples at concentrations ranging from 302 μg/l (MW-4) to 95,900 μg/l (B-10). Mercury was detected above its SCG of 0.7 μg/l in five samples at concentrations ranging from 0.92 μg/l (MW-8) to 8.6 μg/l (B-11). Nickel was detected above its SCG of 100 μg/l in seven samples at concentrations ranging from 143 μg/l (MW-8) to 3,810 μg/l (B-1). Selenium was detected above its SCG of 10 μg/l in one sample at a concentration of 72.7 μg/l (B-11). Sodium exceeded the SCG (20,000 μg/l) in nineteen samples at concentrations ranging from 22,600 μg/l (MW-8) to 541,000 μg/l (B-12). Thallium was detected above its SCG of 0.5 μg/l in thirteen samples at concentrations ranging from 1.2 μg/l (MW-4) to 8.5 μg/l (MW-2). Zinc was detected above its SCG of 2,000 μg/l in three samples at concentrations ranging from 2,640 μg/l (B-10) to 7,680 μg/l (B-1).

SCGs were exceeded in dissolved metals analyses for antimony, chromium, iron, magnesium, manganese, selenium, sodium and thallium. The dissolved metals results are presented in Appendix E, Tables 6b and 7a. Antimony was detected above its SCG of 3 μg/l in two samples at concentrations of 3.5 μg/l (MW-6) and 9.5 μg/l (MW-1). Chromium was detected above its SCG of 50 μg/l in two samples at concentrations of 98.4 μg/l (MW-3) and 365 μg/l (MW-3). Iron was detected above its SCG of 300 μg/l in four samples at concentrations ranging from 391 μg/l (MW-6) to 7,380 μg/l (MW-1). Magnesium was detected above its SCG of 35,000 μg/l in seven samples at concentrations ranging from 35,100 μg/l (MW-3) to 100,000 μg/l (MW-4). Manganese was detected above its SCG of 300 μg/l in seven samples at concentrations ranging from 747 μg/l (MW-8) to 2,690 μg/l (MW-4). Selenium was detected above its SCG of 10 μg/l in one sample at a concentration of 11.3 μg/l (MW-8). Sodium exceeded the SCG (20,000 μg/l) in fourteen samples at concentrations ranging from 24,700 μg/l (MW-5) to 341,000 μg/l (MW-3). Thallium was detected above its SCG of 0.5 μg/l in twelve samples at concentrations ranging from 1.7 μg/l (MW-7) to 11.0 μg/l (MW-3).

4.5 Data Usability Summary Report

D&B's Quality Assurance/Quality Control Officer, Robbin Petrella, prepared the DUSRs. Ms. Petrella is a qualified data validator and meets the requirements for a data validator set forth by the NYSDEC. Ms. Petrella holds a bachelor's degree in Chemical Engineering, has worked in an environmental laboratory, both analyzing samples and generating NYSDEC ASP reports and has successfully completed the USEPA data validation courses.

Sample analysis was performed by Mitkem Corporation, Inc., a subcontractor to D&B, in accordance with NYSDEC 6/00 ASP requirements. The data packages, submitted by Mitkem, were reviewed for completeness and contract compliance to determine the usability of the sample results. The findings of the review process are summarized below.

June 2003 Samples

Twenty soil and twelve groundwater samples were collected on June 5, June 6, and June 10, 2003 in support of a site investigation conducted at the 26-28 Whitesboro Street Site. The surface soil samples were analyzed for TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. The subsurface soil samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. The groundwater samples were analyzed for TCL VOCs and TCL SVOCs, and in addition, five of the groundwater samples were analyzed for TAL metals. Analytical data summary tables are included in Appendix E.

All samples were analyzed within the method specified holding times and all QA/QC requirements (i.e. calibrations, tunes, surrogate recoveries, area counts, etc.) were met.

Several samples required reanalysis of the VOC and/or SVOC fraction due to internal standard area counts and/or surrogate recoveries being outside QC limits. Both sets of analyses were included in the data package and in all instances the initial set of data was deemed as the 'best set' and has been included on the data summary tables.

The methylene chloride results for all of the subsurface soil samples, except for WBB-3(4-6) and WBB-11(2-4), have been qualified as non-detect due to laboratory contamination and are flagged as "U*" on the data summary tables. The method blank associated with these samples also contained methylene chloride and the sample results were less than 10 times the concentration found in the blanks. The results for samples WBB-3(4-6) and WBB-11(2-4) were qualified as estimated, flagged "J*" on the data tables, since the sample concentrations were greater than 10 times that of the blank concentrations.

Several samples required reanalysis at secondary dilutions due to compound concentrations exceeding the instrument calibration range. The data for the affected compounds was taken from the diluted runs and flagged with a "D" on the data summary tables

No other problems were found with the sample results and all results are deemed usable for environmental assessment purposes as qualified above.

June 2005 Samples

Twelve surface soil and eighteen subsurface soil samples were collected on June 1, 2005 and June 2, 2005 in support of the site investigation at the 26-28 Whitesboro Street Site. The surface soil samples were analyzed for TCL SVOCs and TAL metals and the subsurface soil samples were analyzed for TCL VOCs and TCL SVOCs.

Sample analysis was performed in accordance with the NYSDEC 6/00 ASP methods with all QA/QC requirements (i.e. calibrations, tunes, area counts etc) being met.

The semivolatile fraction of B15 (2-4) required re-extraction due to surrogate recoveries being outside QC limits. The surrogate recoveries for the re-extract were within QC limits and therefore the results from the re-extract are considered the 'best set' and have been included on the data summary tables.

Several compounds, methylene chloride and naphthalene were detected in the method blanks associated with some of the samples. The results of those compounds in the affected samples have been qualified as non-detect and have been qualified as 'U*' on the data summary tables.

The initial un-diluted analysis of the volatile fraction of sample MW-6 (6-8) contained several compounds with concentrations exceeding the instrument calibration range. The sample was re-analyzed at a dilution with several of the compounds being diluted out. Therefore the results for 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene and naphthalene were taken form the diluted run and have been qualified with a 'D' on the data summary tables and all other results were taken form the initial undiluted run.

No other problems were found with the data and all results are deemed valid and usable for environmental assessment purposes as qualified above.

In addition, eight groundwater samples were collected on June 6, 2005 in support of the site investigation at the 26-28 Whitesboro Street Site. Samples were analyzed for TCL VOCs and TAL metals, both total and dissolved.

Sample analysis was performed in accordance with the NYSDEC 6/00 ASP methods with all QA/QC requirements (i.e. calibrations, tunes, area counts etc) being met.

The volatile fraction of MW-6 required reanalysis at a 1:10 dilution due to the concentration of naphthalene exceeding the instrument calibration range in the initial, undiluted analysis. The result for naphthalene has been flagged with a 'D' on the data summary tables.

The chloroform result in sample MW-6 has been qualified as non-detect since the trip blank associated with the samples also contained chloroform at the same concentration. The chloroform result has been qualified as 'U*' on the data summary tables.

No problems were found with the data and all results are deemed usable for environmental assessment purposes.

5.0 HUMAN HEALTH EXPOSURE ASSESSMENT

The purpose of this qualitative risk assessment is to determine how and when exposure to contaminants of potential concern associated with the 26-28 Whitesboro Street Site can occur. In order to determine the significance of exposure and the need for remediation, the likelihood of completion of human exposure pathways was evaluated. The findings of this assessment, together with the conclusions provided in Section 6.0, will form the basis for the need for remediation of the site.

Exposure to contaminants occurs when an exposure pathway is complete. An exposure pathway has five elements: 1) a contaminant source (waste disposal area or point of discharge); 2) contaminant release and transport mechanisms; 3) a point of exposure (a location where human contact with the medium takes place); 4) a route of exposure (i.e., ingestion, inhalation or dermal absorption); and 5) a receptor population. An exposure pathway is said to be complete when each of the five elements is present. If one or more of the elements is absent, the pathway is said to be potentially complete. An exposure pathway may be eliminated from consideration if any one of the five elements has not existed in the past, does not exist in the present and will never exist in the future.

The following sections address each of the five elements of the potential exposure pathways. The first and last elements (contaminant source and receptor population) are discussed in Sections 5.1 and 5.2. The remaining elements of the exposure pathway are discussed in Sections 5.3 through 5.7 in relation to each contaminant medium investigated. Section 5.7 provides conclusions of the exposure assessment.

5.1 Contaminant Source

The results of the site investigation indicate that SVOCs in surface and subsurface soils are the primary contaminants of concern. Metals in surface and subsurface soils are of secondary concern. VOCs, to a lesser extent, are a concern in groundwater and vapors from groundwater.

5.2 Receptor Population

Potential human receptors at the 26-28 Whitesboro Street Site include trespassers and construction workers. The site is located in a commercial area of an urban community and the surrounding residential population is limited. Although a residential neighborhood is located west of the site, no children were observed playing on or near the site during the site investigation.

There are no buildings located at the site. To the south and west of the property are commercial properties. Several railroad tracks are located to the north of the site. To the east is a major roadway (NYS Route 5) and ramps associated with that roadway. The closest residential properties are located several blocks west of the site, beyond neighboring commercial properties.

Access to the site is uncontrolled and there is no fencing to preclude entrance to the site. During the field investigation, there were no observed trails through the site and the rough terrain containing animal burrows, concrete and metal debris, and thick brushy vegetation indicates that the site is not used by pedestrians and recreational vehicles. However, there is the potential that individuals could access the site and encounter impacted surface soil and individuals conducting potential future construction at the site could encounter impacted surface and subsurface soils.

5.3 Surface Soil

Surface soil is a potential release and transport mechanism. SVOCs and metals exceed SCGs, and are present in elevated concentrations throughout the site. Possible routes of exposure to contaminants in surface soil include ingestion, inhalation and dermal absorption.

Under current site conditions, potential exposure is low due to the presence of tall grass and brush. In the event that the site is developed, the potential exposure is moderate since vegetation would be disturbed. Ingestion is a potential exposure route, although it is unlikely that intentional ingestion of soil would occur. Inhalation is a potential exposure route if soil becomes airborne. Inhalation is possible if soil is disturbed or left without vegetative cover.

Dermal absorption may be likely because an individual may walk across the surface soil, however; skin exposure would be low since visitors and trespassers would likely be wearing shoes or boots. Dermal contact with surface soil would likely be for a short duration. The likelihood of significant exposure to surface soil is moderate under current site conditions and moderate for potential future development that would likely involve excavating, stockpiling and re-grading surface soils. This exposure pathway is potentially complete.

5.4 Subsurface Soil

Subsurface soil is a potential release and transport mechanism. SVOCs and metals are a potential concern in subsurface soil. The most significant areas of subsurface soil that exceed SCGs occur in the northern portion of the site closest to the railroad tracks.

Possible routes of exposure to contaminants in subsurface soil include ingestion, inhalation and dermal absorption. At the present time, ingestion is an unlikely exposure route because access to subsurface soil is limited. Inhalation is an unlikely exposure route because the soil would need to become airborne and the subsurface nature of the soil currently prevents this route. Dermal absorption is also unlikely because subsurface soil would need to be exposed. Ingestion, inhalation and dermal absorption would be more feasible routes of exposure in the event that soil is excavated and handled at the site, possibly during future development.

The likelihood of significant exposure to subsurface soil is low based on existing conditions and the exposure pathway is potentially complete. Exposure could be moderate if the site is developed.

5.5 Groundwater

Groundwater is another contaminant release and transport mechanism at the site. VOCs, SVOCs and metals have been detected slightly above groundwater standards in monitoring wells at the site. The maximum total VOC and SVOC concentrations from on-site wells are 346 μg/l and 93 μg/l, respectively. Generally, VOCs only slightly exceed SCGs for the individual

compounds cis-1,2 dichloroethene and trichloroethene. Therefore, the current potential exposure to VOCs and SVOCs is very low. Metals exceedances observed in groundwater are likely attributable to the turbid nature of the samples and the elevated levels of metals are attributable to soils rather than groundwater.

Shallow groundwater flows to the north, beneath an industrial and commercial portion of Utica and discharges in the Mohawk River, approximately 1,500 feet from the site. It is unlikely that the levels of VOCs and SVOCs in groundwater have any impact on the Mohawk River. Potential groundwater exposure points include the monitoring wells and construction water that may be encountered during future site development involving subsurface excavation to and below the water table.

Public water is available in the area of the site. Businesses adjacent to the site and residences located in the vicinity of the site obtain potable water from public water supply sources which are not in close proximity to the site. Ingestion, inhalation and dermal contact could occur if groundwater is used for drinking, cooking, bathing, cleaning or gardening; however, it is unlikely that groundwater sources would be developed at the site.

Due to the restricted access to monitoring wells and unlikely development of a groundwater supply source, exposure to contaminated groundwater emanating from the site is unlikely. As a result, exposure to groundwater poses a low risk and is a potentially complete pathway.

5.6 Groundwater Vapors

Soil and groundwater vapor sampling was not conducted during the investigation, however, the presence of VOCs in concentrations slightly exceeding SCGs in groundwater, makes groundwater vapor a slight concern. VOCs in groundwater may vaporize into the soil and may migrate to the ground surface or future building basements. The potential for human exposure to groundwater vapors in these areas is very low under current conditions and low under future conditions if subsurface structures are constructed at the site. Vapor control or

groundwater treatment systems may be necessary if future site development involves the construction of sub grade foundations or basement work or living spaces. A soil vapor study would need to be conducted to better evaluate the potential impacts of the VOCs in groundwater.

5.7 Conclusions

Exposure to contaminants originating from the Whitesboro Street Site can result from any one of three media, which include surface soil, subsurface soil and groundwater. Table 5-1 provides a summary status of exposure pathways identified at the site. Based on the site investigation results and qualitative risk assessment, current and future exposure to SVOCs and metals contaminated surface soil poses a potential risk to human health at the site. Exposure to SVOCs and metals contaminated subsurface soil is unlikely under current site conditions, however, exposure to contaminated subsurface soil poses a potential risk to human health if the subsurface soil is exposed (i.e. during site development). Exposure to VOCs, SVOCs and metals contaminated groundwater under current conditions is unlikely. Exposure to VOCs in groundwater vapors is possible under future conditions and may require further evaluation when the site is redeveloped.

TABLE 5-1
WHITESBORO STREET SITE
SITE INVESTIGATION
EXPOSURE PATHWAY STATUS FOR HUMAN RECEPTORS

Media	Exposure Point	Route of Exposure	Current Pathway Status	Future Pathway Status
Surface Soil	Site surface	Ingestion	Potentially complete	Potentially complete
	Site surface	Inhalation	Potentially complete	Potentially complete
	Site surface	Dermal Contact	Potentially complete	Potentially complete
Subsurface Soil	Subsurface	Ingestion	Potentially complete, but unlikely	Potentially complete
	Subsurface	Inhalation	Potentially complete, but unlikely	Potentially complete
	Subsurface	Dermal Contact	Potentially complete, but unlikely	Potentially complete
Groundwater	Monitoring wells or Construction Water	Ingestion	Potentially complete, but unlikely	Potentially complete
	Monitoring wells or Construction Water	Inhalation	Potentially complete, but unlikely	Potentially complete
	Monitoring wells or Construction Water	Dermal Contact	Potentially complete, but unlikely	Potentially complete
Groundwater Vapors	Open excavations or future basements	Ingestion	Incomplete	Incomplete
	Open excavations or future basements	Inhalation	Potentially complete	Potentially complete
	Open excavations or future basements	Dermal Contact	Potentially complete, but unlikely	Potentially complete

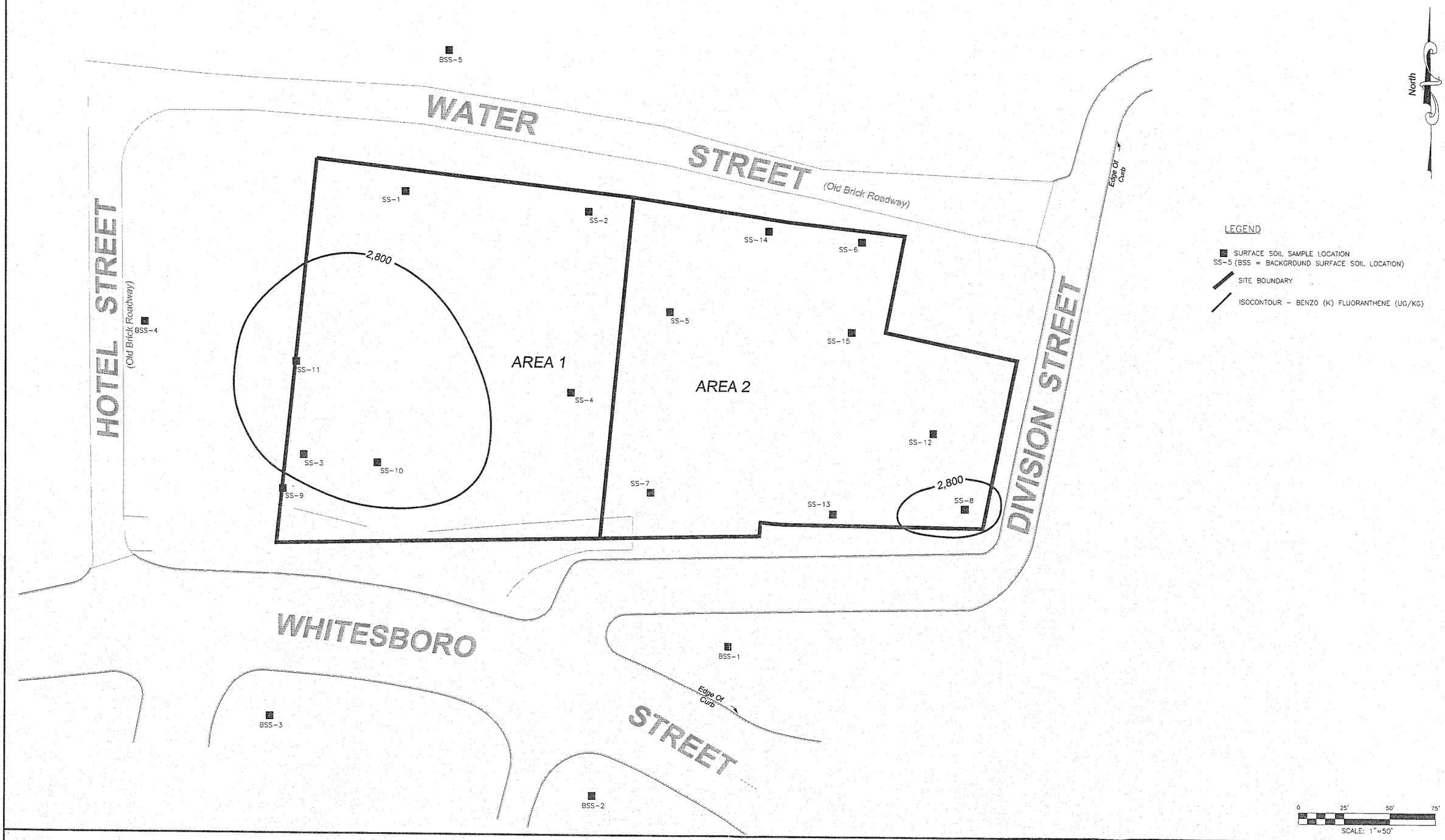
6.0 CONCLUSIONS

6.1 Underground Storage Tanks

The geophysical survey provided no indication that there are underground storage tanks located at the site. Twenty-four soil borings and twenty-eight groundwater samples also provided no indication of contaminant source areas that might have been associated with underground storage tanks at the site.

6.2 Surface Soil

PID screening of surface soil samples indicated that VOCs were not present above background levels at any of the surface soil sample locations and laboratory analyses for VOCs were not conducted. SVOCs exceeded SCGs in all of the fifteen on-site surface soil samples collected throughout the site. The total SVOC concentration (976 mg/kg) for one surface soil sample (SS-3) exceeded the SCG of 500 mg/kg. For the other fourteen surface soil samples, total SVOC concentrations (maximum concentration of 190 mg/kg) are below the SCG of 500 mg/kg. The total carcinogenic PAH concentrations (412 mg/kg, 31 mg/kg, 12 mg/kg, 31 mg/kg, 75 mg/kg, 17 mg/kg and 19 mg/kg) for seven surface soil samples (SS-3, SS-8, SS-9, SS-10, SS-11, SS-12 and SS-13, respectively) exceeded the SCG of 10 mg/kg. For the other eight surface soil samples, total carcinogenic PAH concentrations (maximum concentration of 8 mg/kg) are below the SCGs of 10 mg/kg. Individual SVOC exceedances occur in no particular pattern at various areas across the site. The site is located in an urban setting in close proximity to railroad tracks and several city streets, and was developed using fill. Such settings, particularly in older urban areas, commonly exhibit elevated levels of PAHs, similar to those observed at this site. In addition, off-site background surface soil samples indicated exceedances of individual SVOCs and total carcinogenic PAH SCGs. There is no apparent on-site PAH source, however SVOCs, in particular PAHs, are of concern. Figure 6-1 presents an isocontour map for benzo (k) fluoranthene in surface soil. Benzo (k) fluoranthene was selected for this map as exceedances for this compound generally coincide with exceedances for other SVOCs.



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26-28 WHITESBORO STREET
UTICA, NEW YORK

ISOCONTOUR MAP
SURFACE SOIL - BENZO (K) FLUORANTHENE

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 6-1

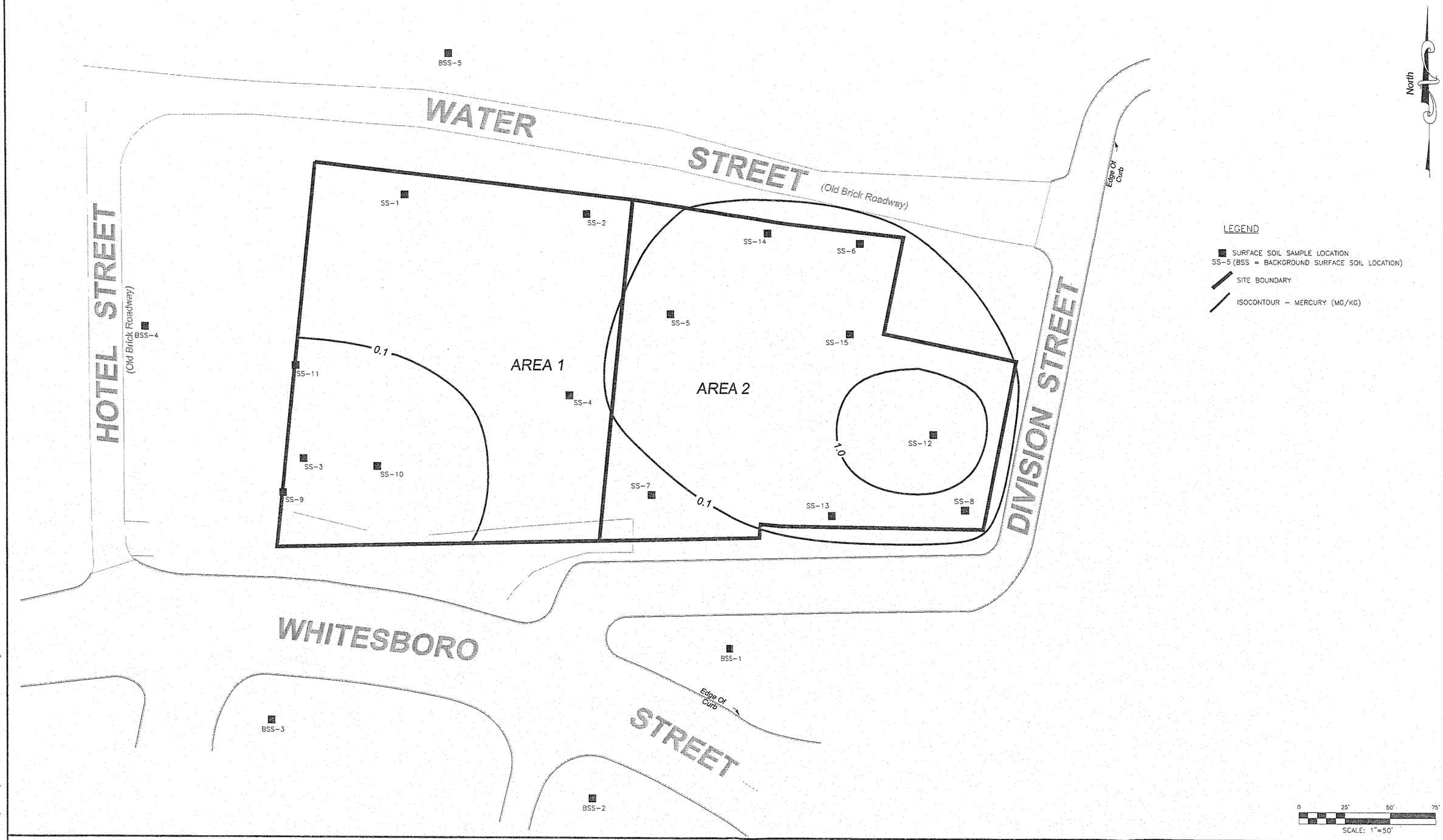
A number of metals (aluminum, beryllium, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, thallium and zinc) were detected above SCGs in surface soil samples. Metals concentrations are generally within published background concentrations for the Eastern United States (NYSDEC, 1994 and Breckinridge, et al, 1995), however, lead and mercury each exceeded SCGs and published background concentrations in on-site surface soil samples. Due to the detection of metals concentrations greater than accepted ranges of published background concentrations for areas of the 26-28 Whitesboro Street Site, metals are of some concern at the site. Figure 6-2 presents an isocontour map for mercury in surface soil. Mercury was selected for this map as exceedances for mercury also encompass exceedances for lead.

Surface soil samples contained no exceedances of SCGs for pesticides, PCBs or cyanide.

6.3 Subsurface Soil

VOCs exceeded SCGs in one of the twenty-nine on-site subsurface soil samples collected throughout the site. However, for all subsurface soil samples, total VOC concentrations (maximum concentration of 7 mg/kg) are below the SCG of 10 mg/kg. In addition, a soil sample collected from a depth below the one sample exceeding SCGs did not exceed SCGs. Therefore, VOCs are of low concern at the site. Figure 6-3 presents an isocontour map for trichloroethene in subsurface soil.

SVOCs exceeded SCGs in approximately 60% of the twenty-nine on-site subsurface soil samples collected throughout the site. However, for all subsurface soil samples, total SVOC concentrations (maximum concentration of 260 mg/kg) are below the SCG of 500 mg/kg. The total carcinogenic PAH concentrations for five on-site subsurface soil samples (B-2 at 13 mg/kg, B-3 at 10 mg/kg, MW-1 at 15 mg/kg, B-14 at 11 mg/kg and B-17 at 94 mg/kg) exceeded the SCG of 10 mg/kg. Total carcinogenic PAH concentrations for the other twenty-four on-site subsurface soil samples (maximum concentration of 7 mg/kg) are below the SCG. Individual SVOC exceedances occur in no particular pattern and at various areas across the site. Subsurface



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26-28 WHITESBORO STREET
UTICA, NEW YORK

ISOCONTOUR MAP
SURFACE SOIL - MERCURY

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FIGURE 6-2

North

WATER STREET (Old Brick Roadway)

HOTEL STREET (Old Brick Roadway)

DIVISION STREET

WHITESBORO STREET

Edge Of Curb

Ramp Wall

AREA 1

AREA 2

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-14 B-15 B-17 B-18

MWB-14

H-1 H-2 H-3 H-4 H-5 H-6 H-7 H-8 H-9 H-10 H-11 H-12 H-13 H-14 H-15 H-16 H-17 H-18 H-19 H-20 H-21 H-22 H-23 H-24 H-25 H-26 H-27 H-28

TP-1 TP-2 TP-3 TP-4 TP-5 TP-12 TP-13 TP-16

HTP-1 HTP-2 HTP-3

700

LEGEND

- SITE BOUNDARY
- BORING LOCATION- D&B 2003 B-5
- WELL LOCATION- PREVIOUS H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997)
- BORING LOCATION- PREVIOUS H-6 (H = HYGEIA 1999, B = DAMES & MOORE 1997)
- EXTENT OF TCE EXCEEDING SCGS

0 25' 50' 75'

SCALE: 1"=50'

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26-28 WHITESBORO STREET
UTICA, NEW YORK

ISOCONTOUR MAP
SUBSURFACE SOIL - TCE

FIGURE 6-3

soils were observed to be fill material containing bricks, glass and ash that likely contained PAHs before being placed at the site. Therefore, it is likely that the source of SVOCs was off-site and not related to historic on-site activities. SVOCs, in particular PAHs, are of concern at the site. Figure 6-4 presents an isocontour map for benzo (a) pyrene in surface soil. Benzo (a) pyrene was selected for this map as exceedances for this compound generally coincide with exceedances for other SVOCs.

A number of metals (aluminum, antimony, barium, beryllium, cadmium, chromium, copper, lead, magnesium, manganese, mercury, nickel, potassium, selenium, sodium and zinc) were detected above SCGs in subsurface soil samples. Metals concentrations are generally within published background concentrations for the Eastern United States (NYSDEC, 1994 and Breckinridge, et al, 1995), however, mercury exceeded SCGs and published background concentrations in subsurface soil samples. Due to the detection of metals concentrations greater than published background concentrations in areas of the 26-28 Whitesboro Street Site, metals are of some concern. Figure 6-5 presents an isocontour map for mercury in subsurface soil.

6.4 Groundwater

VOCs exceeded SCGs in six on-site samples or approximately 35% of the seventeen groundwater samples collected throughout the site. The SCG for cis-1,2-dichloroethene was exceeded in three samples. The SCG for trichloroethene was exceeded in five samples. VOCs exceeding SCGs were detected at the northern portion of Area 1, which is the hydraulically downgradient portion of the site. Groundwater samples were collected from the first water bearing zone encountered at the site; however, this zone would not likely be developed for water supply purposes because of the low yield (less than 0.5 gallons per minute). In addition, potable water is readily available from municipal sources at and around the site. Therefore, because of the low levels of VOCs detected and the unlikely use of groundwater at the site, VOCs under current conditions are of little concern at the site. The low levels of VOCs detected pose a slight concern regarding vapors under potential future site conditions. Figure 6-6 presents an isocontour map for trichloroethene in groundwater.

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26-28 WHITESBORO STREET
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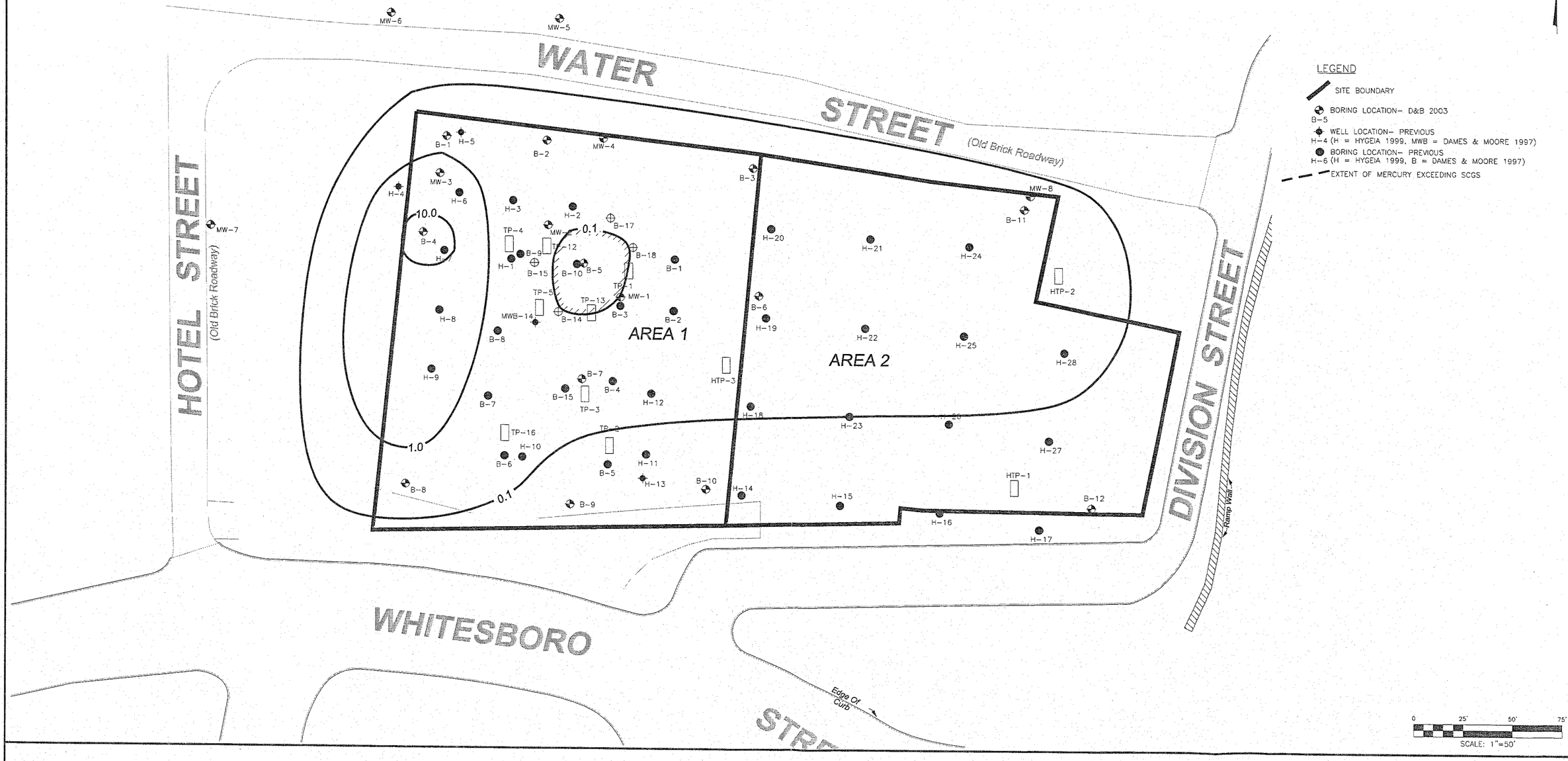
ISOCONTOUR MAP
SUBSURFACE SOIL - BENZO (A) PYRENE

FIGURE 6-4



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26-28 WHITESBORO STREET
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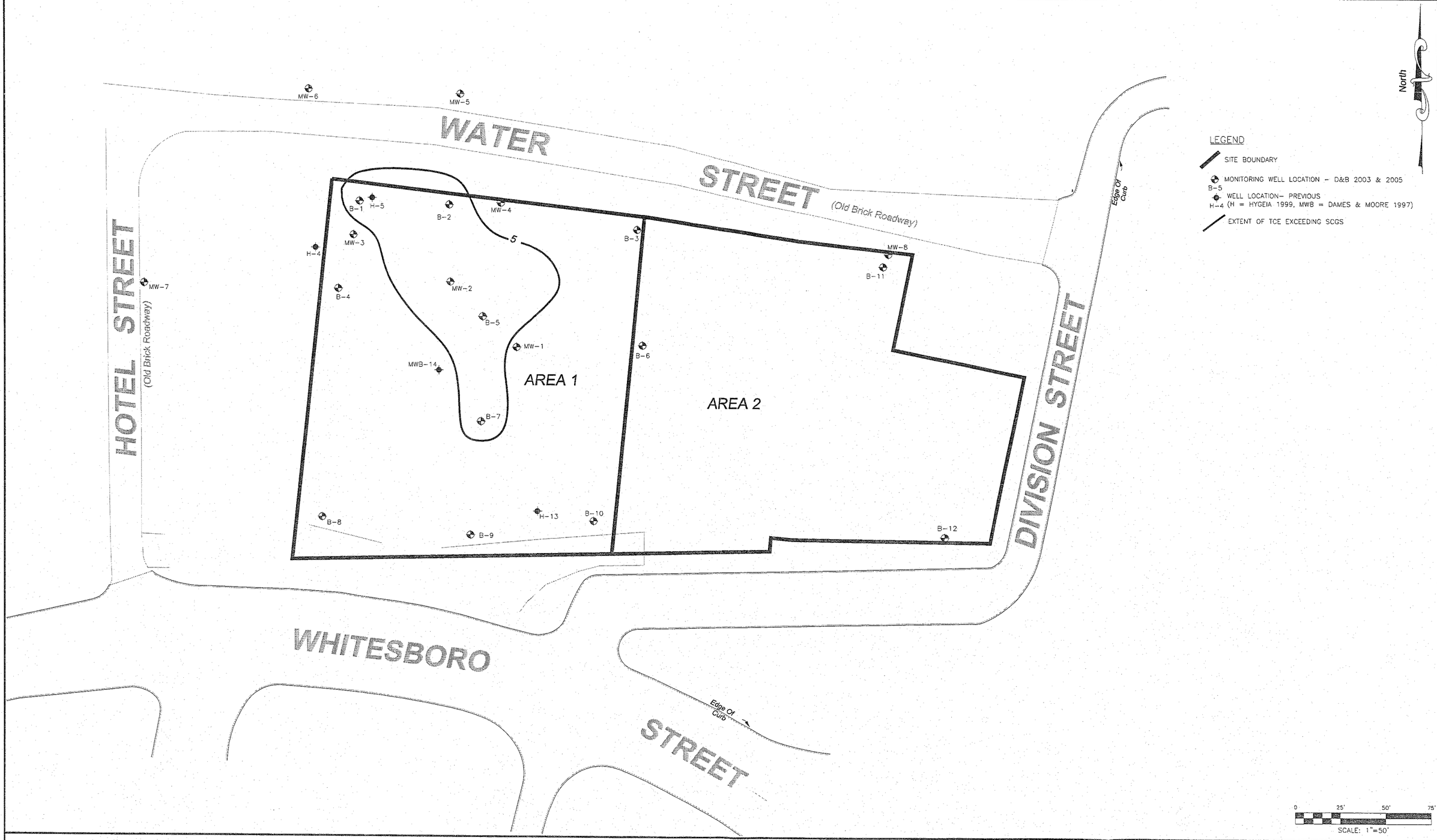
ISOCONTOUR MAP
SUBSURFACE SOIL - MERCURY

FIGURE 6-5



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26-28 WHITESBORO STREET
UTICA, NEW YORK

ISOCONTOUR MAP
GROUNDWATER - TCE

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A Division of William F. Cosulich Associates, P.C.

FIGURE 6-6

SVOCs exceeded SCGs in three samples or 25% of the twelve groundwater samples collected throughout the site. Six individual SVOCs exceeded SCGs in one groundwater sample, one SVOC exceeded SCGs in another groundwater sample and three SVOCs exceeded SCGs in another groundwater sample. The site is located in close proximity to railroad tracks and several streets, and the SVOCs detected at the site were PAHs, which may be the by-products of the combustion of fossil fuels or leachate from fill. Therefore, it is possible that the source of SVOCs detected in groundwater samples is not site related. SVOCs are of low concern in groundwater at the site.

Seventeen metals, including antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc, were detected above SCGs. Unfiltered groundwater samples were collected from the site and the results reported are concentrations of total metals. It is likely that the metals concentrations observed are largely a result of turbidity in the water samples. In addition, the concentrations for these metals in upgradient and downgradient samples are similar, and do not appear to increase in the direction of groundwater flow and, therefore, are likely background. Sixteen filtered groundwater samples were collected at the site and results are indicative of dissolved metals in groundwater. Eight metals, including antimony, chromium, iron, magnesium, manganese, selenium, sodium and thallium were detected above SCGs in filtered groundwater samples. Potable water is readily available from municipal sources in the vicinity of the site. Therefore, because the metals are likely the result of turbid samples and the use of groundwater at the site is unlikely, metals in groundwater are not a concern at the site.

7.0 RECOMMENDATIONS

Observations made during the site investigation and comparison of sample analytical results to SCGs for the 26-28 Whitesboro Street Site indicate, that while the site is not significantly contaminated, there are elevated levels of PAHs and metals in surface and subsurface soils. VOCs, SVOCs and metals are present slightly above SCGs in groundwater, but are of lesser concern. The results of the human health exposure assessment indicate that the exposure pathways for surface soils are potentially complete under current conditions. Exposure pathways in subsurface soils and groundwater are potentially complete, but unlikely under current conditions. Under future conditions, related to site redevelopment, exposure pathways through surface soil, subsurface soil, groundwater and groundwater vapors are potentially complete.

Based on current site conditions and potential site redevelopment plans, it is recommended that a remediation/soils management plan be developed to address contaminated surface and subsurface soils at the 26-28 Whitesboro Street Site, and possibly groundwater and groundwater vapors depending on development plans for the site.

8.0 REFERENCES

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NYSDEC, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels. Division of Hazardous Waste Remediation Technical and Administrative Guidance Memorandum (TAGM) HWR-94-4046. January 24, 1994.

APPENDIX A

ANALYTICAL RESULTS PREVIOUS INVESTIGATIONS

TABLE A-1
26-28 WHITESBORO STREET SITE
PREVIOUS INVESTIGATIONS
SUBSURFACE SOIL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	**MWB-14**	**TP-4**	**H-1**	NYSDEC
Sample Depth (feet)	9.5-10	7.5	unknown	Recommended
Date of Collection	06/97	06/97	10/26/99	Soil Clean-Up
Percent Moisture	NA	NA	14	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Acetone	42	**770**	NA	200
Dichlorodifluoromethane			U	----
Chloromethane			U	----
Vinyl Chloride			U	200
Bromomethane			U	----
Chloroethane			U	1,900
Trichlorofluoromethane			U	----
1,1-Dichloroethene			U	400
Methylene Chloride	12		U	100
trans-1,2-Dichloroethane			U	----
1,1-Dichloroethane			U	200
2,2-Dichloropropane			U	----
cis-1,2-Dichloroethene	U	16,000	U	----
trans-1,2-Dichloroethene	U	**1,300**	NA	300
Chloroform			U	300
Bromochloromethane			U	----
1,1,1-Trichloroethane			U	800
1,1-Dichloropropene			U	----
Carbon Tetrachloride			U	600
1,2-Dichloroethane			U	100
Trichloroethene	7.4	0.89	U	700
1,2-Dichloropropane			U	----
Bromodichloromethane			U	----
Dibromoethane			U	----
cis-1,3-Dichloropropene			U	----
trans-1,3-Dichloropropene			U	----
1,1,2-Trichloroethane			U	----
Tetrachloroethene			U	1,400
1,3-Dichloropropane			U	300
Dibromochloromethane			U	----
1,2-Dibromoethane			U	----
1,1,1,2-Tetrachloroethane			U	----
Bromoform			U	----
1,1,2,2-Tetrachloroethane			U	600
1,2,3-Trichloropropene			U	400
1,2-Dibromo-3-chloropropane			U	----
Benzene			U	60
Toluene			U	1,500
Chlorobenzene			U	1,700
Ethylbenzene			U	5,500
m&p-Xylenes			U	1,200
o-Xylene			U	1,200
Styrene			4,500	----
Isopropylbenzene			U	----
n-Propylbenzene			U	----
Bromobenzene			U	----
1,3,5-Trimethylbenzene			U	----
2-Chlorotoluene			U	----
4-Chlorotoluene			U	----
tert-butylbenzene			U	----
1,2,4-Trimethylbenzene			U	----
sec-butylbenzene			U	----
4-Isopropyltoluene			U	----
1,3-Dichlorobenzene			U	1,600
1,4-Dichlorobenzene			U	8,500
n-butylbenzene			U	----
1,2-Dichlorobenzene			U	7,900
1,2,4-Trichlorobenzene			U	3,400
Hexachlorobutadiene			U	----
Naphthalene			**14,000**	13,000
1,2,3-Trichlorobenzene			U	----
Total VOCs	19	17,301	18,500	10,000

QUALIFIERS:
U: Compound analyzed for but not detected

NOTES:
Indicates value exceeds RSCO.
NA = not analyzed

TABLE A-2
26-28 WHITESBORO STREET SITE
PREVIOUS INVESTIGATIONS
SUBSURFACE SOIL SAMPLE RESULTS
ORGANIC COMPOUNDS - TCLP

Sample Identification	**H-3**	**H-8**	**H-10**	**H-15**	**H-19**	**H-24**	**H-26**	NYSDEC
Sample Depth (feet)	unknown	unknown	unknown	unknown	unknown	unknown	unknown	Recommended
Date of Collection	10/26/99	10/26/99	10/27/99	10/27/99	10/27/99	10/28/99	10/28/99	Soil Clean-Up
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Objective (ug/kg)
VOCs								
Benzene	U	U	U	U	U	U	U	60
Ethylbenzene	9	U	7	U	15	U	5	5,500
Toluene	7	3	7	53	56	U	25	1,500
m&p-Xylenes	31	U	15	7	72	U	18	1,200
o-Xylene	33	U	15	U	16	U	11	1,200
Isopropylbenzene	U	U	U	U	U	U	U	2,300
n-Propylbenzene	U	U	U	U	U	U	U	3,700
4-Isopropyltoluene	U	U	U	U	U	U	U	10,000
1,2,4-Trimethylbenzene	2	U	U	U	U	U	U	10,000
1,3,5-Trimethylbenzene	3	U	U	U	U	U	U	3,300
n-butylbenzene	2	U	U	U	U	U	U	10,000
sec-butylbenzene	U	U	U	U	U	U	U	10,000
tert-butylbenzene	U	U	U	U	U	U	U	10,000
Naphthalene	U	U	U	U	U	U	U	13,000
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	120
SVOCs								
Anthracene	U	U	U	U	U	U	U	50,000
Fluorene	U	U	U	U	U	U	U	50,000
Phenanthrene	U	U	U	U	U	U	U	50,000
Pyrene	U	U	U	U	U	U	U	50,000
Acenaphthylene	U	U	U	U	U	U	U	50,000
Benzo (a) anthracene	U	U	U	U	U	U	U	224
Fluoranthene	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	U	U	U	U	U	U	U	220
Benzo(k)fluoranthene	U	U	U	U	U	U	U	220
Chrysene	U	U	U	U	U	U	U	400
Benzo(a)pyrene	U	U	U	U	U	U	U	61
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	50,000
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	3,200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	14.3

QUALIFIERS:
U: Compound analyzed for but not detected

NOTES:
Indicates value exceeds RSCO.

TABLE A-3
26-28 WHITESBORO STREET SITE
PREVIOUS INVESTIGATIONS
GROUNDWATER SAMPLE RESULTS
ORGANIC COMPOUNDS

Sample Identification	**MWB-14**	**H-5**	**H-13**	**H-4**	Groundwater
Date of Collection	06/30/97	10/28/99	10/28/99	10/28/99	Standard
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
VOCs					
Benzene	U	U	U	U	1
Ethylbenzene	U	U	U	U	5
Toluene	U	U	U	U	5
m&p-Xylenes	U	U	U	U	5
o-Xylene	U	U	U	U	5
Isopropylbenzene	U	U	U	U	5
n-Propylbenzene	U	U	U	U	5
4-Isopropyltoluene	U	U	U	U	5
1,2,4-Trimethylbenzene	U	U	U	U	5
1,3,5-Trimethylbenzene	U	U	U	U	5
n-butylbenzene	U	**230**	U	U	5
sec-butylbenzene	U	U	U	U	5
tert-butylbenzene	U	U	U	U	5
Naphthalene	U	**1,700**	U	U	10
Methyl tert-Butyl Ether	U	U	U	U	10
Trichloroethene	2.2	NA	NA	NA	5
SVOCs					
Anthracene	U	U	U	U	50
Fluorene	U	7	U	U	50
Phenanthrene	U	U	U	U	50
Pyrene	U	U	U	U	50
Acenaphthylene	U	U	U	U	20
Benzo (a) anthracene	U	U	U	U	0.002
Fluoranthene	U	U	U	U	50
Benzo(b)fluoranthene	U	U	U	U	0.002
Benzo(k)fluoranthene	U	U	U	U	0.002
Chrysene	U	U	U	U	0.002
Benzo(a)pyrene	U	U	U	U	ND
Benzo(g,h,i)perylene	U	U	U	U	----
Indeno(1,2,3-cd)pyrene	U	U	U	U	0.002
Dibenzo(a,h)anthracene	U	U	U	U	----

QUALIFIERS:
U: Compound analyzed for but not detected

NOTES:
Indicates value exceeds standards.
NA = not analyzed

APPENDIX B

GEOPHYSICAL INVESTIGATION REPORT

NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

GPR
MAGNETICS
ELECTROMAGNETICS
SEISMICS
RESISTIVITY
UTILITY LOCATION
UXO DETECTION
BOREHOLE CAMERA
STAFF SUPPORT

Results of Geophysical Investigation

Vacant Property
26 Whitesboro Street
Utica, New York

Prepared for: Dvirka and Bartilucci Consulting Engineers
Syracuse, New York

Dates of Investigation: May 19 and 20, 2003

Prepared by:

Hitomi Hamajima
Project Manager
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Results of Geophysical Investigation
Vacant Property
26 Whitesboro Street
Utica, New York

Introduction On May 19 and 20, 2003, NAEVA Geophysics Inc. conducted a geophysical investigation on a vacant property located at 26 Whitesboro Street in Utica, New York. The purpose of the investigation was to search for possible underground storage tanks (USTs) that may exist at the site.

The area of investigation was an approximately 180 by 380-foot lot bounded on the north, south, and east by Water Street, Whitesboro Street, and Division Street, respectively. The western limit of the site was about 90 feet east of Hotel Street (see Figure 1). The property was relatively flat and open except some vegetation at the northeast corner and east side on the property. The property was littered with household refuse, trash, car parts, and metallic construction material.

Methods The equipment selected for this investigation included a Geonics EM-61 MK2 electromagnetic metal-detector, a Fisher TW-6 M-Scope hand-held metal-detector, and a Sensors & Software Noggin Smart Cart ground penetrating radar (GPR) system with a 500 MHz antenna.

The EM-61 is a high-resolution time-domain metal-detector that is capable of detecting both ferrous and non-ferrous metallic objects. The EM-61 consists of three major parts: a hand-pulled cart housing a twin transmitter/receiver coil assembly; a backpack containing the battery and processing electronics; and a digital data recorder. The EM-61's transmitter generates a pulsed primary magnetic field, which then induces eddy currents in nearby metallic objects. The decay of these eddy currents is measured by each of two spatially separated receiver coils. By taking these measurements at a relatively long time after termination of the primary pulse, the response is practically independent of the electrical conductivity of the ground. The coils' responses are recorded by an integrated data logger and displayed as two channel data. The response curves from the receiver coils are typically well-defined positive peaks that allow accurate lateral location of targets.

The Fisher TW-6 is a type of hand-held electromagnetic metal-detector. The instrument consists of a transmitter coil and a receiver coil mounted at opposite ends of a 4-foot horizontal staff. The transmitter is fixed in a vertical position. The receiver's orientation is then adjusted to the horizontal, exactly perpendicular to the transmitter. When the receiver is in this perpendicular

orientation, its response to the transmitter is at a minimum. Metallic objects in the vicinity of the instrument pick up the transmitted signal, and acting as secondary transmitters, cause detectable interference at the receiver. By adjusting the gain of the instrument, as well as its position relative to a buried metallic object, an experienced operator can often obtain information as to the size or shape of the target. The TW-6 was used in a general reconnaissance investigation of the site including those portions that were inaccessible to the EM-61 (northeast corner and east side on the property covered with heavy vegetation), and as a follow-up tool for EM-61 anomalies.

A survey grid of east/west lines was established across the site with a 5-foot spacing. The purpose of the grid is to facilitate a systematic approach to EM data collection and to allow the reacquisition of sample locations. It was expected that the 5-foot line spacing would make it possible to locate buried metallic objects large enough to be USTs, within the depth range of the instrument.

The EM-61, operating in the wheel-triggered mode, collected data at approximately 0.7-foot intervals along each grid line. The line number, sampling direction, and starting location were entered into the instrument at the beginning of each line. A fiducial mark was added to the data every 40 feet along a line, to be used during data processing to correct for terrain induced odometer error. The beginning and ending points of each line were also hand recorded in a field notebook.

The raw data from the digital recorder were transferred to a laptop computer and processed using Geonics' DAT61 software. First, the starting and end points of each line were checked against the written field notebook. The software then automatically adjusted the location for the data between end points and fiducial marks by either compressing or expanding them. The data were converted to a spreadsheet format compatible with Surfer Mapping Software for contouring. The EM-61 data for this report is presented as a contour map of the bottom coil data (see Figure 2).

Using the grid coordinates as a guide, significant EM-61 targets were relocated in the field. The area surrounding each EM anomaly was visually inspected for evidence of cultural features that could represent the source of the anomaly. When no obvious surface cultural sources could be identified, the anomalies were investigated using the TW-6 metal-detector in an attempt to identify an underground source and delineate its approximate surface trace. Anomalies whose surface trace suggested a possible UST were mapped and assigned reference numbers. GPR data profiles were collected along bi-directional traverses centered over the anomalies.

Results

NAEVA found no conclusive evidence to suggest the presence of USTs at this site. A total of 17 metal-detector anomalies were identified with the EM-61 data contour map and TW-6 follow-up. The anomalies' locations are listed in the table below. Most of those detected anomalies were associated with visible cultural sources. The five most significant metal-detector anomalies within the EM-61 grid were chosen for follow-up with the GPR. GPR data profiles collected over these anomalies showed flat buried objects at a depth range of approximately 1 to 2 feet. These features are probably reinforced concrete and/or metallic construction materials associated with former building structures. No other evidence of USTs was identified within the area investigated.

Pink paint was used to delineate utilities of unknown use and metal-detector anomalies. The five metal-detector anomalies were also marked with wood stakes and white flags. Please note that a utility mark-out was not performed as a part of this investigation.

Table 1. Locations of Metal-detector Anomalies

Locations Line	Station	**Anomaly Feature**	**Comment**
105 to 115	0 to 10	**Anomaly No.1**	Flat buried object, 1 to 1.5 feet depth on GPR profiles
145	30	**Anomaly No.2**	Buried object, less than 1 foot depth on GPR profiles
160	67	**Anomaly No.3**	Buried object, less than 1 foot depth on GPR profiles
20 to 30	30 to 35	**Anomaly No.4**	Poor GPR penetration, reinforced concrete? Not detected by EM-61
75	260	**Anomaly No.5**	Flat buried object, less than 1 foot depth on GPR profiles
10	115	Manhole	Visible on surface
40	370	Manhole	Visible on surface
5	160	Reinforce concrete	Sidewalk
40 to 65	190 to 200	Steel metal beam	Partially visible from surface
100 to 110	125 to 135	Former foundation?	Partially visible from surface
165	355	Metal scraps	Visible on surface
180	345	Metal scraps	Visible on surface
50 to 55	365 to 370	Unknown	Small response by TW-6
150 to 185	325 to 330	Unknown	Small response by TW-6
125	55	Unknown	Small response by TW-6
145	60	Unknown	Small response by TW-6
195	75	Unknown	Small response by TW-6

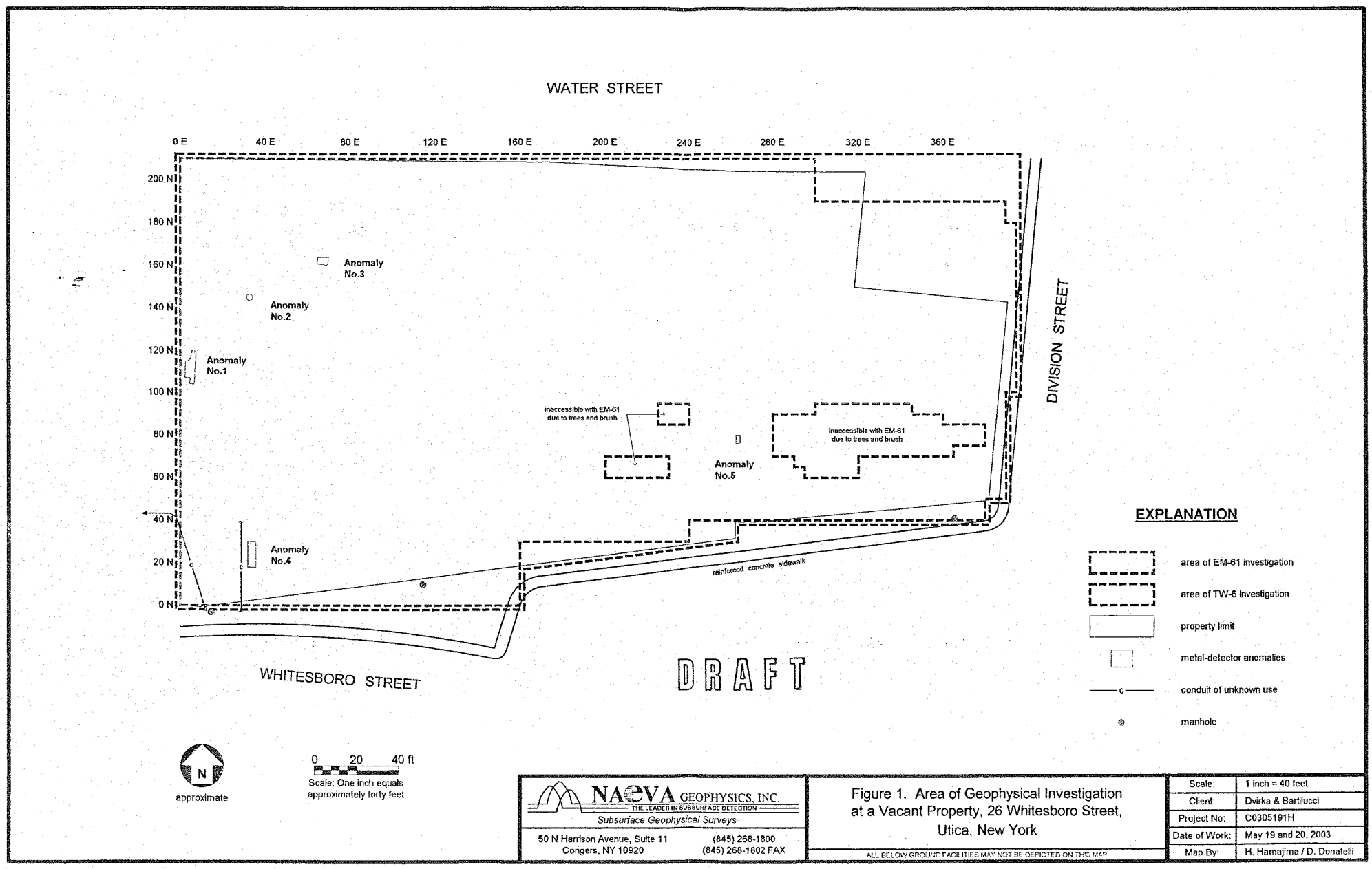

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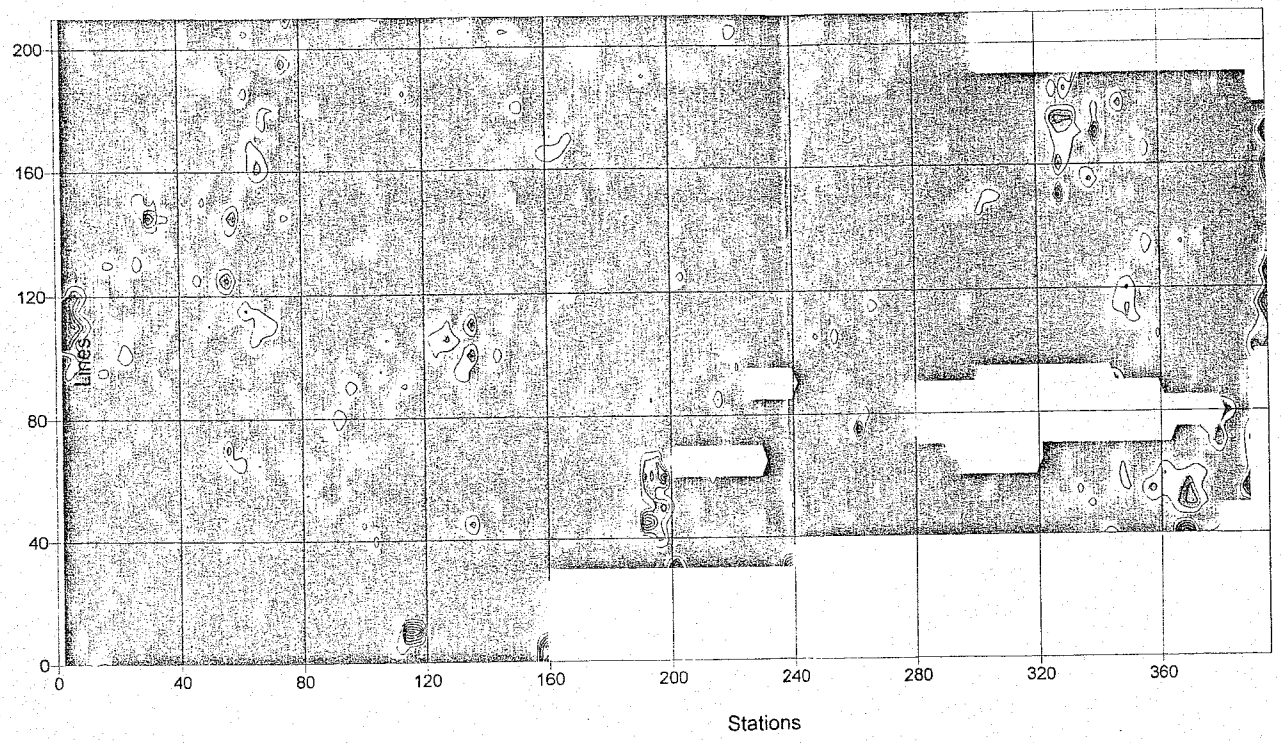
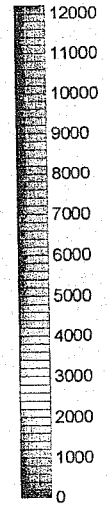
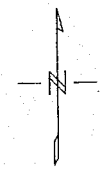
Figure 1. Area of Geophysical Investigation at a Vacant Property, 26 Whitesboro Street, Utica, New York

ALL BELOW GROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP

Scale:	1 inch = 40 feet
Client:	Dvirka & Bartilucci
Project No:	C0305191H
Date of Work:	May 19 and 20, 2003
Map By:	H. Hamajima / D. Donatelli







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NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

Figure-2 EM-61 Contour Map at a Vacant Property
26 Whitesboro Street, Utica, New York

APPENDIX C

SOIL BORING, WELL CONSTRUCTION AND WELL DEVELOPMENT LOGS

Driller: Parratt-Wolff	**Dvirka and Bartilucci Boring Log**
Inspector: S. Popling	Project Name: Utica - Whitesboro
Rig Type: IR A300	Project #: ~~1910~~ 1909
Drilling Method: Direct Push	Boring Depth: 12'

Boring ID : B1
Sheet 1 of 1
Location: NW corner site

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/5/03 - 0925
Finish (Date & Time): 6/5/03 - 1020
Weather: Overcast, upper 60s, rain
Elevation of Ground Surface:

Location Sketch: N; Water Street; • B1; Area 1

Depth	Sample Interval	Sample No.	~~Blows~~ REC	~~PID~~ (ppm)	Field Description	Well Schematic	Comments
	0-2	0928	1.2	0	Grass ~~Top~~ Dark yellowish brown (10YR 4/2) SILT, some f. sand, little clay, trace m-c gravel (subrnd) (moist); red brick at 1.9'		1" Ø PVC riser
2	2-4	0942	0.2	0	brick and mortar, wood, glass and SILT	-2'	refusal at 2.1 ft, offset 2' SE
3							
4	4-6	1007	0.1	0	Dusky yellowish brown (10YR 2/2) f-c SAND, some silt - brick (moist)		refusal at 4 ft, offset 2' SE
5							
6	6-8	1010	1.0	0	same		collected sample WB-B1 (6-8) VOCs, SVOCs, Pest, PCB, TAL, CN
7							
8	8-10	1015	1.2	0	Moderate brown (5YR 3/4) f. SAND, little silt, trace f. gravel (moist)		water at 8' bg
9					Moderate brown (5YR 3/4) f-c SAND little silt, trace f. gravel (wet)		
10	10-12	1018	0.6	0	same		1" Ø PVC 10 slot screen
11							No sand or seal
12					EOB at 12 ft bg, install Hand well		12'

Soil Stratigraphy Summary

d&b boring log -GG version.xls

Driller: Prescott-Wolff
Inspector: S. Peplin
Rig Type: GR A300
Drilling Method: Direct push/3¼" HSA

Dvirka and Bartilucci Boring Log

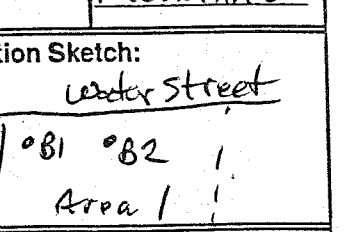
Project Name: White-Whiteshore
Project #: 1909
Boring Depth: 16

Boring ID: B2
Sheet 1 of 1
Location: N center Area 1

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/5/03-1028
Finish (Date & Time): 6/5/03-1259
Weather: Overcast, mid 60°s F rain
Elevation of Ground Surface: ____

Location Sketch:



Sample Interval	Sample No.	Rec Blows (ft)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1029	0.7	0	Grayish brown (5YR3/2) SILT, some f. sand, little clay, trace m. gravel (moist)		1" ø PVC riser
2-4	1032	0.9	0	redbrick at 1.9' redbrick (0.3' thick) wood (0.3' thick) Grayish brown (5YR3/2) SILT and f.c SAND (moist)		refusal @ 4.2' concrete offset 2', refusal @ 4.7' concrete offset, east
4-6	1111	0.4	0	brick-red concrete		
6-8	1113	0.9	0	redbrick Grayish brown (5YR3/2) SILT, some f. sand), little clay (moist)	6'	- slight petroleum like odor
8-10	1117	0.3	0	sand		Sample WB-B2(6-8) collected for VOC, SVOC, Pest/PCB, TAL, CN refusal at 9.6' offset to N, refusal at 3 ft on 3 attempts used 5' solid stem to 5', switched to HSA and augered to 8 ft through concrete
10-12	1242	1.6	0	Dusky brown (5YR2/2) SILT, some f.c Sand), little clay (moist)		
				- wet at 11.5'		
12-14	1245	1.5	0	Moderate brown (5YR 4/4) f.c SAND, little SILT (wet)		1" ø PVC 10 slot screen
14-16	1250	1.1	0	sand		No sand or seal
					16'	
				EOB at 16 ft bg, Install 1-inch PVC well, 10 ft 10-slot		

Soil Stratigraphy Summary: ____

Driller: Parratt-Wolff
Inspector: S. Perling
Rig Type: IR A300
Drilling Method: 2" direct push

Dvirka and Bartilucci Boring Log

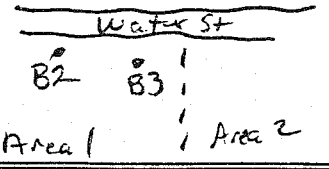
Project Name: Utica-Whitesboro St.
Project #: 1904
Boring Depth: 14'

Boring ID: B3
Sheet 1 of 1
Location: NE corner Area 1

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/6/03 - 1126
Finish (Date & Time): 6/6/03 - 1150
Weather: Overcast, low 60°s F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Rec Blows (feet)	PID (ppm)	Field Description	Well Schematic	Comments
				grass		
0-2	1129	1.0	0	Moderate brown (5YR 3/4) SILT, some fine sand (moist)		
				red brick		
2-4	1132	NR	NM	No recovery		1" ø PVC Riser No sand or seal
4-6	1135	1.2	0	Dusky yellowish brown (10YR 2/2) SILT, some f-c Sand, little f-c gravel, trace coal (moist)	4'	collected sample WB-B3(4-6) for VOCs, SVOCs, Pest, PCB, TAL, CN
6-8	1142	0.3	0	Dusky yellowish brown (10YR 2/2) SILT, little f-c sand (moist)		refusal at 6', HSA to 6.5'
8-10	1144	1.2	0	Same Black to red (5R 2/2) Peat Olive gray (5Y 4/1) SILT and CLAY (moist)		1-in ø PVC 10 slot screen
10-12	1146	1.5	0	Olive Black (5Y 2/1) SILT, some clay, trace f-m sand (wet)		water at 10' bg
12-14	1148	1.8	0	same		
				EOB at 14 ft bgs, install 1-in ø PVC well		14'

Soil Stratigraphy Summary _____

Driller: Parratt-Wolff
Inspector: S. Pepling
Rig Type: IRA300
Drilling Method: direct push

Dvirka and Bartilucci Boring Log

Project Name: Utica Whitesboro Street
Project #: 1909
Boring Depth: 14'

Boring ID: B4
Sheet 1 of 1
Location: center Southwest side Area

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/5/03-1542
Finish (Date & Time): 6/5/03-1614
Weather: Overcast, drizzle 60's F, rain
Elevation of Ground Surface: _____

Location Sketch: Water Street
N
B1 B2
B4 B5 Road
B7

Sample Interval	Sample No.	Rec ~~Blows~~ (Feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1543	0.3	0	grass Grayish brown (5YR 5/2) SILT, some f. sand (moist), gravel fragment in nose		1" ø PVC riser no sand or seal
2-4	1548	0.9	0	Same red brick		refusal at 3ft, offset refusal at 3ft, HSA to 8ft bgs very tough
					4'	
						1" ø PVC 10 slot screen
8-10	1606	0.4	0	Dark yellowish brown (10YR 4/2) f. m SAND, some Silt, trace f. gravel (moist)		collected sample WB-B4(8-10) for VOCs, SVOCs, Pest, PCB, TAL, CN - 14 Dec 03
10-12	1608	0.2	0	Same (wet)		- water at 10' bg
12-14	1610	1.8	0	Same		
					14'	
				EOB at 14 ft bgs, install 1-in ø PVC well ~~tie~~ 10 ft screen, 10 slot		

Soil Stratigraphy Summary _____

Driller: Parratt-Wolff
Inspector: S. Peplis
Rig Type: IR A300
Drilling Method: direct push/3¼ in HSA

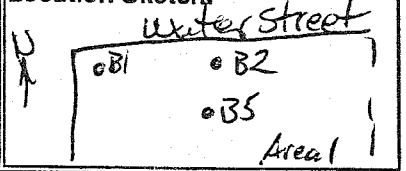
Dvirka and Bartilucci Boring Log

Project Name: Whitesboro
Project #: 1909
Boring Depth: 14

Boring ID: B-5
Sheet 1 of 1
Location: center Area 1

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/5/03 · 1416
Finish (Date & Time): 6/5/03 - 1505
Weather: Overcast, upper 60's F, rain
Elevation of Ground Surface: ____

Location Sketch:


Sample Interval	Sample No.	REC ~~Blows~~ (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1418	1.1	0	grass Grayish brown (5YR3/2) SILT and & SAND (moist) cinders, red brick (1-2')		
2-4	1421	0.2	0	Red brick and gravel Congmerate,	2'	1" ø PVC riser no sand or seal
4-6	1426	0.4	0	Red bricks, cinders, and gravel	4'	refusal @ 4' Used HSA to auger to 6', seems clean
6-8	1438	0.2	0	Grayish brown (5YR3/2) SILT, some f-c Sand, trace f-c gravel (moist)	6'	1" ø PVC 10 slot screen
8-10	1445	0.9	0	Moderate brown (5YR 4/4) f. SAND, little f-m gravel, little silt (moist)		collected sample WB-B5 (8-10) for VOCs, SVOCs, Pest/PCB, TAL-CN
10-12	1448	1.4	0	same (wet)		
						no sand or seal
12-14	1450	1.0	0	same		
				EOB at 14 ft bg. Install 1-in ø PVC well, 10 ft. 10 slot		14'

Soil Stratigraphy Summary ____

Driller: Pacratt. Wolfe
Inspector: S. Pepling
Rig Type: IR A300
Drilling Method: direct push

Dvirka and Bartilucci Boring Log

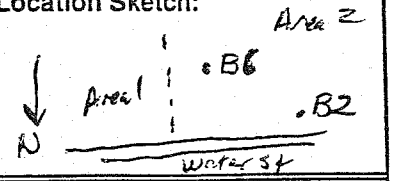
Project Name: Utica-Whitesboro Street
Project #: 1909
Boring Depth: 14'

Boring ID: B6
Sheet 1 of 1
Location: E center side Area 1

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/6/03 - 0832
Finish (Date & Time): 6/6/03 - 1100
Weather: Overcast, upper 50's F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Rec Blows (feet)	PID (ppm)	Field Description	Well Schematic	Comments
				grass		
0-2	1034	0.6	0	Grayish brown (5YR 3/2) SILT, some f-c Sand, trace f. mg gravel (moist)		
				red brick		1" Ø PVC Riser
2-4	1037	0.7	0	red brick		#30 sand or Seal
4-6	1040	0.6	0	red brick and mortar	4'	
				wood		
6-8	1044	0.1	0	Concrete (0.2' thick) concrete (0.1' thick)		
8-10	1047	0.2	0	Moderate brown (5YR 3/4) SILT, some f-m Sand, trace f. c gravel, trace brick (moist)		collected sample WB-B6 (8-10) for VOCs, SVOCs, PEST, PCB, TAL, CN 8 oz jar
10-12	1050	0.3	0	Same (wet)		water at 10' bg
12-14	1055	0.9	0	Moderate brown (5YR 3/4) f. c SAND some silt, trace f. m gravel (wet)		1" Ø PVC 10 slot screen
				EOB at 14 ft bg, install 1-in Ø PVC well	14'	

Soil Stratigraphy Summary _____

Driller: Parratt-Wolff
Inspector: S. Popling
Rig Type: IR A300
Drilling Method: direct push

Dvirka and Bartilucci Boring Log

Project Name: Utica-Whitesboro Street
Project #: 1909
Boring Depth: 14

Boring ID: B7
Sheet 1 of 1
Location: Mid-South Center Area

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/5/03 - 1510
Finish (Date & Time): 6/5/03 - 1535
Weather: Overcast, upper 60°F, rain
Elevation of Ground Surface: _____

Location Sketch: (Center St; B1, B2, B5, B7)

Sample Interval	Sample No.	Blows		Field Description	Well Schematic	Comments
0-2	1512	0.4	0	Dark yellowish brown (10YR 4/2) SILT and f. sand (moist)		
2-4	1513	1.1	0	Brick (red)	1-in Ø PVC riser	1-in Ø PVC riser; No sand or seal
4-6	1515	0.1	0	brick	4'	
6-8	1520	0.9	0	brick Moderate brown (5YR 3/4) f. SAND, some silt, little f. m gravel (moist)		Collect sample @ B7 (6-8) for VOC, SVOC, Part, PCB, T+L, CN
8-10	1524	0.8	0	Dark yellowish brown (10YR 4/2) f.-m SAND, little silt, little f-m gravel (wet)		water @ 8.5'
10-12	1526	0.4	0	same		
12-14	1530	0.7		same	1' Ø PVC 10 slot screen	
				grayish red (10R 4/2) SILT and CLAY, trace f. gravel (moist)		
				EOB at 14 ft bg, install 1-in Ø PVC well 10 ft screen, 10 slot.	14'	

Soil Stratigraphy Summary _____

Driller: Parratt-Wolff
Inspector: S. Pooling
Rig Type: IR-A300
Drilling Method: Direct Push

Dvirka and Bartilucci Boring Log

Project Name: Utica-Whitesboro St.
Project #: 1909
Boring Depth: 14'

Boring ID: B8
Sheet 1 of 1
Location: SW corner Area 1

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/5/03-1627
Finish (Date & Time): 6/5/03-1648
Weather: Overcast, upper 60°F, rain
Elevation of Ground Surface: ____

Location Sketch: Water St
N
B-8
Whitesboro

Sample Interval	Sample No.	Rec (ft) / Blows	PID (ppm)	Field Description	Well Schematic	Comments
0-1	1629	0.7	0	grass Grayish brown (5YR 3/2) SILT, some clay, little f.c. sand (moist)		
2-4	1632	1.0	0	same		1" Ø PVC riser, no sand or seal
4-6	1635	0.4	0	Moderate brown (5YR 3/4) f. SAND, some silt, trace fine gravel (moist)	4'	collected soil sample WB-B8(2-4) for VOCs, SVOCs, pest, PCB, TAL, CN
6-8	1637	0.4	0	same		1" Ø PVC 10 slot screen
8-10	1639	0.4	0	same (wet)		water at 8.5 ft bg
10-12	1641	0.7	0	same		
12-14	1644	1.1	0	same		
				Greyish Red (10R 4/2) SILT and CLAY, trace c. sand (very compact) (moist)	14'	
				EOB at 14 ft bg, install 1-in Ø PVC well, 10 ft 10 slot screen		

Soil Stratigraphy Summary

Driller: Parratt-Wolff
Inspector: S. Pepling
Rig Type: IR A300
Drilling Method: direct push

Dvirka and Bartilucci Boring Log

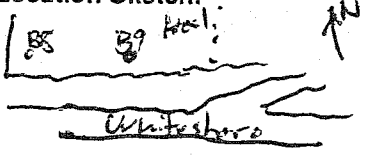
Project Name: Utica Whitesboro St.
Project #: 1909
Boring Depth: 14'

Boring ID: B9
Sheet 1 of 1
Location: South center Area 1

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/4/03 - 0800
Finish (Date & Time): 6/4/03 - 0824
Weather: Overcast, upper 50's F
Elevation of Ground Surface: ____

Location Sketch:



Sample Interval	Sample No.	Rec Blows (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	0802	1.4	0	grass Black (N1) SILT and f. SAND, trace f. gravel (moist		
				Moderate yellowish brown (10YR 5/4) f. SAND, little silt (moist)	1" ϕ PVC riser	
2-4	0804	0.3	0	same	#0 Sand on Seal	
4-6	0806	0.5	0	Moderate yellowish brown (10YR 5/4) SILT and f. SAND (moist)	4'	1" ϕ PVC 10 slot screen
6-8	0810	0.9	0	Moderate brown (5YR 3/4) f. SAND, little silt (moist)		Collected sample WB-B9(6-8) for VOCs, SVOCs, Pest, PCB, TAL (N)
8-10	0812	0.9	0	same - becomes (wet) at 8.5' bg		- water at 8.5' bg
10-12	0815	2.0	0	same		
				-11.5 - becomes sand SILT		
12-14	0818	2.0	0	same		
				Black (5Y 2/1) SILT and CLAY, trace f. gravel (moist)		
				EOB at 14ft bg, install 1-in ϕ PVC well	14'	

Soil Stratigraphy Summary ____

Driller: Parratt-Wolff
Inspector: S. Pedling
Rig Type: IR A300
Drilling Method: direct push

Dvirka and Bartilucci Boring Log

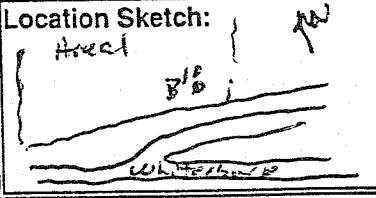
Project Name: Utica-Whitesboro Street
Project #: 1909
Boring Depth: 14'

Boring ID: B10
Sheet 1 of 1
Location: Southeast corner parcel

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/6/08-0825
Finish (Date & Time): 6/6/08-0850
Weather: Overcast, upper 50's F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	Rec ~~Blows~~ (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	0830	0.6	0	grass Grayish black (N2) SILT and f.m GRAVEL, some f.c sand (moist)		
2-4	0832	1.2	0	Moderate brown (5YR3/4) SILT, some clay, little f.m sand, trace f.m gravel (moist) trace red brick	1" Ø PVC Riser #0 sand or Seal	
4-6	0835	0.6	0	Moderate brown (5YR3/4) f.c SAND and SILT, trace f.m gravel (moist)	4'	
6-8	0837	0.8	0	same		collected sample WB-B10 (6-8) for VOCs, SVOCs, Pest, PCB, TAL, CN
8-10	0839	0.7	0	Moderate brown (5YR4/4) f.c SAND little silt, little f.c gravel (moist)		
10-12	0842	0.1	0	gravel fragments		- water at 10' bg
12-14	0845	1.0	0	Dark yellowish brown (10YR4/2) f. SAND, some silt, trace f. gravel (wet).	1" Ø PVC 10 slot screen	
				EOB at 14' bg. install 1-in Ø PVC well	14'	

Soil Stratigraphy Summary _____

Driller: Parratt-Wolff
Inspector: S. Pepling
Rig Type: IR A300
Drilling Method: direct push

Dvirka and Bartilucci Boring Log

Project Name: Utica - Whitesboro St.
Project #: 1909
Boring Depth: 14'

Boring ID: B11
Sheet 1 of 1
Location: NE corner Area 2

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/6/03-0943
Finish (Date & Time): 6/6/03 1005
Weather: Overcast, upper 50°sF
Elevation of Ground Surface: _____

Location Sketch: Water St, BH, Area 2, Division

Sample Interval	Sample No.	Rec Blows (Feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	0945	1.5	0	grass Dark brown (5YR 2/2) SILT, little f-c Sand (moist) Red brick		1" ϕ PVC riser
2-4	0952	0.8	0	Red brick Black (N1) f-c SAND, some silt, trace f. gravel (moist) w/ash		Collect sample WB-B11 (2-4) for VOCs, SVOCs, Pest, PCB, TAL, CN
4-6	0954	0.2	0	same.	4'	
						10/20 Sand or seal
6-8	0956	0.1	0	Grayish brown (5YR3/2) f-c SAND, some silt, trace f. gravel (moist)		1" ϕ PVC 10 slot screen
8-10	0958	1.0	0	Moderate brown (5YR3/4) f-m SAND, some Silt, trace fine gravel (wet)		water at 8' bg
10-12	1000	1.2	0	same		
12-14	1003	2.0	0	same Grayish brown (10R 4/2) SILT and CLAY, trace f. gravel (moist)		14'
				EOB at 14' bg, install 1-in ϕ PVC well		

Soil Stratigraphy Summary _____

Driller: Parratt-Wolff
Inspector: S. Pepling
Rig Type: IR A300
Drilling Method: direct push/HSA

Dvirka and Bartilucci Boring Log

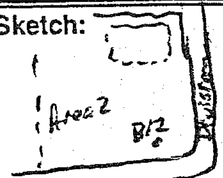
Project Name: Utica-Whitesboro Street
Project #: 1909
Boring Depth: 14'

Boring ID: B12
Sheet 1 of ___
Location: southeast corner Area 2

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/6/03-0858
Finish (Date & Time): 6/6/03-0933
Weather: Overcast, upper 50s F
Elevation of Ground Surface: ______

Location Sketch:



Depth	Sample Interval	Sample No.	Rec (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0	0-2	0859	0.3	0	grass; Red brick		1-in Ø PVC Riser; No sand, or seal
1							
2	2-4	0901	1.2	0	Light olive grey (5Y6/1) f. SAND and SILT (mortar like) layers 0.02' thick w/ paper like separations (moist)		Photo
3							
4	4-6	0905	0.7	0	same; ~~[illegible]~~ Greyish brown (5YR 3/2) SILT, some f.c sand; some red brick (moist)	4'	1-in Ø PVC 10 slot screen
5							
6	6-8	0918	0.1	0	red brick		-refusal at 6 ft; 3¼ HSA to 6.5 ft
7							
8	8-10	0920	1.2	0	Moderate brown (5YR 3/4) f.c SAND, some silt, trace f. gravel (wet)		-water at 8'; collect sample WB-B12(8-10) for VOCs, SVOCs, Pest, PCB, TAL, CN
9							
10	10-12	0926	1.0	0	same		septic-like odor
11					becomes black (N1)		
12	12-14	0930	1.4	0	same		
13					Blackish red (5R 2/2) SILT and CLAY, trace f. gravel (moist)		
14					EOB at 14 ft bg, install 1-in Ø PVC well	14'	
15							

Soil Stratigraphy Summary ______

Driller: Parratt-Wolff
Inspector: S. Pasling
Rig Type: IR 200
Drilling Method: 2-in OD SS direct push

Dvirka and Bartilucci Boring Log

Project Name: Utica-Whitesboro
Project #: 1909
Boring Depth: 10'

Boring ID : B14
Sheet 1 of ____
Location: 25 ft SW of B5

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/1/05-1319
Finish (Date & Time): 6/1/05-1345
Weather: ____
Elevation of Ground Surface: ____

Location Sketch:

Sample Interval	Sample No.	REC ~~Blows~~ (ft)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1320	1.4	0	Lt grey MxC GRAVEL, some f. sand, trace silt (dry)		
				red brick		
2-4	1322	0.2	0	same		
4-6	1328	0.4	0	same		
				DK brown to black silt and wood fragments (damp)		
6-8	1330	1.4	0	Red brick		Collected B14(6-8) for VOC/SVOC
				Med brown f. SAND and SILT, trace f. gravel (damp) 0.1' thick layer of coal mixers		
8-10	1332	0.3	0	Red brick and SILT, some wood		collected B14(8-10) for VOC/SVOC 1-4oz
				wet at 9.8 ft bg		
				EOB at 10 ft bg		

Soil Stratigraphy Summary ____

Driller: Prevost-Wolff
Inspector: SPeoling
Rig Type: IR 200
Drilling Method: 4¼" in HSA/2-inch direct push

Dvirka and Bartilucci Boring Log

Project Name: Utica Watertown
Project #: 1909
Boring Depth: ~~11.0~~ 10.0

Boring ID : B15
Sheet 1 of ___
Location: 25' W of B-5

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/1/05 1348
Finish (Date & Time): 6/1/05-1406
Weather: clear, warm 60°s F
Elevation of Ground Surface: ___

Location Sketch:

Sample Interval	Sample No.	REC Blows/6inch	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1350	1.8	0	MD-DK brown SILT, some f.m sand, trace f. gravel (dry) becomes black		
				Red brick		
2-4	1351	1.3	0	Red brick Black f. SAND, some f. gravel, some silt (dry)		collect sample B15 (2-4) for VOCs and SVOCs
				MD-DK brown SILT, some f. sand, trace m. gravel (dry)		
4-6	1355	1.2	0	Same -becomes med brown -becomes (moist)		
6-8	1359	1.6	0	Med brown f.m SAND, some silt, trace f-m gravel (moist)		collected sample B15(6-8) for VOCs + SVOCs
8-10	1405	1.8	0	Same -wet at 9 ft bg		
				EOB at 10 ft bg		

Soil Stratigraphy Summary ___

Driller: Parratt-Wolff
Inspector: S. Pagling
Rig Type: IR 200
Drilling Method: 4¼ HSA/2-¼ ODSS

Dvirka and Bartilucci Boring Log

Project Name: Utica Whitesboro
Project #: 1909
Boring Depth: 10'

Boring ID: B17
Sheet 1 of ____
Location: 25 ft NW of B5

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/1/05-1450
Finish (Date & Time): 6/1/05-1517
Weather: Partly cloudy, 70°s F
Elevation of Ground Surface: ____

Location Sketch:

	Sample Interval	Sample No.	~~REC~~ ~~Blows~~ (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0	0-2	1452	1.0	0	DK brown SILT, trace m. gravel (dry)		
1					Lt grey f-c GRAVEL; trace f. sand (dry)		
					Md - Lt brown f. m SAND, trace silt (dry)		
2					Red brick		
	2-4	1455	1.7	0	Red brick		collected B17(2-4) for VOCs/SVOCs
					Black Silt and m-gravel (dry)		
3					Med brown SILT, some f. m sand, trace m-gravel (damp)		
4	4-6	1509	1.6	0	DK brown SILT, trace f sand (damp)		
					Red Brick		
5					Med brown SILT, some f. m gravel, little f. m sand (damp)		
6	6-8	1511	1.7	0	same		collected B17(6-8) for VOCs/SVOCs.
7							
8	8-10	1512	0.3	0	same		
9							
10					EOB @ 10 ft bg		
11							

Soil Stratigraphy Summary ____

Driller: Parratt-Wolff
Inspector: S. Pepling
Rig Type: IR 200
Drilling Method: 4¼ HSA/2-in OD SS direct push

Dvirka and Bartilucci Boring Log

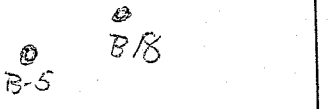
Project Name: Utica Waterfront
Project #: 1009
Boring Depth: _____

Boring ID: B18
Sheet 1 of ____
Location: 25 ft NW of B-5

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/1/05 - 1413
Finish (Date & Time): 6/1/05 - 1442
Weather: clear, warm 60's F
Elevation of Ground Surface: _____

Location Sketch:



	Sample Interval	Sample No.	REC Blows (feet)	MD (feet)	Field Description	Well Schematic	Comments
0	0-2	1414	0.9	0	Med brown SILT, some f. Sand, trace m. gravel (dry)		
1							
2	2-4	1416	1.0	0	Red brick Med brown SILT, some f. Sand, trace f. gravel (damp)		
3					Lt grey f. SAND and m. GRAVEL, trace silt (damp) - weathered concrete		
4	4-6	1428	1.2	0	DK brown to black SILT and f.-m. SAND, trace f.-m. gravel (damp)		collected B18(4-6) for VOCs + SVOCs
5							
6	6-8	1430	0.9	0	Same w/ some coal fragments		
7							
8	8-10	1432	1.0	0	Med brown f. SAND, some silt, trace f. gravel (moist)		collected B18(8-10) for VOCs + SVOCs
9							
10					-bec comes wet at 9.8' EOB at 10 ft bgs		
11							
12							

Soil Stratigraphy Summary _____

Driller: Parratt-Wolff
Inspector: S. Repling
Rig Type: ER A200
Drilling Method: 4 1/4 HSA

Dvirka and Bartilucci Boring Log

Project Name: Utica Whitesboro
Project #: 1909
Boring Depth: 14'

Boring ID: B5/MW1
Sheet 1 of 1
Location: SW of B5 by 25'

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/1/05 · 1115
Finish (Date & Time): 6/1/05-1240
Weather: Clear, warm 60's F
Elevation of Ground Surface: _____

Location Sketch:

B5
MW1
estimate 100,100

Sample Interval	Sample No.	REC Blows (ft)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1116	0.8	1.6	Grayish brown (5YR 3/2) SILT and f. SAND, trace f. gravel (dry-damp)		
2-4	1123	0.9	0	Red brick		2 3
4-6	1126	0.9	0	same		4 collected MW1 (4-6) for VOCs + SVOCs
6-8	1131	NR	0	Mod brown SILT, some f. sand, trace f. gravel (damp)		
8-10	1133	0.7	0	Moderate brown (5YR 4/4) f. SAND, little f. gravel, little silt (moist)		collected MW1 (8-10) for VOCs + SVOCs
				-becomes wet at 9.8		
				EOB @ 14 ft bg install well		14.0

Soil Stratigraphy Summary _____

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Utica Whitesboro St Job No. 1909 Well No. MW-1

Total Depth 14 ft Surface Elevation _____ Top Riser Elevation _____

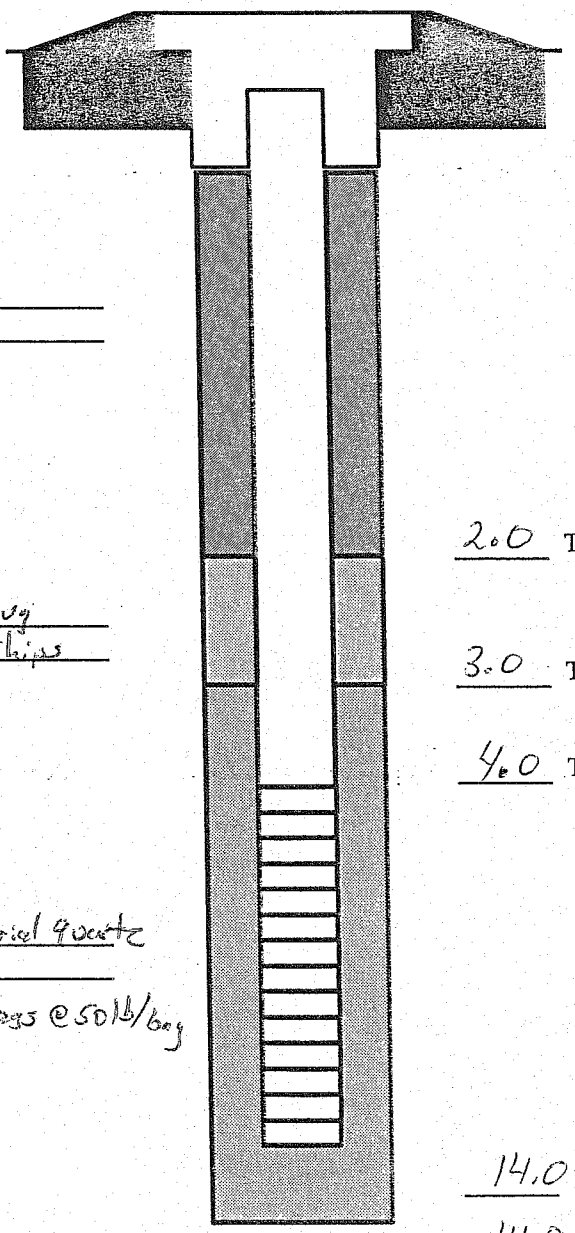
Water Levels (Depth, Date, Time) _____ Date Installed 6/1/05

Riser Dia. 2-in Material PVC Length 4 ft
Screen Dia. 2-in Material PVC Length 10 ft Slot Size 10

SCHEMATIC

Surface Seal Type _____

Ground Surface
_____ Riser Elevation
_____ Bottom Surface Seal



Grout Type _____

Seal Type Envirosplug
Medium Chips
1 bag

2.0 Top Seal

3.0 Top Sand Pack

4.0 Top Screen

Sand Pack Type Industrial quartz
Size #1
6.5 bags @ 50lb/bag

14.0 Bottom Screen

14.0 Total Depth of Boring

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Utica Whitesboro St Job No. 1909 Well No. MW-2

Total Depth 14 Ft Surface Elevation _____ Top Riser Elevation _____

Water Levels (Depth, Date, Time) _____ Date Installed 6/1/05

Riser Dia. 2-in Material PVC Length 4 ft
Screen Dia. 2-in Material PVC Length 10 ft Slot Size 10

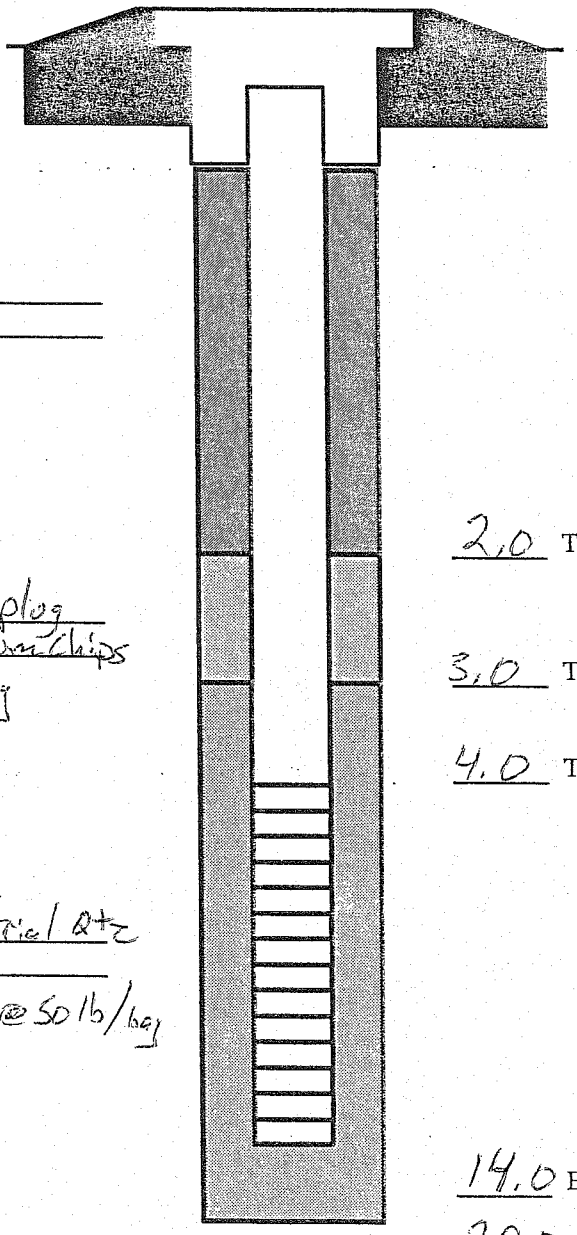
SCHEMATIC

Surface Seal Type
Concrete

Grout Type N.A

Seal Type Enviroplug medium chips
1 bag

Sand Pack Type Industrial Qtz
Size #1
6 bags @ 50 lb/bag



Ground Surface
_____ Riser Elevation
_____ Bottom Surface Seal

2.0 Top Seal

3.0 Top Sand Pack

4.0 Top Screen

14.0 Bottom Screen

20.0 Total Depth of Boring

Driller: Parratt-Wolff
Inspector: S. Perkins
Rig Type: TR 200
Drilling Method: 4 1/4 HSA/2-in OD SS

Dvirka and Bartilucci Boring Log

Project Name: Utica-Whitesboro
Project #: 1909
Boring Depth: _____

Boring ID: B16/MW2
Sheet 1 of ____
Location: 25 ft NW of B5

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/1/05 - 1530
Finish (Date & Time): _____
Weather: clear, warm 60°s F
Elevation of Ground Surface: _____

Location Sketch:

	Sample Interval	Sample No.	~~PID~~ REC Blows (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0	0-2	1532	1.0	0	Mod brown SILT, trace m. gravel (dry) Redbrick		
1							
2	2-4	1534	0.2	0	Red brick.		
3							
4	4-6	1542	0.8	0	Dk brown f.-m SAND, some silt, little f.-c gravel (moist)		
5							
6	6-8	1556	1.3	0.3	Lt grey f.-c GRAVEL and f.-c SAND, little silt (dry) weathered concrete		collect MW2(6-8) for VOCs/SVOC
7					Dark Brown f. SAND, some silt (moist)		
8	8-10	1558	0.9	0.1	Dark Brown f.-c SAND, some silt (moist)		collected MW2(8-10) for VOCs/SVOCs
9					wet at 9.5		
10	10-12	1605	0.8	0.0	Dark Brown f.-c SAND, some silt, trace m. gravel (wet)		
11							
12	12-14	1610	0.8	0	Same		
13							
14	14-16	1612	1.1	0	Same		
15					becomes dark grey-brown		
16	16-18	1615	1.0	0	Same		
17							
18	18-20	1618	2.0	0	~~Mod grey brown SILT and CLAY, trace~~ Same		
19							
20					Mod grey brown SILT and CLAY, trace f.-c gravel (damp) (dense)		

Soil Stratigraphy Summary: EOB at 20' bg Install well

Driller: Parratt-Wolff
Inspector: S. Peeling
Rig Type: IR 200
Drilling Method: 4¼ HSA, 2-in OD SS direct push

Dvirka and Bartilucci Boring Log

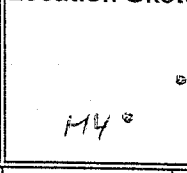
Project Name: Utica Whitesboro St.
Project #: 1909
Boring Depth: 14.0

Boring ID: MW3
Sheet 1 of 1
Location: SW of B1
NE of MW4

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/2/05-0910
Finish (Date & Time): 6/2/05-1053
Weather: Partly cloudy, 60's F
Elevation of Ground Surface: _____

Location Sketch:



Sample Interval	Sample No.	PID Blows (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	0914	0.5	0	Med brown SILT, little f.c sand, trace f. gravel (dry)		
2-4	0916	0.4	0	same, w/ red brick, wood	2.0 / 3.0	
4-6	0932	0.1	0		4.0	-4-6' refusal at 4.1 - concrete
6-8	0945	0.9	0	Med brown f.c SAND, some silt, trace f.m gravel (damp)		collected MW3(6-8) for VOCs/SVOCs
8-10	0950	0.6	0	Med brown f.c SAND, some silt, little f.c gravel (wet)		-wet @ 8'
				EOB @ 14 ft Install well.	14.0	

one sample only, due to poor recovery, lack of PID readings

Soil Stratigraphy Summary _____

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Utica-Whitesboro St Job No. 1909 Well No. MW3

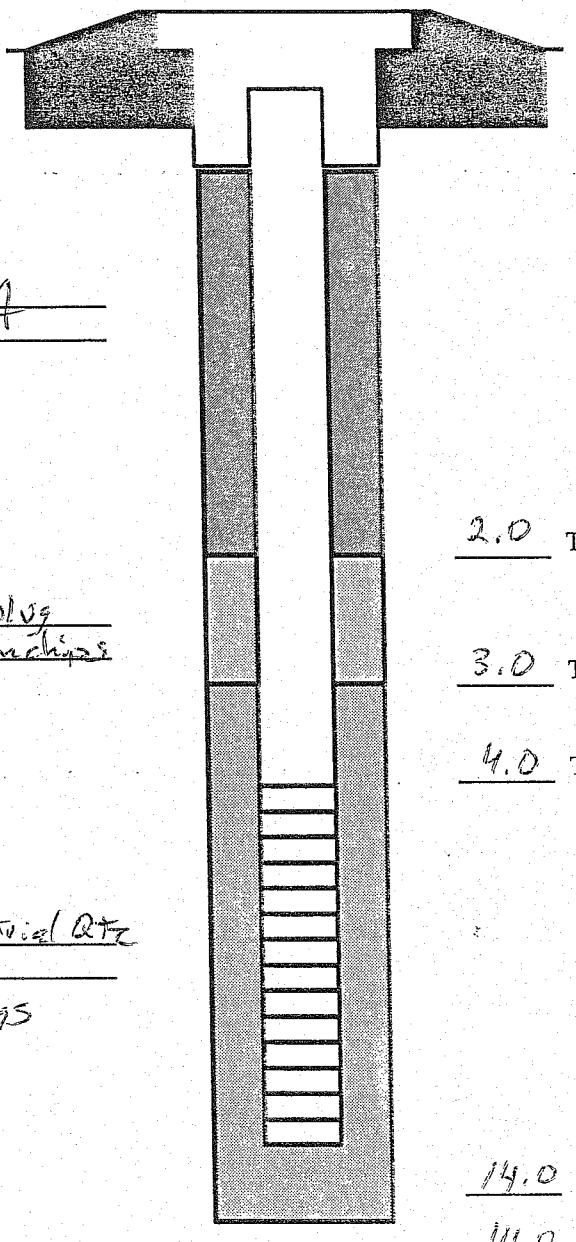
Total Depth 14.0 Surface Elevation _____ Top Riser Elevation _____

Water Levels (Depth, Date, Time) _____ Date Installed 6/2/05

Riser Dia. 2-in Material PVC Length 4 ft
Screen Dia. 2-in Material PVC Length 10 ft Slot Size 10

SCHEMATIC

Surface Seal Type
Concrete
flush mount



Ground Surface
_____ Riser Elevation
_____ Bottom Surface Seal

Grout Type NA

Seal Type Enviroplug
Medium chips

Sand Pack Type Industrial Qtz
Size #1
6 bags

2.0 Top Seal

3.0 Top Sand Pack

4.0 Top Screen

14.0 Bottom Screen

14.0 Total Depth of Boring

Driller: Parratt-Wolff
Inspector: Sean Replogle
Rig Type: IR 200
Drilling Method: 4 1/4 HSA · 2" ODSS direct push

Dvirka and Bartilucci Boring Log

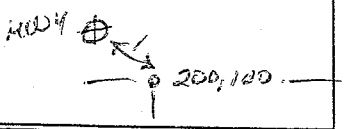
Project Name: Utica-Whitesboro St
Project #: 1909
Boring Depth: 14

Boring ID: MW4
Sheet 1 of 1
Location: NW of grid 200,100

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/2/05 - 0730
Finish (Date & Time): 6/2/05 - 0900
Weather: Partly Cloudy, warm 60s
Elevation of Ground Surface: ____

Location Sketch:



Sample Interval	Sample No.	Rec Blows (per 6")	PID (ppm)	Field Description	Well Schematic	Comments
0-2	0730	0.8	0.3	Med brown SILT, trace f. gravel (dry)		
				Redbrick		
2-4	0733	0.9	0.7	Redbrick	2.0	
					3.0	
4-6	0735	1.1	3.1	Dk brown to black SILT and f-c SAND, trace f-m Gravel (damp)	4.0	Collect MW4 (4-6) for VOC/SVOC
6-8	0748	1.0	0	Med brown SILT, trace f. sand, trace f. gravel (damp-moist)		Collect MW4 (6-8) for VOC/SVOC
8-10	0752	1.3	0	Same		
10-12	0808	1.2	0	Med brown f-c SAND, some silt, little f-c gravel (wet)		
				EOB @ 14 ft bg, install well	14	

Soil Stratigraphy Summary ____

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Utica Whitesboro Street Job No. 1909 Well No. MW4

Total Depth 14.0 Surface Elevation _____ Top Riser Elevation _____

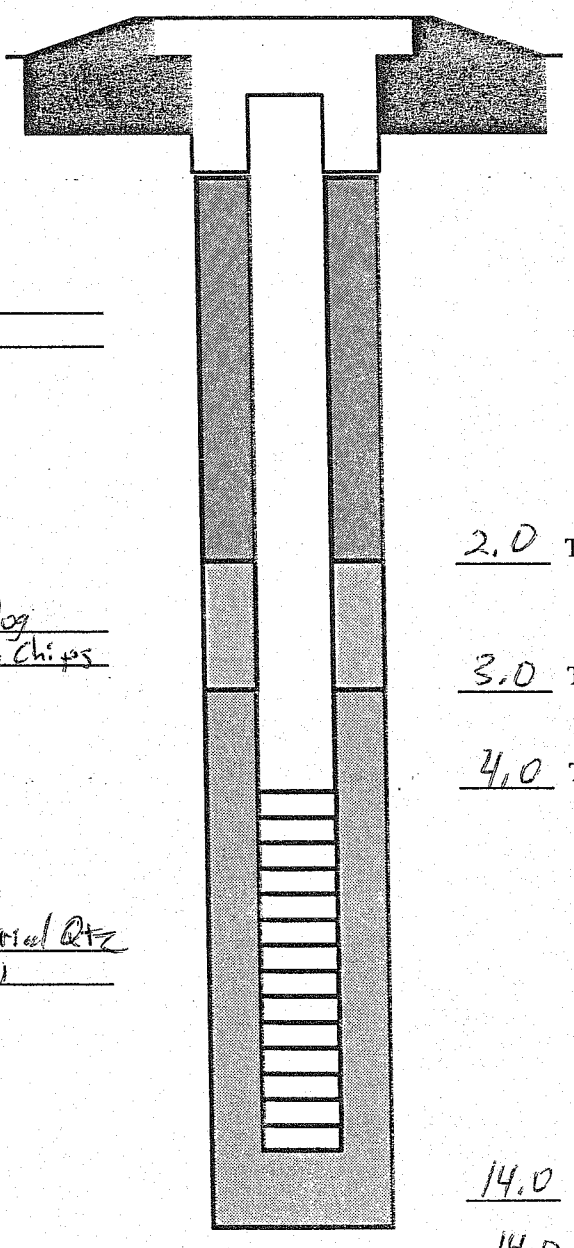
Water Levels (Depth, Date, Time) _____ Date Installed 6/2/05

Riser Dia. 2-in Material PVC Length 4 Ft

Screen Dia. 2-in Material PVC Length 10 ft Slot Size 10

SCHEMATIC

Surface Seal Type Concrete Flush mount



Ground Surface

_____ Riser Elevation

_____ Bottom Surface Seal

Grout Type NA

2.0 Top Seal

Seal Type Enviroplug Medium Chips

3.0 Top Sand Pack

4.0 Top Screen

Sand Pack Type Industrial Qtz

Size #1

6 bags

14.0 Bottom Screen

14.0 Total Depth of Boring

Driller: Powell-Wolff
Inspector: S. Peeling
Rig Type: IR 200
Drilling Method: 4¼ HSA/2-in OD SS direct push

Dvirka and Bartilucci Boring Log

Project Name: Utica - Whitesboro St
Project #: 1909
Boring Depth: 14'

Boring ID : MW5
Sheet 1 of 1
Location:

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/2/05 - 1350
Finish (Date & Time): 6/2/05 - 1533
Weather: Partly cloudy 70°F
Elevation of Ground Surface:

Location Sketch:
MW6 ○ ○ MW5
Water Tower / St

Sample Interval	Sample No.	REC ~~Blows~~ (feet)	PID (ppm)	Field Description	Well Schematic	Comments
~~0-2 BS~~						
4-6	1404	0.5	0	Red brown f. SAND and SILT, trace f. gravel (damp)		
6-8	1407	1.4	0	DK grey brown SILT, some clay, trace f.-m gravel (moist)		
8-10	1428	1.4	0	DK brown SILT, little clay (moist), organic Med brown f.-m SAND, some silt, trace f. gravel (wet)		wet @ 9' bg
				EOB @ 14 ft install well	2.0 3.0 4.0 14.0	

Soil Stratigraphy Summary

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Utica Whitesboro St Job No. 1909 Well No. HW5

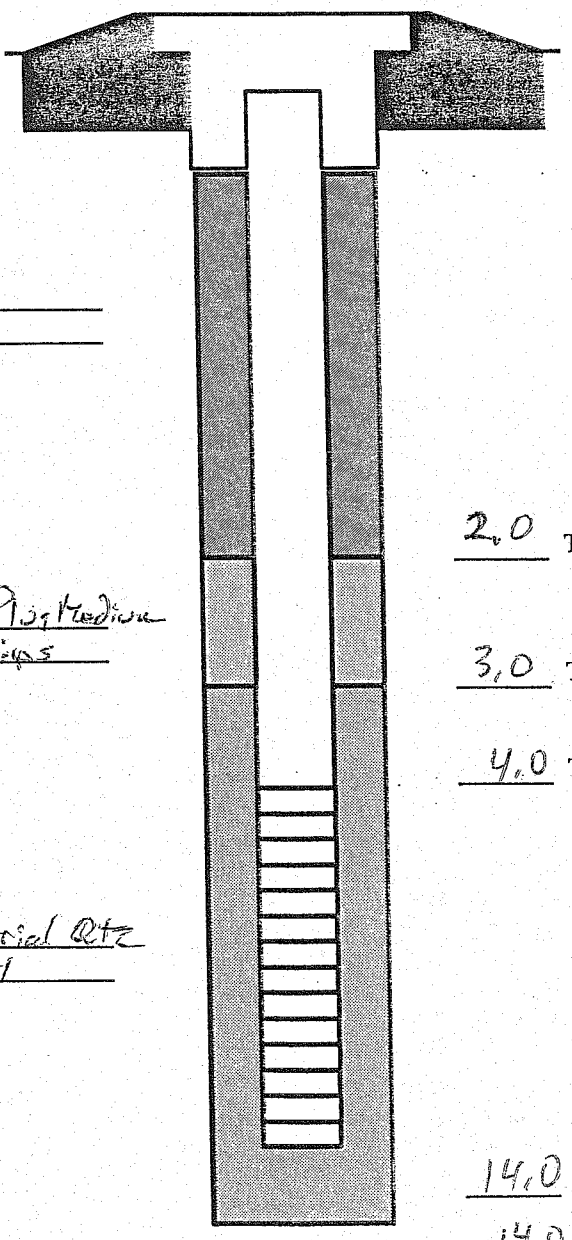
Total Depth _____ Surface Elevation _____ Top Riser Elevation _____

Water Levels (Depth, Date, Time) _____ Date Installed 6/2/05

Riser Dia. 2-in Material PVC Length 4 ft
Screen Dia. 2-in Material PVC Length 10 ft Slot Size 10

SCHEMATIC

Surface Seal Type: Concrete Flushmount



Ground Surface
_____ Riser Elevation
_____ Bottom Surface Seal

Grout Type: N/A

2.0 Top Seal

Seal Type: Enviroplug Medium Chips

3.0 Top Sand Pack

4.0 Top Screen

Sand Pack Type: Industrial Qtz
Size: #1

14.0 Bottom Screen

14.0 Total Depth of Boring

Driller: Parratt-Wolff
Inspector: S. Pepling
Rig Type: IR 200
Drilling Method: 4¼ HSA 2-in. OD SS

Dvirka and Bartilucci Boring Log

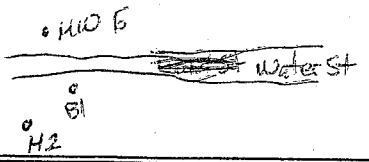
Project Name: Utica-Whitesboro St
Project #: 1909
Boring Depth: 14.0

Boring ID : MW6
Sheet 1 of 1
Location: NW of B1

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/2/05 - 1100
Finish (Date & Time): 6/2/05 - 1325
Weather: Partly Cloudy, warm 70°s F
Elevation of Ground Surface: ____

Location Sketch:



Sample Interval	Sample No.	REC ~~Blows~~ (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1102	2.0	0	DK brown to black, SILT, little f-c sand, little f-c gravel, coal (dry)		
				Med brown f-m SAND, little silt (damp)		
2-4	1104	0.9	0	Med-DK brown-grey SILT and CLAY (damp)		2.0 3.0
4-6	1112	2.0	0	same		4.0
				DK brown to black f-m SAND and silt, (damp)		- petroleum-like odor begin ~5 ft bg
6-8	1115	2.0	2.4			collected MW6(6-8) for VOC/SVOC
				DK brown f-c SAND, some silt (moist)		
			53.1	wet at 7.5'		- water @ 7.5'
8-10	1120	1.1	29.1	same		petroleum-like odor
			49.0			"
10-12	1130	0.7	2.3	DK brown SILT, some clay, little f. sand (wet)		
12-14	1132	1.4	0	DK brown f-m SAND, little silt (wet)		slight petroleum-like odor
				EOB @ 14 ft bg Install well.		14.0

Soil Stratigraphy Summary ____

Dvirka and Bartilucci CONSULTING ENGINEERS
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Well Construction Log

Site Utica - Whitesboro St Job No. 1909 Well No. MW6

Total Depth 14.0 Surface Elevation _____ Top Riser Elevation _____

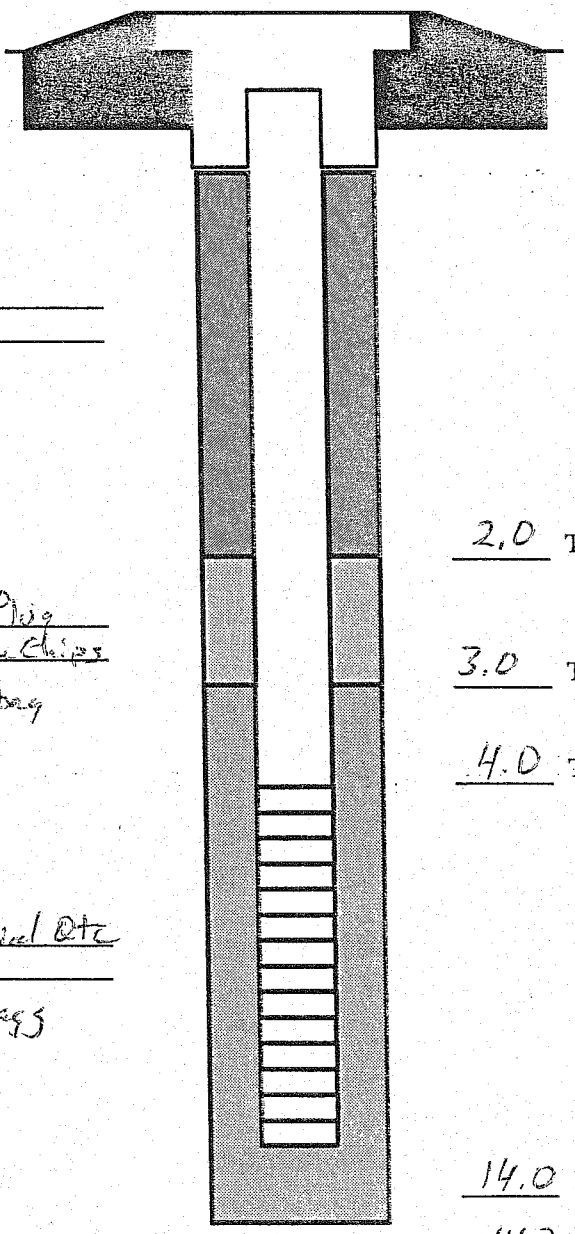
Water Levels (Depth, Date, Time) _____ Date Installed 6/2/05

Riser Dia. 2-in Material PVC Length 4 ft
Screen Dia. 2-in Material PVC Length 10 ft Slot Size #10

SCHEMATIC

Surface Seal Type Concrete flushmount

Ground Surface
_____ Riser Elevation
_____ Bottom Surface Seal



Grout Type NA

2.0 Top Seal

Seal Type EnviroPlug medium chips 1/2 bag

3.0 Top Sand Pack

4.0 Top Screen

Sand Pack Type Industrial Qtz
Size #1
6 bags

14.0 Bottom Screen

14.0 Total Depth of Boring

Driller: Pacratt-Wolff
Inspector: S. Pepling
Rig Type: IR 200
Drilling Method: 4¼ HSA, 2¼ DSS direct push

Dvirka and Bartilucci Boring Log

Project Name: Utica-Whitesboro St
Project #: 1909
Boring Depth: 14.0

Boring ID: MW-7
Sheet 1 of 1
Location: E side of Hotel Street

Groundwater Observations			
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/2/05 - 1540
Finish (Date & Time):
Weather: Partly cloudy, 70's F
Elevation of Ground Surface:

Location Sketch: Water St; N; MW-7; 10 ft

Sample Interval	Sample No.	REC Blows (feet)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	1542	1.5	0	DK brown to black SILT and f-m SAND, some f-m Gravel (cinder) (coal)		
2-4	1544	0.7	0	Med Brown SILT, little f-c sand, trace f-c gravel, trace clay, brick (demo)		2.0 3.0
4-6	1548	1.2	0	Same		4.0
				Med brown f-c SAND, some silt, little f-c gravel (demo)		
6-8	1550	0.8	0	Same		
8-10	1552	1.2	0	Same - wet @ 8'		- water @ 8'
				EOB @ 14 ft install well		14.0

Soil Stratigraphy Summary

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Utica-Whitesboro St Job No. 1909 Well No. MW-7

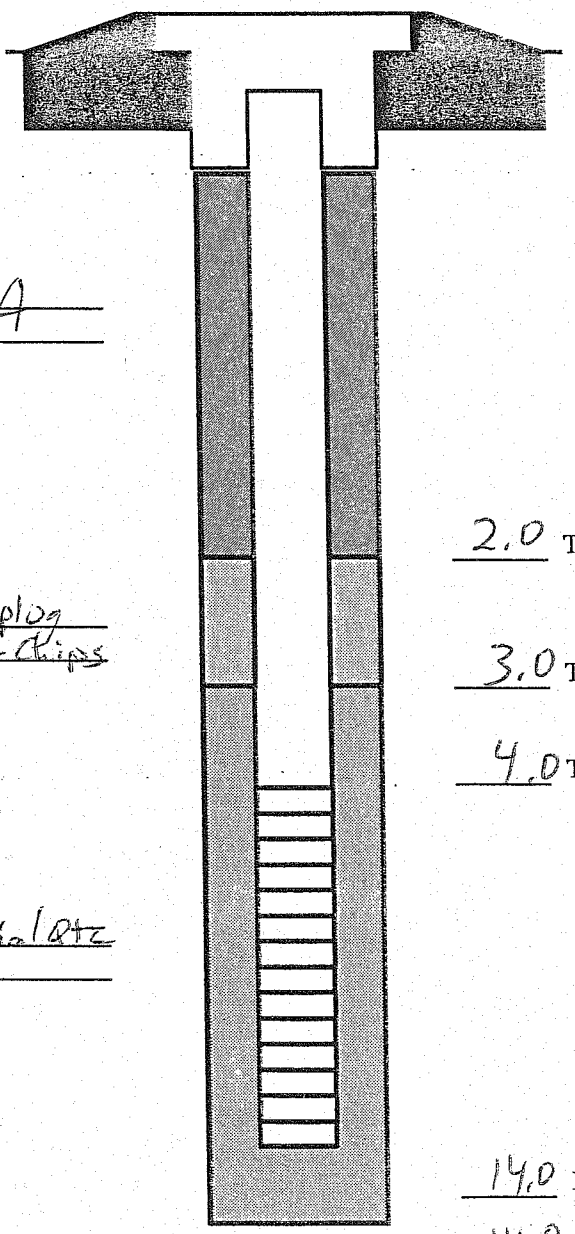
Total Depth _____ Surface Elevation _____ Top Riser Elevation _____

Water Levels (Depth, Date, Time) _____ Date Installed 6/2/05

Riser Dia. 2-in Material PVC Length 4-ft
Screen Dia. 2-in Material PVC Length 10 ft Slot Size 10

SCHEMATIC

Surface Seal Type
Concrete
Flushmount



Ground Surface
_____ Riser Elevation
_____ Bottom Surface Seal

Grout Type N/A

2.0 Top Seal

Seal Type Enviroplug
Medium Chips

3.0 Top Sand Pack

4.0 Top Screen

Sand Pack Type Industrial Qtz
Size #1

14.0 Bottom Screen

14.0 Total Depth of Boring

Driller: Parratt Wolff
Inspector: S. Pepling
Rig Type: IR 200
Drilling Method: _____

Dvirka and Bartilucci Boring Log

Project Name: Utica Whitesboro St
Project #: 1909
Boring Depth: _____

Boring ID : MW-8
Sheet 1 of _____
Location: _____

	Groundwater Observations		
Date			
Time			
DTW			
Casing/Total Depth			

Start (Date & Time): 6/1/05-0931
Finish (Date & Time): 6/1/05-1100
Weather: _____
Elevation of Ground Surface: _____

Location Sketch:

Sample Interval	Sample No.	Rec Blows (ft)	PID (ppm)	Field Description	Well Schematic	Comments
0-2	0932	1.5	0	Dark Brown (5YR2/1) SILT, little f. C Sand, trace m. gravel (damp)		flush mount
				Red Brick		
				Lt grey f. SAND and m. GRAVEL, little silt (dry)		
2-4	0940	0.5	0	Black (N1) f. C SAND, some silt, trace f. gravel (damp) trace brick and ash	2	collected MW8 (2-4) for VOCs + SVOCs
					3'	
4-6	0945	1.8	0	same	4	
				Dark Brown (5YR2/2) SILT, some f. Sand, trace m. gravel, trace clay (moist)		
6-8	0949	1.8	0	same		collected MW8 (6-8) for VOCs + SVOCs
						some wood at 7.5
8-10	0952	1.4	0	Med brown SILT and f. SAND, trace clay (moist)		
				becomes wet		water ~ 9' bg
					14.0	
				EOB @ 14 ft bg		
				Install well		

Soil Stratigraphy Summary _____

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Utica - Whitesboro St Job No. 1909 Well No. MW-8

Total Depth 14 ft Surface Elevation _____ Top Riser Elevation _____

Water Levels (Depth, Date, Time) _____ Date Installed 6/1/05

Riser Dia. 2-in Material PVC Length _____

Screen Dia. 2-in Material PVC Length 10 ft Slot Size 10

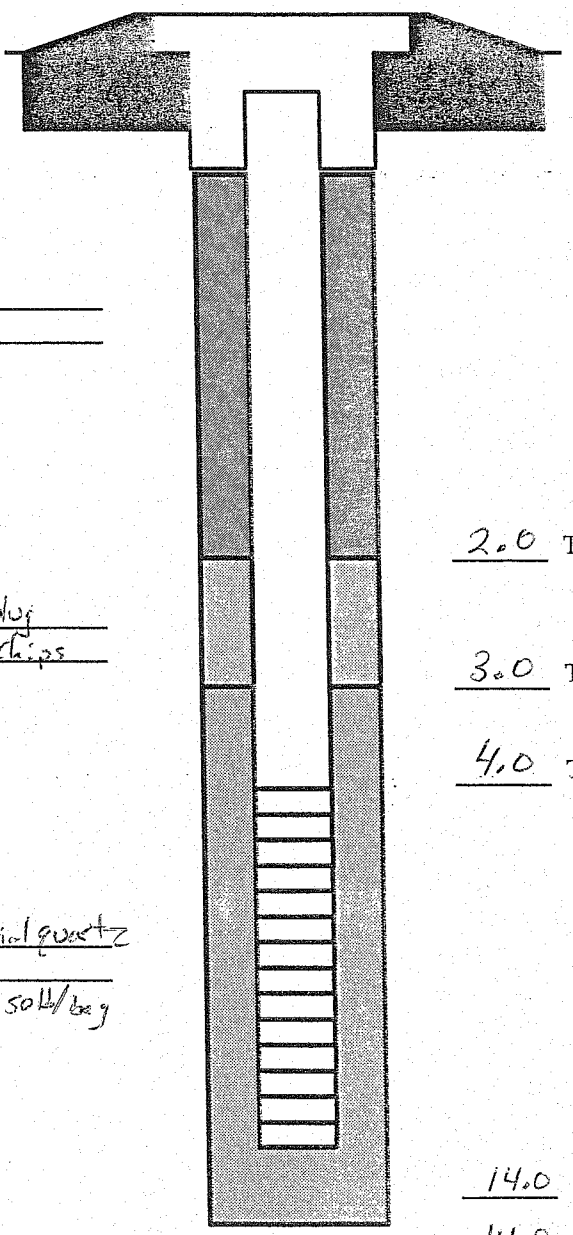
SCHEMATIC

Surface Seal Type _____

Ground Surface

_____ Riser Elevation

_____ Bottom Surface Seal



Grout Type _____

2.0 Top Seal

Seal Type Envirosplug medium chips 1 bag

3.0 Top Sand Pack

4.0 Top Screen

Sand Pack Type Industrial quartz

Size #1

6 bags @ 50lb/bag

14.0 Bottom Screen

14.0 Total Depth of Boring

Well Development Data Sheet

Site Name: Utica Whitesboro Job Number: 1909 Date: 7/5/06 Well ID: MW-1

On Site Personnel: Sean Pepling / Jim Magda

Weather Conditions: See logbook

13.87
8.57
5.30
.16
3180
530
8480

Static water level before development: 8.57

Bottom of well: 13.87

Development Technique

- (bailing)
- peristaltic pump
- air lift
- other
- 12 volt submersible
- (surge block)
- ~~trash pump~~ w/foot valve

Date	Water Removal Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observations/Comments
7/5/06	1019	1025	~~6~~ NA 0	0	0	—	—	—	—	Surged with surge block
7/5/06	1029	1029	NA	0	0	6.03	1.14	>999	12.3	Post surge / Pre-bail
7/5/06	1030	1035	5	~1 gpm	5	6.15	1.20	>999	11.9	
7/5/06	1036	1041	8 11	~1 gpm	5 (10)	6.05	1.38	>999	12.7	
7/5/06	1045	1052	22	~1 gpm	5 (15)	6.10	1.30	>999	12.9	

3/26/03

Well Development Data Sheet

Site Name: Utica Whiteboro Job Number: 1909 Date: 7/5/06 Well ID: MW-2

On Site Personnel: Jim Magda/Sean Repling

0940-0945 Surge w/ 3/4" ID PVC riser + 2" Surge block

Weather Conditions: Sealoghoor

Development Technique

- (bailing)
- peristaltic pump
- air lift
- other
- 12 volt submersible
- (surge block)
- trash pump w/foot valve

0936

Static water level before development: 7.87

Bottom of well: 13.90

3 well volumes 2.89 gallons

Date	Water Removal Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	SU pH	MS/cm Cond.	NTU Turb	°C Temp	Observations/Comments
7/5/06	0947	0957	10		5	5.58	1.01	>999	13.3	water brown/very turbid
7/5/06	0959	1006	7		5	5.72	1.00	7999	12.7	Same as above
7/5/06	1008	1014	~~7~~ 6		5	5.69	1.17	>999	12.3	Same as above

Well Development Data Sheet

Site Name: Utica Whitesboro Job Number: 1909 Date: 7/5/06 Well ID: MW-3

On Site Personnel: Jim Magda / Sean Peplinski

1034 Surge well w/ 3/4" ID PVC riser + 2" surge block
1039 Complete Surge

Weather Conditions: See logbook

Development Technique

- (bailing)
- peristaltic pump
- air lift
- 12 volt submersible
- (surge block)
- trash pump w/foot valve
- other

Static water level before development: 8.57 From logbook Page

Bottom of well: 13.90

13.90' - 8.57' = 5.33 x .16 = 0.85 gallons

Date	Water Removal Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observations/Comments
7/6/05	1040	1055	15		3	6.06	1.99	>999	14.0	Turbid Brown/well dry @ 3 gallons
7/6/05	1057	1106	9		2	5.91	1.98	>999	13.0	Turbid Brown/well dry after 2 gallons

Well Development Data Sheet

Site Name: Univ. of Conn. Tech Job Number: 1909 Date: 7/5/06 Well ID: MW-4

On Site Personnel: Jim Magda / Seven Pooling

Weather Conditions: see logbook

Development Technique

- (bailing)
- peristaltic pump
- air lift
- 12 volt submersible
- (surge block)
- trash pump w/foot valve
- other

Static water level before development: 8.29" TPVC 0900

Bottom of well: 13.85

13.85' − 8.29 = 5.56 × .16 = 0.89 gallons

0901 Surge well w/ 3/4" ID PV riser + 2" block

0906 Stop Surg

0927 Stop Pu well dry Allow it recover

Date	Water Removal Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	SU pH	ms/cm Cond.	NTU Turb	°C Temp	Observations/Comments
7/5/06	0917	0927	10		4 1/2	5.46	1.46	7999	13.3	water brown/very turbid/well dry

Well Development Data Sheet

Site Name: Utica Whitesboro Job Number: 1909 Date: 7/5/06 Well ID: MW-5

On Site Personnel: Jim Magda / Sean Pepling

Weather Conditions: See logbook

Static water level before development: 6.92

Bottom of well: 13.85

13.85
6.92
6.93
.16
4 15's
693
1088

1.11 gal/vol

Development Technique

- (bailing)
- peristaltic pump
- air lift
- 12 volt submersible
- (surge block)
- trash pump w/foot valve
- other

Date	Water Removal Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observations/Comments
7/5/06	1200	1205	5	—	—	5.96	0.746	>999	15.0	~~pre-surge~~ post surge / pre-bail
7/5/06	1210	1221	11		5	5.72	0.771	>999	13.0	Dark brown / turbid
7/5/06	1223	1237	14		5	5.49	0.848	>999	13.4	same as above / slow recharge

Well Development Data Sheet

Site Name: Utica Whitesboro Job Number: 1909 Date: 7/5/06 Well ID: MW-6

On Site Personnel: Sean Pepling / Jim Magda

Weather Conditions: See logbook

Static water level before development: 4.85

Bottom of well: 13.80

13.80
4.85
8.95
.16
5370
895
1432.0 1.43 gal/vol

Development Technique

- (bailing)
- peristaltic pump
- air lift
- other
- 12 volt submersible
- (surge block)
- trash pump w/foot valve

Water Removal Date	Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observations/Comments
7/5/06	1209	1214	5	—	—	5.89	0.589	7999	13.9	post surge/pre bail - odor + sheen
7/5/06	1215	1228	19	~gpm	5	5.73	0.599	>999	13.7	
7/5/06	1229	1244	35	~liter/min	5(10)	6.04	0.549	7999	13.9	well dry

Well Development Data Sheet

Site Name: Utica Whitesboro Job Number: 1909 Date: 7/5/06 Well ID: MW-17

On Site Personnel: Sean Pepling / Jim Magda

Weather Conditions: see logbook

Static water level before development: 6.05

Bottom of well: 13.85

13.85
6.05
7.80
.16
4.80
78.0
12.480
1.25 gal/vol

Development Technique

- (bailing)
- peristaltic pump
- air lift
- other

- 12 volt submersible
- (surge block)
- trash pump w/foot valve

Date	Water Removal Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observations/Comments
7/5/06	1106	1111	5	—	—	6.66	0.620	>999	14.7	post surge/pre-bail
7/5/06	1115	1121	15	~1 gpm	5 gal	6.33	0.539	>999	15.1	
7/5/06	1122	1127	21	~1 gpm	5 (10)	6.04	0.518	7999	15.4	
7/5/06	1128	1133	27	~1 gpm	5 (15)	6.01	0.510	>999	15.7	

Well Development Data Sheet

Site Name: Utica Whitesboro Job Number: 1909 Date: 7/5/06 Well ID: MW-8

On Site Personnel: Sean Pepling / Jim Magda

Weather Conditions: see logbook

Static water level before development: 6.63

Bottom of well: 13.80

13.80
6.63
7.17
.16
4302
719
1147.2 1.15 gal/vol

Development Technique

- (bailing)
- peristaltic pump
- air lift
- other
- 12 volt submersible
- (surge block)
- trash pump w/foot valve

Date	Water Removal Start	Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observations/Comments
7/5/06	1140	1145	5	—	—	5.92	1.09	7999	13.3	Post Surge/Pre-bail
7/5/06	1146	1151	11	~1gpm	5	6.02	1.01	7999	12.8	
7/5/06	1152	1157	17	~1gpm	5 (10)	5.92	1.01	7999	13.1	
7/5/06	1158	1202	22	~1gpm	5 (15)	5.89	1.02	7999	13.3	

APPENDIX D

CHAIN OF CUSTODY, SHIPPING AND SAMPLE INFORMATION RECORDS

MITKEM CORPORATION
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Warwick, Rhode Island 02886-1755
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email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Dvirka Partilucci	PHONE 3154371112	COMPANY	PHONE	LAB PROJECT #:
NAME Sean Pepling	FAX 3154371282	NAME	FAX	
ADDRESS PO Box 66, 5879 Fisher Road		ADDRESS SAME		TURNAROUND TIME:
CITY/ST/ZIP East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica - Whitesboro St	1909	1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs	TCL SVOCs	TCL Pest/PCB	TAL Metals	Cyanide	COMMENTS
WB-B1 (6-8)	6-5-03 / 1010		X		X			2	X	X	X	X	X	
WB-B2 (6-8)	/ 1113		X		X			2	X	X	X	X	X	
WB-B5 (8-10)	/ 1445		X		X			2	X	X	X	X	X	
WB-B7 (6-8)	/ 1520		X		X			2	X	X	X	X	X	
WB-B4 (8-10)	/ 1606		X		X			1	X	X	X	X	X	
WB-B8 (2-4)	/ 1632		X		X			2	X	X	X	X	X	
WB-B9 (6-8)	6-6-03 / 0810		X		X			2	X	X	X	X	X	
WB-B10 (6-8)	/ 0837		X		X			2	X	X	X	X	X	
WB-B12 (8-10)	/ 0920		X		X			2	X	X	X	X	X	
WB-B11 (2-4)	/ 0952		X		X			2	X	X	X	X	X	
WB-B6 (8-10)	/ 1047		X		X			1	X	X	X	X	X	
WB-B3 (4-6)	/ 1135		X		X			2	X	X	X	X	X	

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
	Sean Pepling	6/6/03 / 1800		/	6/00 NYSDEC ASP	
		/		/		
		/		/		

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Dinka + Bartilucci	PHONE 3154371142	COMPANY	PHONE	LAB PROJECT #:
NAME Sean Peplinski	FAX 3154371282	NAME SAME	FAX	
ADDRESS PO Box 56, 5579 Fisher Road		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica-Whitesboro St	1909	1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: 8260 TCL VOCs 8/4/03	TCL SVOCs	TCL Pest/PCB	TAL Metals	Cyanide	COMMENTS
WB-551	6-6-03/1250		X		X			4	X	X	X	X	X	NO VOCs
WB-552	/1255		X		X			4	X	X	X	X	X	
WB-553	/1305		X		X			4	X	X	X	X	X	
WB-554	/1300		X		X			4	X	X	X	X	X	
WB-555	/1320		X		X			4	X	X	X	X	X	
WB-556	/1325		X		X			4	X	X	X	X	X	
WB-557	/1335		X		X			4	X	X	X	X	X	
WB-558	/1330		X		X			4	X	X	X	X	X	
	/													
	/													
	/													
	/													

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
	Sean Peplinski	6/6/03 1800		/	6/00 NYSDEC ASP	
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		/		/		

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY: Dvirka + Bartilucci	PHONE: 315 437 1142	COMPANY	PHONE	LAB PROJECT #:
NAME: Sean Pepling	FAX: 315 437 1282	NAME: SAME	FAX	
ADDRESS: PO Box 56, 5579 Fisher Road		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP: East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica Whitesboro St	1909	1909-2S

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs + MTBE	TCL SVOCs	TAL Metals	COMMENTS
WB-B1	6/10/03 0905		X	X				4	X	X	X	
WB-B2	" 0920		X	X				3	X	X		
WB-B3	" 0930		X	X				4	X	X	X	
WB-B4	" 1010		X	X				3	X	X		
WB-B5	" 1030		X	X				3	X	X		
WB-B6	" 1055		X	X				3	X	X		
WB-B7	" 1125		X	X				3	X	X		
WB-B8	" 1320		X	X				3	X	X		
WB-B9	" 1255		X	X				3	X	X		
WB-B10	" 1235		X	X				4	X	X	X	
WB-B11	" 1145		X	X				4	X	X	X	
WB B12	" 1210		X	X				4	X	X	X	

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
	Sean Pepling	6/10/03 1800		/	6/00 NYSDEC ASP	
		/		/		
		/		/		

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY: Dunn & Pasternacki	PHONE: 315 437 1142	COMPANY	PHONE	LAB PROJECT #:
NAME: Sean Pepling	FAX: 315 437 1282	NAME	FAX	
ADDRESS: PO Box 56, 5879 Fisher Road		ADDRESS: SAME		TURNAROUND TIME:
CITY/ST/ZIP: East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica Whitesboro St	1909	1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: TCL VOCs + 4TBE	COMMENTS
Trip Blank	6/14/13 NA		X	X				1	✓	
	/									
	/									
	/									
	/									
	/									
	/									
	/									
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	[signature]	6/14/13 1800		/	1100 DYSDE CASP	
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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY: Dvirka + Bartilucci	PHONE: 315 437 1142	COMPANY	PHONE	LAB PROJECT #:
NAME: Sean Pepling	FAX: 315 437 1282	NAME: SAME	FAX	
ADDRESS: Po Box 56, 5579 Fisher Rd		ADDRESS		TURNAROUND TIME: Standard
CITY/ST/ZIP: East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica Whitesboro St	1909	1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs + MTBE	TCL SVOCs	COMMENTS
MW8 (2-4)	6/1/05 0940		X		X			2	X	X	
MW8 (6-8)	0949		X		X			2	X	X	
MW1 (4-6)	1126		X		X			2	X	X	
MW1 (8-10)	1133		X		X			2	X	X	
B14 (6-8)	1330		X		X			2	X	X	
B14 (8-10)	1332		X		X			1	X	X	
B15 (2-4)	1351		X		X			2	X	X	
B15 (6-8)	1359		X		X			2	X	X	
B18 (4-6)	1428		X		X			2	X	X	
B18 (8-10)	1432		X		X			2	X	X	
B17 (2-4)	1455		X		X			2	X	X	
B17 (6-8)	1511		X		X			2	X	X	

TSP#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
	[signature]	6/2/05 1800	FedEx	6/3/05 1300	6/60 NYSDEC ASP Internal QA/QC	
		/		/		
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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Dvirka + Bartilucci	PHONE 315 437-1142	COMPANY SAME	PHONE	LAB PROJECT #:
NAME Sean Pepling	FAX 315 437-1282	NAME	FAX	
ADDRESS PO Box 56, 5879 Fisher Road		ADDRESS		TURNAROUND TIME: Standard
CITY/ST/ZIP East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME: Utica - Whitesboro St
CLIENT PROJECT #: 1909
CLIENT P.O.#: 1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs + MTBE	TCL SVOCs	TAL Metals	COMMENTS
MW2 (6-8)	6/1/05 1556		X		X			2	X	X		
MW2 (8-10)	1558		X		X			2	X	X		
SS-11	1640		X		X			1		X	X	
SS-10	1655		X		X			1		X	X	
SS-9	1705		X		X			1		X	X	
BSS-5	1730		X		X			1		X	X	
SS-14	1745		X		X			1		X	X	
SS-15	1800		X		X			1		X	X	
SS-12	1815		X		X			1		X	X	
SS-13	1825		X		X			1		X	X	
MW4 (4-6)	6/2/05 0735		X		X			2	SP	X	(X)	
MW4 (6-8)	0748		X		X			2	SP	X	(X)	

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	[signature]	6/2/05 1500	FedEx	6/2/05 1500
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Corrected via phone call w/AD 6/3/05 SP

ADDITIONAL REMARKS: 6/QC NYSDEC ASP Internal QA/QC

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Dunn & Bashluzzi	PHONE 3154371142	COMPANY	PHONE	LAB PROJECT #:
NAME Sean Popling	FAX 3154371282	NAME SAME	FAX	
ADDRESS PO Box 56, 5879 Fisher Rd		ADDRESS		TURNAROUND TIME: Standard
CITY/ST/ZIP East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME: Utica Whitesboro St
CLIENT PROJECT #: 1909
CLIENT P.O.#: 1909-25

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs	TCL SVOCs	TAL Metals									COMMENTS
MW03 (6-8)	6/2/05 / 0945		X		X			2	X	X										
MW06 (6-8)	/ 1115		X		X			2	X	X										
BSS-1	/ 1220		X		X			1		X	X									
BSS-2	/ 1235		X		X			1		X	X									
BSS-3	/ 1240		X		X			1		X	X									
BSS-4	/ 1250		X		X			1		X	X									
	/																			
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	[signature]	6/2/05 / 1800	[signature] FedEx	6/2/05 / 1800
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ADDITIONAL REMARKS: 6/00 NYSDEC ASP i.e. level QA/QC

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Dunkle + Bartholomew	PHONE 315-437-1142	COMPANY	PHONE	
NAME James Magda	FAX 315-437-1252	NAME	FAX	TURNAROUND TIME:
ADDRESS 5879 Fisher Road		ADDRESS SAME		
CITY/ST/ZIP East Syracuse NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica - White Boro St.	1909	1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: TCL VOCs + MTBE	TAL Metals TCL	TAL Metals Dissolved	COMMENTS
mw-1	6/6/05 1210		X	X				4	X	X	X	
mw-2	6/6/05 1215		X	X				4	X	X	X	
mw-3	6/6/05 1230		X	X				4	X	X	X	
mw-4	6/6/05 1225		X	X				4	X	X	X	
mw-5	6/6/05 1245		X	X				4	X	X	X	
mw-6	6/6/05 1250		X	X				4	X	X	X	
mw-7	6/6/05 1235		X	X				4	X	X	X	
mw-8	6/6/05 1200		X	X				4	X	X	X	
TB	6/6/05 —		X	X				2	X			
	/											
	/											
	/											

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	[signature]	6/6/05 1435	FedEx	6/6/05 1435
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ADDITIONAL REMARKS: * Filter Sample at Laboratory

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email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY: Dvirka + Bartilucci	PHONE: 315-437-1142	COMPANY	PHONE	LAB PROJECT #:
NAME: James Magda	FAX: 315-437-1282	NAME	FAX	
ADDRESS: 5879 Fisher Road PO Box 56		ADDRESS: SAME		TURNAROUND TIME: Std.
CITY/ST/ZIP: East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica Whitesboro Street	1909	1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TAL Metals	COMMENTS
MW-1T	7/5/06 / 1325		X	X				1	X	
MW-1D	/ 1330									
MW-2T	/ 1315									
MW-2D	/ 1320									
MW-3T	/ 1335									
MW-3D	/ 1340									
MW-4T	/ 1300									
MW-4D	/ 1305									
MW-5T	/ 1415									
MW-5D	/ 1420									
MW-6T	/ 1425									
MW-6D	/ 1430									

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
		7/5/06 /	FedEx	7/5/06 /		
		/		/		
		/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Dvirka + Bartilucci	PHONE 315.437.1142	COMPANY	PHONE	LAB PROJECT #:
NAME James Maydu	FAX 315.437.1282	NAME SAME	FAX	
ADDRESS 5857 Fisher Road, PO Box 56		ADDRESS		TURNAROUND TIME: std.
CITY/ST/ZIP East Syracuse, NY 13057		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Utica Whitesboro St	1909	1909-25

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TAL Metals	COMMENTS
MW-7T	7/5/06 1405		X	X				1	X	
MW-7D	/ 1410		↓	↓				↓	↓	
MW-8T	/ 1345		↓	↓				↓	↓	
MW-9D	/ 1350		↓	↓				↓	↓	
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

REQUESTED ANALYSES

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	[signature]	7/5/06 /	FedEx	7/5/06 /
		/		/
		/		/

ADDITIONAL REMARKS:

COOLER TEMP:

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

FedEx Express **USA Airbill**

FedEx Tracking Number: 8306 0648 8318

Form I.D. No.: 0215

From *Please print and press hard.*

Date: 6/6/03 Sender's FedEx Account Number: 1245-6133-7

Sender's Name: Sean Pepling Phone: (315) 437-1142

Company: DVIRKA AND BARTILUCCI

Address: 5879 FISHER RD Dept./Floor/Suite/Room

City: EAST SYRACUSE State: NY ZIP: 13057

Your Internal Billing Reference First 24 characters will appear on invoice.

To

Recipient's Name: Sample Custodian Phone: (401) 732-3400

Company: MitKem Corporation

Address: 175 Metro Center Blvd Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

City: Warwick State: RI ZIP: 02886-1755

To schedule shipping at fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

0196578206

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day
- [ ] NEW FedEx Extra Hours — Later drop-off with next business afternoon delivery for select locations

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation.

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [X] SATURDAY Delivery — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	FedEx Use Only
1	60	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

447

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FedEx Express **USA Airbill**

FedEx Tracking Number: 8306 0648 8307

Form I.D. No.: 0215 Sender's Copy

From *Please print and press hard.*

Date: 6/10/03 Sender's FedEx Account Number: 1245-6133-7

Sender's Name: Sean Pepling Phone: (315) 437-1142

Company: DVIRKA AND BARTILUCCI

Address: 5879 FISHER RD Dept./Floor/Suite/Room

City: EAST SYRACUSE State: NY ZIP: 13057

Your Internal Billing Reference First 24 characters will appear on invoice. 1909-2x

To

Recipient's Name: Sample Custodian Phone: (401) 732-3400

Company: MitKem Corporation

Address: 175 Metro Center Blvd Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

City: Warwick State: RI ZIP: 02886-1755

To schedule shipping at fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

0196578206

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx Priority Overnight — Next business morning
- [X] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day
- [ ] NEW FedEx Extra Hours — Later drop-off with next business afternoon delivery for select locations

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	FedEx Use Only
1	67	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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FedEx Express **USA Airbill**

FedEx Tracking Number: 8306 0648 8097

Form I.D. No.: 0215 — Sender's Copy

Please print and press hard.

Date: 6/2/05

Sender's FedEx Account Number: 1245-6133-7

Sender's Name: Sean Pepling — Phone: (315) 437-1142

Company: DVIRKA AND BARTILUCCI

Address: 5879 FISHER RD — Dept./Floor/Suite/Room

City: EAST SYRACUSE — State: NY — ZIP: 13057

Your Internal Billing Reference (First 24 characters will appear on invoice.): 1909-2X OPTIONAL

To

Recipient's Name: Sample Custodian — Phone: (401) 732-3400

Company: Mitkem Corporation

Recipient's Address: 175 Metro Center Boulevard — Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address: — To request a package be held at a specific FedEx location, print FedEx address here.

City: Warwick — State: RI — ZIP: 02886

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- ☐ FedEx Priority Overnight — Next business morning
- ☒ FedEx Standard Overnight — Next business afternoon
- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations
- ☐ FedEx 2Day — Second business day. FedEx Envelope rate not available. Minimum charge: One-pound rate
- ☐ FedEx Express Saver — Third business day
- ☐ NEW FedEx Extra Hours — Later drop-off with next business afternoon delivery for select locations

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- ☐ FedEx 1Day Freight* — Next business day
- ☐ FedEx 2Day Freight — Second business day
- ☐ FedEx 3Day Freight — Third business day

* Call for Confirmation: * Declared value limit $500

5 Packaging

- ☐ FedEx Envelope*
- ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- ☒ Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- ☐ SATURDAY Delivery — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- ☐ HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight
- ☐ HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- ☒ No
- ☐ Yes — As per attached Shipper's Declaration
- ☐ Yes — Shipper's Declaration not required
- ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- ☐ Cargo Aircraft Only

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below.

- ☒ Sender — Acct. No. in Section 1 will be billed.
- ☐ Recipient
- ☐ Third Party
- ☐ Credit Card
- ☐ Cash/Check

FedEx Acct. No. / Credit Card No.: — Exp. Date:

Total Packages: 1 — Total Weight: 2 — Total Declared Value†: $ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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Try online shipping at fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

0196578206

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FedEx Express **US Airbill**

FedEx Tracking Number: 8493 9635 0478

SPH22

Form I.D. No.: 0215 — Sender's Copy

From Please print and press hard.

Date: 6/6/05

Sender's FedEx Account Number: 1245-6133-7

Sender's Name: SEAN PEPLING — Phone: (315) 437-1142

Company: DVIRKA AND BARTILUCCI

Address: 5879 FISHER RD — Dept./Floor/Suite/Room

City: EAST SYRACUSE — State: NY — ZIP: 13057-2973

Your Internal Billing Reference (First 24 characters will appear on invoice.): 1909-2X OPTIONAL

To

Recipient's Name: Sample Custodian — Phone: (401) 732-3400

Company: Mitkem Corporation

Recipient's Address: 175 Metro Center Blvd — Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address: — To request a package be held at a specific FedEx location, print FedEx address here.

City: Warwick — State: RI — ZIP: 02886-1755

4a Express Package Service — *Packages up to 150 lbs.* *To most locations

- ☐ FedEx Priority Overnight — Next business morning*
- ☑ FedEx Standard Overnight — Next business afternoon*
- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations*
- ☐ FedEx 2Day — Second business day*. FedEx Envelope rate not available. Minimum charge: One-pound rate
- ☐ FedEx Express Saver — Third business day*

4b Express Freight Service — *Packages over 150 lbs.* **To most locations

- ☐ FedEx 1Day Freight* — Next business day**
- ☐ FedEx 2Day Freight — Second business day**
- ☐ FedEx 3Day Freight — Third business day**

* Call for Confirmation: * Declared value limit $500

5 Packaging

- ☐ FedEx Envelope*
- ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- ☐ FedEx Box
- ☐ FedEx Tube
- ☑ Other

6 Special Handling — Include FedEx address in Section 3.

- ☐ SATURDAY Delivery — Available ONLY for FedEx Priority Overnight, FedEx 2Day, FedEx 1Day Freight, and FedEx 2Day Freight to select ZIP codes
- ☐ HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight
- ☐ HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- ☑ No
- ☐ Yes — As per attached Shipper's Declaration
- ☐ Yes — Shipper's Declaration not required
- ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- ☐ Cargo Aircraft Only

Dangerous goods (including Dry Ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below.

- ☑ Sender — Acct. No. in Section 1 will be billed.
- ☐ Recipient
- ☐ Third Party
- ☐ Credit Card
- ☐ Cash/Check

FedEx Acct. No. / Credit Card No.: — Exp. Date:

Total Packages: 1 — Total Weight: 4 — Total Declared Value†: $ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Sign to Authorize Delivery Without a Signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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Try online shipping at fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

Questions? Visit our Web site at fedex.com or call 1.800.GoFedEx 1.800.463.3339.

0293780926

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FedEx Express **US Airbill**

FedEx Tracking Number 8575 0658 6951

SPH32

Form ID No. 0215

Sender's Copy

From *Please print and press hard.*

Date

Sender's FedEx Account Number 1245-6133-7

Sender's Name SEAN PEPLING Phone (315) 437-1142

Company DVIRKA AND BARTILUCCI

Address 5879 FISHER RD Dept./Floor/Suite/Room

City EAST SYRACUSE State NY ZIP 13057-2973

Your Internal Billing Reference First 24 characters will appear on invoice. OPTIONAL

To

Recipient's Name Receiving Phone (401) 732-3400

Company Mitkem Corporation

Recipient's Address 175 Metro Center Blvd. Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Warwick State RI ZIP 02886-1755

0335127131

4a Express Package Service *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ____ ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. ____ Exp. Date ____

Total Packages	Total Weight	Total Declared Value†
1	40	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability. FedEx Use Only

8 *NEW* **Residential Delivery Signature Options** If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

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Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. WB-SS1

Field Sample I.D. Number SS-1 **Time** 1250

Weather Mostly Cloudy, Low 70's **Temperature**

Sample Type:

Groundwater _____ **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil X **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water _____ **Measurement Method** _____

Depth of Well _____ **Measurement Method** _____

Volume Removed _____ **Removal Method** _____

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) Ø Color moderate brown Odor none

Other:

Laboratory Analyses Requested

SVOCs | pest | PCB | TAL Metals

Cyanide | | |

Remarks:

Grid N200, E50

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. WB-SS2

Field Sample I.D. Number SS2 Time 1255

Weather Mostly Cloudy, Low 70's Temperature _____

Sample Type:

Groundwater _____ Sediment _____

Surface Water/Stream _____ Air _____

Soil X Other (describe, i.e. water, septage, etc.) _____

Well Information (fill out for groundwater samples)

Depth to Water _____ Measurement Method _____

Depth of Well _____ Measurement Method _____

Volume Removed _____ Removal Method _____

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) Ø Color moderate brown Odor none

Other: _____

Laboratory Analyses Requested

SVOCs pest PCB TAL Metals

Cyanide

Remarks:

grid N200, E150

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. WB-SS3

Field Sample I.D. Number SS-3 Time 1305

Weather Mostly Cloudy, Low 70's Temperature

Sample Type:

Groundwater Sediment

Surface Water/Stream Air

Soil X Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water Measurement Method

Depth of Well Measurement Method

Volume Removed Removal Method

Field Test Results

pH Spec Cond (mS/cm) Turbidity (NTUs)

Diss. Oxygen (mg/l) Temperature °C Salinity (%)

PID (ppm) Ø Color moderate brown Odor none

Other:

Laboratory Analyses Requested

SVOCs pest PCB TAL Metals

Cyanide

Remarks:

grid N50, E10

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. WB-554

Field Sample I.D. Number SS-4 Time 1300

Weather Mostly Cloudy, Low 70's Temperature _____

Sample Type:

Groundwater _____ Sediment _____

Surface Water/Stream _____ Air _____

Soil X Other (describe, i.e. water, septage, etc.) _____

Well Information (fill out for groundwater samples)

Depth to Water _____ Measurement Method _____

Depth of Well _____ Measurement Method _____

Volume Removed _____ Removal Method _____

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) Ø Color moderate brown Odor none

Other: _____

Laboratory Analyses Requested

SVOCs	post	PCB	TAL Metals
Cyanide			

Remarks:

grid D100, E150

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. WB-SS5

Field Sample I.D. Number SS-5 Time 1320

Weather Mostly Cloudy, Low 70's Temperature

Sample Type:

Groundwater Sediment

Surface Water/Stream Air

Soil X Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water Measurement Method

Depth of Well Measurement Method

Volume Removed Removal Method

Field Test Results

pH Spec Cond (mS/cm) Turbidity (NTUs)

Diss. Oxygen (mg/l) Temperature °C Salinity (%)

PID (ppm) Ø Color moderate brown Odor none

Other:

Laboratory Analyses Requested

SVOCs pest PCB TAL Metals

Cyanide

Remarks:

grid N150, E200

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. WB-S56

Field Sample I.D. Number S56 Time 1325

Weather Mostly Cloudy, Low 70's Temperature

Sample Type:

Groundwater Sediment

Surface Water/Stream Air

Soil X Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water Measurement Method

Depth of Well Measurement Method

Volume Removed Removal Method

Field Test Results

pH Spec Cond (mS/cm) Turbidity (NTUs)

Diss. Oxygen (mg/l) Temperature °C Salinity (%)

PID (ppm) 0 Color moderate brown Odor none

Other:

Laboratory Analyses Requested

SVOCs pest PCB TAL Metals

Cyanide

Remarks:

grid N200, E300

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ =0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci CONSULTING ENGINEERS
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Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. WB-SS7

Field Sample I.D. Number SS-7 Time 1335

Weather Mostly Cloudy, Low 70's Temperature _____

Sample Type:

Groundwater _____ Sediment _____

Surface Water/Stream _____ Air _____

Soil X Other (describe, i.e. water, septage, etc.) _____

Well Information (fill out for groundwater samples)

Depth to Water _____ Measurement Method _____

Depth of Well _____ Measurement Method _____

Volume Removed _____ Removal Method _____

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) Ø Color moderate brown Odor none

Other: _____

Laboratory Analyses Requested

SVOCs pest PCB TAL Metals

Cyanide

Remarks:

grid N50, E200

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/6/03

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. WB-SS8

Field Sample I.D. Number SS-8 Time 1330

Weather Mostly Cloudy, Low 70's Temperature _____

Sample Type:

Groundwater _____ Sediment _____

Surface Water/Stream _____ Air _____

Soil X Other (describe, i.e. water, septage, etc.) _____

Well Information (fill out for groundwater samples)

Depth to Water _____ Measurement Method _____

Depth of Well _____ Measurement Method _____

Volume Removed _____ Removal Method _____

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) Ø Color moderate brown Odor none

Other: _____

Laboratory Analyses Requested

SVOCs pest PCB TAL Metals

Cyanide

Remarks:

~~grid 88~~ 10ft north and 10ft west of southeast corner of property.

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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CONSULTING ENGINEERS
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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro Street Sample Crew: S. Pepling

Sample Location/Well No. SS-9

Field Sample I.D. Number SS-9 Time 1705

Weather Partly Cloudy Temperature 70°s F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals ____ ____

____ ____ ____ ____

Remarks:

DK brown silt and f, m SAND, some f. c gravel dry

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ =0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: _____

Sample Location/Well No. SS-10

Field Sample I.D. Number SS-10 Time 1655

Weather Partly Cloudy Temperature 70°s F

Sample Type:

Groundwater _____ Sediment _____

Surface Water/Stream _____ Air _____

Soil X Other (describe, i.e. water, septage, etc.) _____

Well Information (fill out for groundwater samples)

Depth to Water _____ Measurement Method _____

Depth of Well _____ Measurement Method _____

Volume Removed _____ Removal Method _____

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) 0 Color _____ Odor _____

Other: _____

Laboratory Analyses Requested

SVOCs TAL Metals

Remarks:

Med brown f-c SAND and SILT, trace f-c gravel (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling

Sample Location/Well No. SS-11

Field Sample I.D. Number SS-11 Time 1640

Weather Partly Cloudy Temperature 70°s F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals ____ ____

____ ____ ____ ____

Remarks:

DK brown SILT, some f-c Sand, some f-c gravel (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica-Whitesboro St Sample Crew: S. Peplias

Sample Location/Well No. SS-12 100,350

Field Sample I.D. Number SS12 Time 1815

Weather Partly cloudy Temperature 70°sF

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals

Remarks:

Med brown SILT, some fic Sand and f-c gravel, bricks, wood (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling

Sample Location/Well No. SS-13 50,300

Field Sample I.D. Number SS-13 Time 1825

Weather Partly cloudy Temperature 70°s F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method /

Depth of Well ____ Measurement Method /

Volume Removed ____ Removal Method /

Field Test Results

pH / Spec Cond (mS/cm) / Turbidity (NTUs) /

Diss. Oxygen (mg/l) / Temperature °C / Salinity (%) /

PID (ppm) 0 Color / Odor /

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals ____ ____

____ ____ ____ ____

Remarks:

DK brown SILT, some f.c Sand and f.c Gravel, bricks (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Repling

Sample Location/Well No. SS-14 200,250

Field Sample I.D. Number SS-14 Time 1745

Weather Partly Cloudy Temperature 70°s F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals

Remarks:

Red brown silt, some f.c sand, some f.c gravel, brick fragments, glass (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Repling

Sample Location/Well No. SS-15 150,300

Field Sample I.D. Number SS-15 Time 1800

Weather Partly Cloudy Temperature 70°s F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0.8 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals ____ ____

____ ____ ____ ____

Remarks:

Med brown SILT, some f-c sand, some f-c gravel, bricks, glass (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/2/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Peplinski

Sample Location/Well No. BSS-1

Field Sample I.D. Number BSS-1 Time 1220

Weather Partly Cloudy Temperature 70°s F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals

Remarks:

Lt brown SILT, trace f. sand, roots (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/2/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling

Sample Location/Well No. BSS-2

Field Sample I.D. Number BSS-2 Time 1235

Weather Partly cloudy Temperature 70°F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals

Remarks:

Lt brown silt, trace f. sand (dry) grass + roots at surface

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/2/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling

Sample Location/Well No. BSS-3

Field Sample I.D. Number BSS-3 Time 1240

Weather Partly Cloudy Temperature 70°s F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals

Remarks:

Lt brown SILT, trace f. sand (dry), roots grass at grade

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/2/05

SAMPLE INFORMATION RECORD

Site: Utica Whiteshore Street Sample Crew: S. Pepling

Sample Location/Well No. BSS-4

Field Sample I.D. Number BSS-4 Time 1250

Weather Partly Cloudy Temperature 70°F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOCs TAL Metals

Remarks:

2K brown silt, little f.c sand, little f.m gravel, bricks, glass (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/1/05

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro St Sample Crew: S. Pagliaro

Sample Location/Well No. BSS-5

Field Sample I.D. Number BSS-5 Time 1730

Weather Partly cloudy Temperature 70° F

Sample Type:

Groundwater ____ Sediment ____

Surface Water/Stream ____ Air ____

Soil X Other (describe, i.e. water, septage, etc.) ____

Well Information (fill out for groundwater samples)

Depth to Water ____ Measurement Method ____

Depth of Well ____ Measurement Method ____

Volume Removed ____ Removal Method ____

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) 0.9 Color ____ Odor ____

Other: ____

Laboratory Analyses Requested

SVOC TAL Metals

Remarks:

dark brown silt, trace fine gravel, trace fine sand (dry)

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-1

Field Sample I.D. Number WB-B1 **Time** 0905

Weather Mostly Sunny **Temperature** 60°s F

Sample Type:

Groundwater X **Sediment** ____

Surface Water/Stream ____ **Air** ____

Soil ____ **Other (describe, i.e. water, septage, etc.)** ____

Well Information (fill out for groundwater samples)

Depth to Water 8.34 **Measurement Method** WLI

Depth of Well 12.47 **Measurement Method** WLI

Volume Removed 2000 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) ____ Color Turbid brown Odor None

Other: ____

Laboratory Analyses Requested

VOCs + MTBE	SVOCs	TAL Metals	____
____	____	____	____

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-2

Field Sample I.D. Number WB-B2 **Time** 0920

Weather Mostly Sunny **Temperature** 60°s F

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 9.38 **Measurement Method** WLI

Depth of Well 15.85 **Measurement Method** WLI

Volume Removed 2000 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) _____ Color Turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE SVOCs TAL Metals 6010

_____ _____ _____ _____

Remarks:

_____

_____

_____

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-3

Field Sample I.D. Number WB-B3 **Time** 0930

Weather Mostly Sunny **Temperature** 60°s F

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 9.02 **Measurement Method** WLI

Depth of Well 13.85 **Measurement Method** WLI

Volume Removed 2000 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH _____ Spec Cond (mS/cm) _____ Turbidity (NTUs) _____

Diss. Oxygen (mg/l) _____ Temperature °C _____ Salinity (%) _____

PID (ppm) _____ Color Turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE	SVOCs	TAL Metals	

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-4

Field Sample I.D. Number WB-B4 **Time** 1010

Weather Mostly Sunny **Temperature** 60°sF

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 9.56 **Measurement Method** WLI

Depth of Well 14.10 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH / Spec Cond (mS/cm) / Turbidity (NTUs) /

Diss. Oxygen (mg/l) / Temperature °C / Salinity (%) _____

PID (ppm) / Color turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE | SVOCs | _____ | _____

_____ | _____ | _____ | _____

Remarks:

_____

_____

_____

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-5

Field Sample I.D. Number WB-B5 **Time** 1030

Weather Mostly Sunny **Temperature** 60°F

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 10.10 **Measurement Method** WLI

Depth of Well 13.87 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) ____ Color Turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE	SVOCs		

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ =0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-6

Field Sample I.D. Number WB-B6 **Time** 1055

Weather Mostly Sunny **Temperature** 60°sF

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 10.62 **Measurement Method** WLI

Depth of Well 14.37 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH / Spec Cond (mS/cm) / Turbidity (NTUs) /

Diss. Oxygen (mg/l) / Temperature °C / Salinity (%) _____

PID (ppm) / Color Turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE SVOCs _____ _____

_____ _____ _____ _____

Remarks:

_____

_____

_____

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ =0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-7

Field Sample I.D. Number WB-B7 **Time** 1125

Weather Mostly Sunny **Temperature** 60°F

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 10.07 **Measurement Method** WLI

Depth of Well 13.99 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH / Spec Cond (mS/cm) / Turbidity (NTUs) /

Diss. Oxygen (mg/l) / Temperature °C / Salinity (%) /

PID (ppm) / Color Turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE | SVOCs | | |

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-8

Field Sample I.D. Number WB-58 **Time** 1320

Weather Mostly Sunny **Temperature** 60°s F

Sample Type:

Groundwater X **Sediment** ____

Surface Water/Stream ____ **Air** ____

Soil ____ **Other (describe, i.e. water, septage, etc.)** ____

Well Information (fill out for groundwater samples)

Depth to Water 9.80 **Measurement Method** WLI

Depth of Well 14.00 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) ____ Color Turbid brown Odor None

Other: ____

Laboratory Analyses Requested

VOCs + MTBE | SVOCs | ____ | ____

____ | ____ | ____ | ____

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ =0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-9

Field Sample I.D. Number WB-B9 **Time** 1255

Weather Mostly Sunny **Temperature** 60°F

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 10.12 **Measurement Method** WLI

Depth of Well 14.90 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH / Spec Cond (mS/cm) / Turbidity (NTUs) /

Diss. Oxygen (mg/l) / Temperature °C / Salinity (%) /

PID (ppm) / Color Turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE | SVOCs | | |

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

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Date: 4/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-10

Field Sample I.D. Number WB-B10 **Time** 1235

Weather Mostly Sunny **Temperature** 60°sF

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 10.37 **Measurement Method** WLI

Depth of Well 14.76 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH / Spec Cond (mS/cm) / Turbidity (NTUs) /

Diss. Oxygen (mg/l) / Temperature °C / Salinity (%) /

PID (ppm) / Color Turbid brown Odor None

Other: _____

Laboratory Analyses Requested

VOCs + MTBE	SVOCs	TAL Metals	

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ =0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-11

Field Sample I.D. Number WB-B11 **Time** 1145

Weather Mostly Sunny **Temperature** 60°F

Sample Type:

Groundwater X **Sediment** ____

Surface Water/Stream ____ **Air** ____

Soil ____ **Other (describe, i.e. water, septage, etc.)** ____

Well Information (fill out for groundwater samples)

Depth to Water 9.28 **Measurement Method** WLI

Depth of Well 14.46 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) ____ Color Turbid brown Odor None

Other: ____

Laboratory Analyses Requested

VOCs + MTBE	SVOCs	TAL Metals	____
____	____	____	____

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/10/03

SAMPLE INFORMATION RECORD

Site: Utica – Whitesboro Street **Sample Crew:** S. Pepling

Sample Location/Well No. B-12

Field Sample I.D. Number WB-B12 **Time** 1210

Weather Mostly Sunny **Temperature** 60°F

Sample Type:

Groundwater X **Sediment** ____

Surface Water/Stream ____ **Air** ____

Soil ____ **Other (describe, i.e. water, septage, etc.)** ____

Well Information (fill out for groundwater samples)

Depth to Water 8.55 **Measurement Method** WLI

Depth of Well 13.96 **Measurement Method** WLI

Volume Removed 1500 ml **Removal Method** poly tubing w/ SS foot valve

Field Test Results

pH ____ Spec Cond (mS/cm) ____ Turbidity (NTUs) ____

Diss. Oxygen (mg/l) ____ Temperature °C ____ Salinity (%) ____

PID (ppm) ____ Color Turbid brown Odor None

Other: ____

Laboratory Analyses Requested

VOCs + MTBE	SVOCs	TAL Metals	

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St. Sample Crew: S. Pepling / S. Magda

Sample Location/Well No. MW-1

Field Sample I.D. Number MW1 Time 1210

Weather Overcast Temperature 80°F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 10.41 Measurement Method Solinst DTW

Depth of Well 13.85 Measurement Method Solinst DTW

Volume Removed 1.65 / 5.0 removed Removal Method Poly bailer

Field Test Results

pH 6.65 Spec Cond (mS/cm) 2.26 Turbidity (NTUs) 999

Diss. Oxygen (mg/l) NM Temperature °C 12.6 Salinity (%) 0.1

PID (ppm) NM Color Brown Odor none

Other:

Laboratory Analyses Requested

VOCs TAL Metals (total & dissolved)

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

13.85 - 10.41 = 3.44 x 0.16 = 0.55 x 3 = 1.65

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro St Sample Crew: J magda / S Pepling

Sample Location/Well No. MW-2

Field Sample I.D. Number MW2 Time 1215

Weather Overcast Temperature ~80°s F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water ~~9.30~~ 9.30 Measurement Method WLI

Depth of Well 13.90 Measurement Method WLI

Volume Removed 2.22/4.5 removed Removal Method disposable poly bailer

Field Test Results

pH 7.10 Spec Cond (mS/cm) 1.57 Turbidity (NTUs) >999

Diss. Oxygen (mg/l) NM Temperature °C 12.1 Salinity (%) 0.07

PID (ppm) NM Color Brown Odor none

Other:

Laboratory Analyses Requested

VOCs TAL Metals (total + dissolved)

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

13.90 - 9.30 = 4.6 X 0.16 = 0.74 x 3 = 2.22

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro St Sample Crew: S. Pepling / J. Magda

Sample Location/Well No. MW-3

Field Sample I.D. Number MW3 Time ~~1225~~ 1230

Weather Overcast Temperature 80°s F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 8.57 Measurement Method WLI

Depth of Well 13.90 Measurement Method WLI

Volume Removed 5 gal Removal Method disposable poly bailer

Field Test Results

pH 7.17 Spec Cond (mS/cm) 2.69 Turbidity (NTUs) >999

Diss. Oxygen (mg/l) NM Temperature °C 12.8 Salinity (%) 0.16

PID (ppm) NM Color Brown Odor None

Other:

Laboratory Analyses Requested

VOCs TAL Metals (total + dissolved)

Remarks:

Well Casing Volumes

13.90 − 8.57 = 5.33 × 0.16 = 3.198 GAL/FT

1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

~~D&B~~ SIRa/gg 0.85/Vol 0.85 × 3 = 2.55

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica-Whitesboro St. Sample Crew: S. Pepling / J. Magde

Sample Location/Well No. MW-4

Field Sample I.D. Number MW4 Time 1225

Weather Overcast Temperature 80°s F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 9.76 Measurement Method WLT

Depth of Well 13.85 Measurement Method WLT

Volume Removed 1.96 l Removal Method disposable polybailer

Field Test Results

pH 7.11 Spec Cond (mS/cm) 1.54 Turbidity (NTUs) >999

Diss. Oxygen (mg/l) NM Temperature °C 11.8 Salinity (%) 0.06

PID (ppm) NM Color Brown Odor none

Other:

Laboratory Analyses Requested

VOCs TAL Metals (total + dissolved)

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

13.85 - 9.76 = 4.09 x 0.16 = 0.65 x 3 = 1.96

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica - Whitesboro St Sample Crew: S. Pepling / J. Magda

Sample Location/Well No. MW-5

Field Sample I.D. Number MW-5 Time 1245

Weather Overcast Temperature 80°SF

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 6.46 Measurement Method WLI

Depth of Well 13.85 Measurement Method WLI

Volume Removed 6 gallons Removal Method disposable poly bailer

Field Test Results

pH 7.11 Spec Cond (mS/cm) 1.13 Turbidity (NTUs) >999

Diss. Oxygen (mg/l) NM Temperature °C 12.6 Salinity (%) 0.05

PID (ppm) NM Color Brown Odor slight weathered petroleum

Other: Slight sheen

Laboratory Analyses Requested

VOCs TAL Metals (total + dissolved)

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

13.85
6.46
7.39
.16
4434
79
1.18
3
3.54

D&B_SIRa/gg

11 8 24

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Paoling / J. Magda

Sample Location/Well No. MW-6

Field Sample I.D. Number MW6 Time 1250

Weather Overcast Temperature 80°s F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 6.63 Measurement Method WLI

Depth of Well 13.80 Measurement Method WLI

Volume Removed 5 gal Removal Method disposable poly bailer

Field Test Results

pH 7.47 Spec Cond (mS/cm) 1.63 Turbidity (NTUs) >999

Diss. Oxygen (mg/l) NM Temperature °C 12.6 Salinity (%) 0.07

PID (ppm) NM Color Brown Odor moderate weathered petro

Other: moderate sheen

Laboratory Analyses Requested

VOCs TAL Metals (total + dissolved)

Remarks:

13.80
6.63
7.17
.16
43 02
7
D&B SIR agg
7
114 17 2

1.15
3
3.45

Well Casing Volumes

GAL/FT

1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling / J. Magda

Sample Location/Well No. MW-7

Field Sample I.D. Number MW7 Time 1235

Weather Overcast, hot 80°SF Temperature 80°s F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 7.70 Measurement Method

Depth of Well 13.85 Measurement Method

Volume Removed Removal Method

Field Test Results

pH 7.62 Spec Cond (mS/cm) 1.91 Turbidity (NTUs) <999

Diss. Oxygen (mg/l) NM Temperature °C 12.3 Salinity (%) 0.09

PID (ppm) NM Color Brown Odor None

Other:

Laboratory Analyses Requested

VOCs Metals (total + dissolved)

Remarks:

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

13.85
7.70
6.15
.16
36 90
6 15
98 40

0.98 (2)
2.94 (3)

D&B_SIRa/gg

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Date: 6/6/05

SAMPLE INFORMATION RECORD

Site: Utica-Whitesboro St Sample Crew: J Magda / S Pepling

Sample Location/Well No. MW-8

Field Sample I.D. Number MW08 Time 1200

Weather Sun + clouds, Temp 80s, wind 5-10 mph from NE Temperature 80°F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 8.58 Measurement Method Solinst DTW

Depth of Well 13.80 Measurement Method Solinst DTW

Volume Removed 2.50/ 5.0 removed Removal Method poly bailer

Field Test Results

pH 6.18 Spec Cond (mS/cm) 1.42 Turbidity (NTUs) +1000

Diss. Oxygen (mg/l) NM Temperature °C 11.7 Salinity (%) 0.06

PID (ppm) NM Color turbid brown Odor none

Other:

Laboratory Analyses Requested

VOCs TAL Metals (total + dissolved)

Remarks:

Well Casing Volumes

GAL/FT				
	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

D&B_SIRa/gg

13.80 − 8.58 = 5.22 × 0.16 = 0.84 × 3 = 2.50

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Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling/J. Magda

Sample Location/Well No. MW-1

Field Sample I.D. Number MW-1 Time 1325-T 1330-D

Weather See logbook Temperature 78°F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 8.57 / 8.59 At Sample Measurement Method WLI

Depth of Well 13.87 Measurement Method WLI

Volume Removed 15 gal Removal Method bailer

Field Test Results

pH 6.92 Spec Cond (mS/cm) 1.29 Turbidity (NTUs) 182

Diss. Oxygen (mg/l) NM Temperature °C 13.9 Salinity (%) NM

PID (ppm) NM Color slightly turbid brown Odor none

Other:

Laboratory Analyses Requested

TAL Metals - total + dissolved

Remarks:

Turbidity = 9 NTU after filtering

Field filtered w/ 0.45 u RED cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

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Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pegling / J. Magda

Sample Location/Well No. MW-2

Field Sample I.D. Number MW-2 Time 1315-T 1320-D

Weather See logbook Temperature Upper 70's

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 7.87 / 7.87 at sample Measurement Method WLI

Depth of Well 13.90 Measurement Method WLI

Volume Removed 15 gallons Removal Method bailer

Field Test Results

pH 6.82 Spec Cond (mS/cm) 1.02 Turbidity (NTUs) 241

Diss. Oxygen (mg/l) NM Temperature °C 13.9 Salinity (%) NM

PID (ppm) NM Color slightly turbid brown Odor None

Other:

Laboratory Analyses Requested

TAL Metals - total + dissolved

Remarks:

Turbidity = 13 NTU after filtering

Field filtered with 0.45 u cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

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Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St **Sample Crew:** S. Pooling / J. Hagde

Sample Location/Well No. MW-3

Field Sample I.D. Number MW-3 **Time** 1325-T 1340-D

Weather See logbook **Temperature** Upper 70°F

Sample Type:

Groundwater X **Sediment** _____

Surface Water/Stream _____ **Air** _____

Soil _____ **Other (describe, i.e. water, septage, etc.)** _____

Well Information (fill out for groundwater samples)

Depth to Water 7.11 / 7.32 at sample **Measurement Method** WLI

Depth of Well 13.92 **Measurement Method** WLI

Volume Removed 5 gallons **Removal Method** bailer

Field Test Results

pH 6.96 Spec Cond (mS/cm) 1.98 Turbidity (NTUs) >999

Diss. Oxygen (mg/l) NM Temperature °C 13.3 Salinity (%) NM

PID (ppm) NM Color turbid brown Odor None

Other: _____

Laboratory Analyses Requested

TAL Metals - total & dissolved

Remarks:

Turbidity = 8 NTU after filtering

Field filtered w/ RED cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling/J. Magda

Sample Location/Well No. MW-4

Field Sample I.D. Number MW-4D Time T-1300 D-1305

Weather seeloghook Temperature Upper 70's F

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 8.29 / 8.31 at sample Measurement Method WLI

Depth of Well 13.85 Measurement Method WLI

Volume Removed 4.5 gallons Removal Method bailer

Field Test Results

pH 6.30 Spec Cond (mS/cm) 1.43 Turbidity (NTUs) 245

Diss. Oxygen (mg/l) NM Temperature °C 13.7 Salinity (%) NM

PID (ppm) NM Color murky turbid brown Odor ~~slight petroleum like~~ None

Other:

Laboratory Analyses Requested

TAL Metals - total + dissolved

Remarks:

~~Turb~~ Turb = 19 NTU after field filtering

Field filter w/ 0.45u QED cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

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Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Whiteshore St Sample Crew: Jim Magda / Sean Peeling

Sample Location/Well No. MW-5

Field Sample I.D. Number MW-5T / MW-5D Time 1415-D 1420-T

Weather see logbook Temperature Upper 70°sF

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 6.92 / 4.68 at sample Measurement Method Solinst DTW

Depth of Well 13.85 Measurement Method Solinst DTW

Volume Removed 10 Removal Method Poly bailer

Field Test Results

pH 6.95 Spec Cond (mS/cm) 0.833 Turbidity (NTUs) 68

Diss. Oxygen (mg/l) NM Temperature °C 15.1 Salinity (%) NM

PID (ppm) NM Color very slightly turbid brown Odor slight petroleum like

Other:

Laboratory Analyses Requested

TAL Metals Total + Dissolved

Remarks:

Turbidity = 4 NTU after filtering

Field filtered with 0.45 u QED cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Whiteshore St **Sample Crew:** Jim Magda / Sean Dearing

Sample Location/Well No. MW-6

Field Sample I.D. Number MW-6T/MW-6D **Time** 1425-T 1430-D

Weather See log book **Temperature** Upper 70°sF

Sample Type:

Groundwater X **Sediment**

Surface Water/Stream **Air**

Soil **Other (describe, i.e. water, septage, etc.)**

Well Information (fill out for groundwater samples)

Depth to Water 4.85 / 4.70 at soffit **Measurement Method** WLI

Depth of Well 13.85 **Measurement Method** WLI

Volume Removed 10 gallons **Removal Method** bailer

Field Test Results

pH 7.26 Spec Cond (mS/cm) 0.546 Turbidity (NTUs) 205

Diss. Oxygen (mg/l) NM Temperature °C 15.8 Salinity (%) NM

PID (ppm) NM Color mod turbid brown Odor slight petroleum-like

Other: slight sheen

Laboratory Analyses Requested

TAL Metals Total + Dissolved

Remarks:

Turbidity = 3 NTU after filtering
Field filtered with 0.45 µ QED cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Whitesboro Sample Crew: Jim Magda / Sean Deplin

Sample Location/Well No. MW-7R

Field Sample I.D. Number MW-7T / MW-7D Time 1405-T 1410-D

Weather See logbook Temperature Upper 70°F

Sample Type:

Groundwater ✓ Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 6.05 / 6.17 at sample Measurement Method WLI

Depth of Well 13.85 Measurement Method WLI

Volume Removed 15 gallons Removal Method bailer

Field Test Results

pH 7.35 Spec Cond (mS/cm) 0.526 Turbidity (NTUs) 139

Diss. Oxygen (mg/l) DM Temperature °C 15.8 Salinity (%) DM

PID (ppm) DM Color slightly turbid brown Odor none

Other:

Laboratory Analyses Requested

TAL Metals Total + Dissolved

Remarks:

Turbidity = 3 NTU after filtering

Field filtered w/ QED 0.45 µ cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½" = 0.24	3½ = 0.50	6" = 1.46

Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Date: 7/5/06

SAMPLE INFORMATION RECORD

Site: Utica Whitesboro St Sample Crew: S. Pepling / J. Magda

Sample Location/Well No. mw-8

Field Sample I.D. Number mw-8T / mw-8D Time 1345-T 1350-D

Weather See logbook Temperature Upper 70°sF

Sample Type:

Groundwater X Sediment

Surface Water/Stream Air

Soil Other (describe, i.e. water, septage, etc.)

Well Information (fill out for groundwater samples)

Depth to Water 6.63 / 6.70 at sample Measurement Method WLI

Depth of Well 13.8 ~~6.70~~ Measurement Method WLI

Volume Removed 15 gallons Removal Method bailer

Field Test Results

pH 7.43 Spec Cond (mS/cm) 1.01 Turbidity (NTUs) 635

Diss. Oxygen (mg/l) NM Temperature °C 14.3 Salinity (%) NM

PID (ppm) NM Color moderately turbid brown Odor none

Other:

Laboratory Analyses Requested

TAL Metals - total + dissolved

Remarks:

Turbidity = 6 NTU after filtering

Field filtered w/ 0.45 u QED cartridge filter

Well Casing Volumes

GAL/FT	1¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1½ = 0.10	2½ " = 0.24	3½ = 0.50	6" = 1.46

D&B_SIRa/gg

Rev. 04/06/00

APPENDIX E

ANALYTICAL RESULTS

Appendix E
Analytical Results
List of Tables

TABLE 1a.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**SS-1**	**SS-2**	**SS-3**	**SS-4**	**SS-5**	**SS-6**	**SS-7**	**SS-8**		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	25	25	17	15	23	21	19	22	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Benzaldehyde	U	U	U	U	U	U	U	U	550	----
Phenol	U	U	U	U	U	U	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	550	----
2-Chlorophenol	U	U	U	U	U	U	U	U	550	800
2-Methylphenol	U	U	U	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	550	----
Acetophenone	U	U	U	U	U	U	U	U	550	----
4-Methylphenol	U	U	U	U	U	U	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	550	----
Hexachloroethane	U	U	U	U	U	U	U	U	550	----
Nitrobenzene	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	550	----
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	550	----
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	550	400
Naphthalene	70 J	U	1,300	U	U	62 J	U	150 J	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	U	550	220 OR MDL
Hexachlorobutadiene	U	U	U	U	U	U	U	U	550	----
Caprolactum	U	U	U	U	U	U	U	U	550	----
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	U	U	710 J	U	U	56 J	U	140 J	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	550	----
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	1400	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	550	100
1,1'-Biphenyl	U	U	90 J	U	U	U	U	U	1400	----
2-Chloronaphthalene	U	U	U	U	U	U	U	U	1400	----
2-Nitroaniline	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	550	2,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	550	1,000
Acenaphthylene	79 J	U	1,500	60 J	99 J	70 J	99 J	160 J	550	41,000
3-Nitroaniline	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	75 J	U	3,100	52 J	66 J	72 J	U	320 J	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	70 J	U	2,500	43 J	U	66 J	U	360 J	550	6,200

TABLE 1a. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	25	25	17	15	23	21	19	22	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	550	----
Diethylphthalate	U	U	U	U	U	U	U	U	550	7,100
Fluorene	85 J	U	3,700	55 J	74 J	85 J	45 J	490	550	50,000
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	550	----
4-Nitroaniline	U	U	U	U	U	U	U	U	1400	----
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	1400	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	550	----
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	550	----
Hexachlorobenzene	U	U	U	U	U	U	U	U	550	410
Atrazine	U	U	U	U	U	U	U	U	550	----
Pentachlorophenol	U	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	1,500	82 J	**100,000 D**	830	1,100	1,200	610	7,200 D	550	50,000
Anthracene	150 J	U	23,000 DJ	180 J	250 J	260 J	150 J	1,200	550	50,000
Carbazole	220 J	U	14,000 DJ	120 J	140 J	170 J	83 J	990	550	----
Di-n-butylphthalate	U	U	U	U	U	U	U	44 J	550	8,100
Fluoranthene	2,800	270 J	**200,000 D**	1,500	2,600	2,100	2,000	11,000 D	550	50,000
Pyrene	1,800	240 J	**170,000 D**	1,300	2,200	1,700	1,600	9,500 D	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	550	----
Benzo (a) anthracene	**800**	160 J	**79,000 D**	**700**	**1,200**	**950**	**850**	**5,200 D**	550	224 OR MDL
Chrysene	**980**	160 J	**75,000 D**	**760**	**1,200**	**960**	**900**	**5,600 D**	550	400
bis(2-Ethylhexyl)phthalate	130 J	110 J	320 J	200 J	1,900	240 J	200 J	290 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	**2,100**	260 J	**110,000 D**	**1,200**	**2,000**	**1,600**	**1,600**	**9,700 D**	550	1,100
Benzo(k)fluoranthene	670	81 J	**33,000 DJ**	420	640	540	510	**3,200 D**	550	1,100
Benzo(a)pyrene	**950**	**150 J**	**76,000 D**	**810**	**1,300**	**1,000**	**1,100**	**6,700 D**	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	670	92 J	**38,000 DJ**	490	710	590	600	85 J	550	3,200
Dibenzo(a,h)anthracene	**190 J**	U	**1,400**	**150 J**	**220 J**	**180 J**	**180 J**	**73 J**	550	14 OR MDL
Benzo(g,h,i)perylene	750	100 J	43,000 D	590	780	630	640	81 J	550	50,000
Total PAHs	13,669	1,595	958,000	9,097	14,439	11,999	10,884	60,659		----
Total Carcinogen PAHs	6,360	903	**412,400**	4,530	7,270	5,820	5,740	**30,558**		10,000
Total SVOCs	14,089	1,705	**975,620**	9,460	16,479	12,531	11,167	62,483		500,000
Total SVOC TICs	10,105	8,984	23,360	4,794	6,908	6,825	9,246	6,390		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Result taken from reanalysis at dilution

NOTES:
To determine the detection limit for each sample, use the following equation: (CRDL)*(DF)*(100/%S), where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.
---: not established
Indicates value exceeds NYSDEC recommended Soil Clean-up objective
Indicates value exceeds background soil sample concentrations

TABLE 1b.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2003
PESTICIDE/PCBs

Sample Identification	**SS-1**	**SS-2**	**SS-3**	**SS-4**	**SS-5**	**SS-6**	**SS-7**	**SS-8**	Contract Required Detection Limit (ug/kg)	NYSDEC Recommended Soil Clean-Up Objective (ug/kg)
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		
Date of Collection	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Percent Moisture	25	25	17	15	23	21	19	22		
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
alpha-BHC	U	U	U	U	U	U	U	U	0.05	110
beta-BHC	U	U	U	U	U	U	U	U	0.05	200
delta-BHC	U	U	U	U	U	U	U	U	0.05	300
gamma-BHC (Lindane)	U	U	U	U	U	U	U	U	0.05	60
Heptachlor	U	U	2.0 P	U	U	U	U	U	0.05	100
Aldrin	U	U	U	U	U	U	U	U	0.05	41
Heptachlor Epoxide	U	U	U	U	U	U	U	U	0.05	20
Endosulfan I	U	U	U	U	U	U	U	U	0.05	900
Dieldrin	U	U	U	U	U	U	U	U	0.10	44
4,4'-DDE	U	U	U	U	U	5.1 P	U	U	0.10	2100
Endrin	U	U	U	U	U	U	U	U	0.10	100
Endosulfan II	U	U	U	U	U	U	U	U	0.10	900
4,4'-DDD	U	U	7.8 P	U	U	U	U	U	0.10	2900
Endosulfan Sulfate	U	U	8.2 P	U	U	U	U	U	0.10	1000
4,4'-DDT	U	U	15.0 P	9.1 P	8.8 P	13.0 P	6.8	26.0 P	0.10	2100
Methoxychlor	U	U	U	U	U	U	U	U	0.50	***
Endrin Ketone	U	U	82.0 DP	U	U	U	U	11.0 P	0.10	----
Endrin Aldehyde	U	U	U	U	U	U	U	U	0.10	----
alpha-Chlordane	U	U	U	U	U	U	U	2.2 P	0.05	540
gamma-Chlordane	U	U	U	U	U	U	U	3.5 P	0.05	540
Toxaphene	U	U	U	U	U	U	U	U	5.0	----
Aroclor-1016	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1221	U	U	U	U	U	U	U	U	2.0	1000/10000*
Aroclor-1232	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1242	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1248	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1254	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1260	U	U	350 P	100 P	87 P	94 P	U	320 P	1.0	1000/10000*
Total Pesticides	0	0	115	9	9	18	7	43		10000
Total PCBs	0	0	350	100	87	94	0	320		1000/10000*

QUALIFIERS:

U: Compound analyzed for but not detected

J: Compound found at a concentration below the CRDL, value estimated

P: Greater than 25% difference for detected concentrations between the two GC columns, lower value reported

D: Result is taken from reanalysis at a secondary dilution

NOTES:

----: not established

***: Total pesticides not to exceed 10,000 ug/kg

*: Value refers to the sum of these compounds; 1,000 ug/kg for surface soils and 10,000 ug/kg for subsurface soils

Indicates value exceeds NYSDEC recommended soil clean-up objective

TABLE 1c.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2003
INORGANIC PARAMETERS

Sample Identification	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		NYSDEC
Date of Collection	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	Instrument	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	75	75	83	85	77	79	81	78	Limit	Objective
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(ug/l)	(mg/kg)
Aluminum	**8,570**	**7,910**	3,570	**7,840**	**8,530**	6,610	6,090	6,360	13	SB (6,620)
Antimony	U	U	U	U	U	U	U	U	8	SB (1.5)
Arsenic	5.1	7.7	4.5	5.2	4.2	8.3	3.6	7.7	3	7.5 or SB (18)
Barium	69.5	39.6 B	235	78.8	84.7	104	108	247	1	300 or SB (82.8)
Beryllium	**0.38 B**	0.35 B	0.17 B	**0.38 B**	**0.42 B**	0.32 B	0.28 B	0.28 B	1	0.16 or SB (0.36)
Cadmium	U	U	**1.4**	U	U	0.16 B	U	U	1	1 or SB (1.3)
Calcium	28,800	28,200	**152,000**	25,900	25,400	23,000	37,500	47,300	8	SB (73,100)
Chromium	**14.3**	11.0	**13.9**	11.3	**12.4**	**18.0**	9.3	**12.7**	1	10 or SB (11.7)
Cobalt	7.3 B	7.9 B	3.3 B	7.3 B	8.0 B	6.4 B	5.5 B	6.8 B	2	30 or SB (6.4)
Copper	31.8	23.9	**198**	26.7	26.0	**137**	17.8	23.7	1	25 or SB (129)
Iron	18,600	19,100	10,300	17,200	18,800	**25,600**	14,000	19,300	20	2,000 or SB (22,200)
Lead	34.1	11.2 B	**501**	144	151	**254**	150	**857**	2	SB (173)
Magnesium	**7,110**	**10,700**	3,510	**7,700**	**7,470**	**4,770**	**6,640**	**4,710**	8	SB (4,460)
Manganese	531	655	230	485	501	444	442	**757**	4	SB (712)
Mercury	U	U	**0.19**	0.085 B	**0.14**	**0.63**	0.063 B	**0.59**	0.2	0.1
Nickel	**18.6**	16.1	**39.9**	15.9	17.7	**24.4**	12.6	**18.0**	2	13 or SB (17.8)
Potassium	**1,610**	**1,500**	684 B	**1,640**	**1,980**	**1,080 B**	**1,380**	**1,220**	20	SB (788)
Selenium	U	U	0.88 B	0.93 B	U	0.96 B	U	U	4	2 or SB (0.32)
Silver	U	U	U	U	U	U	U	U	1	SB (0.036)
Sodium	**183 B**	**147 B**	**159 B**	**159 B**	**216 B**	**227 B**	**147 B**	**187 B**	9	SB (78.4)
Thallium	U	U	U	U	U	U	U	U	5	SB (0.69)
Vanadium	19.4	18.0	18.2	18.6	20.3	19.6	18.0	21.9	1	150 or SB (15.6)
Zinc	63.4	42.7	**315**	74.8	77.7	**243**	93.9	**212**	1	20 or SB (145)
Cyanide	U	U	0.39 B	U	U	5.5	U	U	10	----

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
SB: Site background
----: not established
Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

TABLE 2a.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**SS-9**	**SS-10**	**SS-11**	**SS-12**	**SS-13**	**SS-14**	**SS-15**	Contract Required Detection Limit	NYSDEC Recommended Soil Clean-Up Objective
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Percent Moisture	10	8	11	22	21	12	17		
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Phenol	U	**120 J**	**360 J**	U	U	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	550	----
2-Chlorophenol	U	U	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	40 J	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	550	----
4-Methylphenol	U	U	110 J	U	U	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	550	----
Hexachloroethane	U	U	U	U	U	U	U	550	----
Nitrobenzene	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	67 J	U	U	U	U	550	----
2,4-Dichlorophenol	U	U	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	550	3,400
Naphthalene	160 J	130 J	820	U	50 J	81 J	99 J	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	550	----
Hexachlorobutadiene	U	U	U	U	U	U	U	550	----
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	110 J	81 J	470	U	U	84 J	93 J	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	550	----
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	1400	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	U	U	1400	----
2-Nitroaniline	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	550	2,000
Acenaphthylene	130 J	270 J	920	120 J	180 J	69 J	98 J	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	320 J	340 J	1,900	85 J	83 J	100 J	130 J	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	240 J	220 J	1,200	78 J	87 J	120 J	140 J	550	6,200

TABLE 2a. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	10	8	11	22	21	12	17	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	U	U	550	----
Diethylphthalate	U	U	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	550	----
Fluorene	290 J	400	2,300	110 J	110 J	140 J	190 J	550	50,000
4-Nitroaniline	U	U	U	U	U	U	U	1400	----
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	1400	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	550	----
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	550	----
Hexachlorobenzene	U	U	U	U	U	U	U	550	410
Pentachlorophenol	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	4,100	6,500 D	25,000 D	1,900	2,600	1,500	1,800	550	50,000
Anthracene	830	1,800	5,900	460	540	410	460	550	50,000
Carbazole	400	800	2,900	250 J	410 J	250 J	250 J	550	----
Di-n-butylphthalate	U	40 J	80 J	44 J	U	57 J	52 J	550	8,100
Fluoranthene	5,100	16,000 D	36,000 D	4,600	5,800	2,900	2,800	550	50,000
Pyrene	4,300	14,000 D	35,000 D	5,000	5,400	2,200	2,400	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	550	----
Benzo (a) anthracene	**2,500**	**7,200 D**	**16,000 D**	**2,900**	**3,200**	**1,300**	**1,600**	550	224 OR MDL
Chrysene	**2,200**	**5,600 D**	**13,000 D**	**2,800**	**3,000**	**1,300**	**1,300**	550	400
bis(2-Ethylhexyl)phthalate	45 J	270 J	3,300	130 J	120 J	62 J	100 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	**2,800**	**7,700 D**	**20,000 D**	**5,500**	**5,900**	**1,600**	**2,200**	550	1,100
Benzo(k)fluoranthene	**1,400**	**4,700**	**7,300 D**	**1,800**	**2,400**	950	780	550	1,100
Benzo(a)pyrene	**2,000**	**5,100 D**	**13,000 D**	**3,000**	**3,400**	**1,100**	**1,300**	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	550	1,500	**4,400**	770	1,200	320 J	440	550	3,200
Dibenzo(a,h)anthracene	**180 J**	**500**	**1,300**	**240 J**	**330 J**	**100 J**	**140 J**	550	14 OR MDL
Benzo(g,h,i)perylene	470	1,400	4,200	760	1,200	320 J	420	550	50,000
Total PAHs	27,330	73,140	183,605	30,153	35,393	14,390	16,157		----
Total Carcinogen PAHs	**11,630**	**32,300**	**75,000**	**17,010**	**19,430**	6,670	7,760		10,000
Total SVOCs	28,125	74,671	189,963	30,664	36,010	14,963	16,792		500,000
Total SVOC TICs	5,940	8,080	436,600	12,530	8,170	3,290	6,410		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Result taken from reanalysis at dilution

NOTES:
To determine the detection limit for each sample, use the following equation: (CRDL)*(DF)*(100/%S), where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.
---: not established
Indicates value exceeds NYSDEC recommended Soil Clean-up objective

TABLE 2a. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**BSS-1**	**BSS-2**	**BSS-3**	**BSS-4**	**BSS-5**	Contract Required Detection Limit	NYSDEC Recommended Soil Clean-Up Objective
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		
Date of Collection	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05		
Dilution Factor	1.0	1.0	1.0	1.0	1.0		
Percent Moisture	13	10	12	4	12		
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Phenol	U	U	U	U	**40 J**	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	550	----
2-Chlorophenol	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	550	----
4-Methylphenol	U	U	U	U	43 J	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	550	----
Hexachloroethane	U	U	U	U	U	550	----
Nitrobenzene	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	550	----
2,4-Dichlorophenol	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	550	3,400
Naphthalene	U	U	46 J	190 J	300 J	550	13,000
4-Chloroaniline	U	U	U	U	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	550	----
Hexachlorobutadiene	U	U	U	U	U	550	----
4-Chloro-3-methylphenol	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	U	U	U	150 J	280 J	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	550	----
2,4,6-Trichlorophenol	U	U	U	U	U	1400	----
2,4,5-Trichlorophenol	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	1400	----
2-Nitroaniline	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	550	2,000
Acenaphthylene	U	44 J	140 J	150 J	720	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	U	U	67 J	130 J	180 J	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	U	U	53 J	160 J	220 J	550	6,200

TABLE 2a. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**BSS-1**	**BSS-2**	**BSS-3**	**BSS-4**	**BSS-5**		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	6/2/2005	6/2/2005	6/2/2005	6/2/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	13	10	12	4	12	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	550	----
Diethylphthalate	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	550	----
Fluorene	U	U	110 J	200 J	190 J	550	50,000
4-Nitroaniline	U	U	U	U	U	1400	----
4,6-Dinitro-2-methylphenol	U	U	U	U	U	1400	----
N-Nitrosodiphenylamine	U	U	U	U	U	550	----
4-Bromophenyl-phenylether	U	U	U	U	U	550	----
Hexachlorobenzene	U	U	U	U	U	550	410
Pentachlorophenol	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	190 J	460	1,200	3,000	1,900	550	50,000
Anthracene	38 J	100 J	230 J	320 J	920	550	50,000
Carbazole	U	51 J	180 J	300 J	390	550	----
Di-n-butylphthalate	U	U	45 J	38 J	46 J	550	8,100
Fluoranthene	420	920	2,100	3,600	5,900 D	550	50,000
Pyrene	370 J	820	1,600	3,200	8,100 D	550	50,000
Butylbenzylphthalate	U	U	250 J	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	550	----
Benzo (a) anthracene	**250 J**	**520**	**940**	**1,400**	**4,200**	550	224 OR MDL
Chrysene	280 J	**460**	**980**	**1,500**	**5,100**	550	400
bis(2-Ethylhexyl)phthalate	57 J	67 J	140 J	77 J	120 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	320 J	640	**1,200**	**2,200**	**6,800 D**	550	1,100
Benzo(k)fluoranthene	180 J	260 J	750	830	**2,800**	550	1,100
Benzo(a)pyrene	**250 J**	**460**	**860**	**1,200**	**3,400**	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	160 J	190 J	270 J	350	910	550	3,200
Dibenzo(a,h)anthracene	U	**53 J**	**71 J**	**110 J**	**320 J**	550	14 OR MDL
Benzo(g,h,i)perylene	180 J	190 J	270 J	320 J	720	550	50,000
Total PAHs	2,638	5,117	10,834	18,700	42,460		----
Total Carcinogen PAHs	1,440	2,583	5,071	7,590	**23,530**		10,000
Total SVOCs	2,695	5,235	11,502	19,425	43,599		500,000
Total SVOC TICs	3,440	2,490	7,720	4,040	4,140		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Result taken from reanalysis at dilution

NOTES:
To determine the detection limit for each sample, use the following equation: (CRDL)*(DF)*(100/%S), where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.
---: not established
Indicates value exceeds NYSDEC recommended Soil Clean-up objective

TABLE 2b.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2005
INORGANIC PARAMETERS

Sample Identification	**SS-9**	**SS-10**	**SS-11**	**SS-12**	**SS-13**	**SS-14**	**SS-15**		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Instrument	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	90	92	89	78	79	88	83	Limit	Objective
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(mg/kg)	(mg/kg)
Aluminum	4,960	3,830	3,140	1,650	3,930	3,460	4,650	13	SB (6,620)
Antimony	0.61 B	0.073 B	0.21 B	0.34 B	0.18 B	0.26 B	U	8	SB (1.5)
Arsenic	9.3	4.6	3.4	2.0	3.3	7.1	6.2	3	7.5 or SB (18)
Barium	186	90.9	121	288	215	75.5	147	1	300 or SB (82.8)
Beryllium	0.31	0.20 B	0.15 B	0.080 B	0.20 B	0.22 B	0.25 B	1	0.16 or SB (0.36)
Cadmium	0.91	0.72	0.76	0.26 B	0.54	0.96	0.77	1	1 or SB (1.3)
Calcium	19,300	22,100	65,500	18,100	62,900	46,600	41,000	8	SB (73,100)
Chromium	8.4	7.8	8.0	4.5	7.4	6.7	**14.0**	1	10 or SB (11.7)
Cobalt	4.2	3.5	2.9	1.5 B	3.3	3.3	5.0	2	30 or SB (6.4)
Copper	**397**	61.0	44.9	9.1	15.3	39.5	39.7	1	25 or SB (129)
Iron	12,400	9,120	7,270	3,990	8,840	8,380	9,850	20	2,000 or SB (22,200)
Lead	**674**	**176**	84.2	**980**	**1,290**	161	**413**	2	SB (173)
Magnesium	2,300	3,330	3,240	1,240	4,360	2,730	2,550	8	SB (4,460)
Manganese	538	308	233	116	265	172	305	4	SB (712)
Mercury	**1.1**	**0.38**	**0.11**	**8.9**	**0.48**	**0.21**	**0.35**	0.2	0.1
Nickel	**22.9**	**23.8**	**19.4**	4.4	10.0	9.9	**20.0**	2	13 or SB (17.8)
Potassium	554	457	437	294	692	583	628	20	SB (788)
Selenium	U	U	0.24 B	0.21 B	0.49 B	0.56 B	0.41 B	4	2 or SB (0.32)
Silver	U	U	U	U	U	U	U	1	SB (0.036)
Sodium	61.6	**140**	**90.1**	53.3	**105**	**108**	**110**	9	SB (78.4)
Thallium	U	0.19 B	**0.91**	0.58 B	**1.3**	**1.0**	**0.84 B**	5	SB (0.69)
Vanadium	12.9	9.8	9.4	5.8	13.6	12.3	13.0	1	150 or SB (15.6)
Zinc	**280**	121	**184**	**162**	**177**	112	**177**	1	20 or SB (145)

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
SB: Site background (from samples BSS-1 through BSS-5)
Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

TABLE 2b. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SURFACE SOIL SAMPLE RESULTS - JUNE 2005
INORGANIC PARAMETERS

Sample Identification	**BSS-1**	**BSS-2**	**BSS-3**	**BSS-4**	**BSS-5**		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		NYSDEC
Date of Collection	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	Instrument	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	87	90	88	96	88	Limit	Objective
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(mg/kg)	(mg/kg)
Aluminum	4,190	6,620	4,820	1,760	2,970	13	SB (6,620)
Antimony	0.097 B	U	0.19 B	0.13 B	1.5	8	SB (1.5)
Arsenic	2.1	5.4	11.3	2.4	18.0	3	7.5 or SB (18)
Barium	16.5	55.6	82.8	27.5	64.8	1	300 or SB (82.8)
Beryllium	0.11 B	0.36	0.24	0.097 B	0.33	1	0.16 or SB (0.36)
Cadmium	0.19 B	0.50	0.46	0.34	1.3	1	1 or SB (1.3)
Calcium	2,870	15,400	14,900	73,100	14,600	8	SB (73,100)
Chromium	4.1	11.7	6.5	4.0	10.9	1	10 or SB (11.7)
Cobalt	2.0 B	6.4	4.1	1.5 B	5.5	2	30 or SB (6.4)
Copper	10.1	52.8	25.8	22.3	129	1	25 or SB (129)
Iron	7,780	14,900	10,100	4740	22,200	20	2,000 or SB (22,200)
Lead	52.1	89.1	82.9	70.1	173	2	SB (173)
Magnesium	961	4,460	2,090	2420	2,050	8	SB (4,460)
Manganese	222	589	712	107	234	4	SB (712)
Mercury	0.068	0.13	0.16	0.16	0.39	0.2	0.1
Nickel	5.0	17.8	11.0	6.2	16.3	2	13 or SB (17.8)
Potassium	236	788	512	420	338	20	SB (788)
Selenium	U	U	U	0.32 B	U	4	2 or SB (0.32)
Silver	0.036	U	U	U	U	1	SB (0.036)
Sodium	33.1 B	50.0 B	53.3	78.4	74.7	9	SB (78.4)
Thallium	U	U	U	0.69 B	0.65 B	5	SB (0.69)
Vanadium	9.1	15.6	10.9	4.9	13.9	1	150 or SB (15.6)
Zinc	40.5	87.8	74.1	53.7	145	1	20 or SB (145)

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
SB: Site background (from samples BSS-1 through BSS-5)

Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

TABLE 3a.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003
VOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	U	10	200
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	1 J	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	400
1,1,2-Trichl.-1,2,2-trifluor.	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Acetone	16	40	16	13	13	U	12	11	10 J	11 J	18	U	10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	5 J	U	10	2,700
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Methylene Chloride	U*	U*	81 BJ*	U*	U*	U*	U*	U*	U*	U*	84 BJ*	U*	10	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	200
cis-1,2-Dichloroethene	U	U	U	U	1 J	U	U	U	U	U	U	U	10	----
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	800
Cyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	U	10	600
Benzene	U	U	U	U	U	U	U	U	U	U	6 J	U	10	60
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	100
Trichloroethene	9 J	2 J	32	U	95	U	2 J	U	U	U	U	U	10	700
Methylcyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	10	----
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	U	U	10	1,000
Toluene	U	U	2 J	U	U	19	U	U	U	U	17	13	10	1,500
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	10	----
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	1,400
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	1,700
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5,500
Total Xylenes	U	U	U	U	U	U	U	U	U	U	3 J	U	10	1,200
Styrene	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Bromoform	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	----
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	600
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3,400
Total VOCs	25	42	131	13	109	19	14	11	10	11	134	13		10,000
Total VOC TICs	0	0	0	0	0	20	0	0	0	0	0	8		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at aconcentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

U*: Qualified as non-detect based on validation criteria

J*: Result qualified as estimated based on validation criteria

NOTES:

Indicates value exceeds the NYSDEC recommended soil clean up objective.

TABLE 3b.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Benzaldehyde	U	U	U	U	U	U	U	U	U	U	U	230 J	550	----
Phenol	U	U	U	U	U	U	U	U	U	U	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U	U	550	----
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	550	800
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Acetophenone	U	U	U	U	U	U	U	U	U	U	U	690	550	----
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	U	U	U	550	----
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	U	U	U	550	----
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	550	400
Naphthalene	U	U	50 J	72 J	U	U	U	U	U	U	350 J	U	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	U	U	U	U	U	550	220 OR MDL
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Caprolactum	U	U	U	U	U	U	U	U	U	U	U	U	550	----
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	U	U	U	U	U	U	U	U	U	U	200 J	U	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	U	U	U	550	----
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	550	100
1,1'-Biphenyl	U	U	U	U	U	U	U	U	U	U	U	U	1400	----
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	U	U	U	1400	----
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	2,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	U	550	1,000
Acenaphthylene	U	120 J	64 J	57 J	U	55 J	U	U	U	U	U	94 J	550	41,000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	U	110 J	150 J	99 J	U	57 J	U	U	U	U	110 J	U	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	U	97 J	61 J	98 J	U	U	U	U	U	U	100 J	U	550	6,200

TABLE 3b. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	6/5/2003	6/5/2003	6/6/2003	6/5/2003	6/5/2003	6/6/2003	6/5/2003	6/5/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Diethylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	7,100
Fluorene	U	150 J	120 J	160 J	U	160 J	U	U	U	U	120 J	U	550	50,000
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	550	----
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	1400	----
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	U	550	----
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	550	410
Atrazine	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	69 J	1,500	2,500	1,700	U	1,000	59 J	63 J	U	U	1,600	U	550	50,000
Anthracene	U	370 J	360 J	360	U	190 J	U	U	U	U	230 J	U	550	50,000
Carbazole	U	250 J	240 J	190 J	U	130 J	U	U	U	U	290 J	U	550	----
Di-n-butylphthalate	U	47 J	U	U	U	U	U	U	U	U	U	U	550	8,100
Fluoranthene	120 J	5,800 D	3,900 D	2,700 D	U	1,400	130 J	150 J	U	U	1,800	230 J	550	50,000
Pyrene	110 J	3,400	3,300 D	2,300	U	1,100	110 J	190 J	U	U	1,700	350 J	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	U	U	U	550	----
Benzo (a) anthracene	61 J	**2,500**	**1,700**	**1,100**	U	**630**	64 J	100 J	U	U	**970**	**240 J**	550	224 OR MDL
Chrysene	59 J	**2,400**	**2,000**	**1,100**	U	**560**	66 J	120 J	U	U	**1,100**	230 J	550	400
bis(2-Ethylhexyl)phthalate	180 J	320 J	150 J	1,600	420	330 J	560	790	84 J	75 J	70 J	200 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	82 J	**3,300**	**2,700**	**1,700**	U	640	90 J	200 J	U	U	**1,700**	380	550	1,100
Benzo(k)fluoranthene	40 J	**1,300**	860	600	U	230 J	41 J	66 J	U	U	530	140 J	550	1,100
Benzo(a)pyrene	45 J	**2,000**	**1,800**	**1,200**	U	**420 J**	57 J	**120 J**	U	U	**1,000**	**150 J**	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	U	800	920	620	U	200 J	U	75 J	U	U	670	190 J	550	3,200
Dibenzo(a,h)anthracene	U	**270 J**	**310 J**	**180 J**	U	**74 J**	U	U	U	U	**230 J**	**57 J**	550	14 OR MDL
Benzo(g,h,i)perylene	U	770	1,100	660	U	240 J	U	100 J	U	U	770	230 J	550	50,000
Total PAHs	586	24,790	21,834	14,608	0	6,956	617	1,184	0	0	12,880	2,291		----
Total Carcinogen PAHs	287	**12,570**	**10,290**	6,500	0	2,754	318	681	0	0	6,200	1,387		10,000
Total SVOCs	766	25,504	22,285	16,496	420	7,416	1,177	1,974	84	75	13,540	3,411		500,000
Total SVOC TICs	1,549	2,280	7,967	16,098	8,458	8,366	4,199	2,641	1,771	7,167	2,790	26,970		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Result taken from reanalysis at dilution

NOTES:
To determine the detection limit for each sample, use the following equation: (CRDL)*(DF)*(100/%S), where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.
---: not established
Indicates value exceeds NYSDEC recommended Soil Clean-up objective

TABLE 3c.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003
PESTICIDE/PCBs

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
alpha-BHC	U	U	U	U	U	U	U	U	U	U	U	U	0.05	110
beta-BHC	U	U	U	U	U	U	U	U	U	U	U	U	0.05	200
delta-BHC	U	U	U	U	U	U	U	U	U	U	U	U	0.05	300
gamma-BHC (Lindane)	U	U	U	U	U	U	U	U	U	U	U	U	0.05	60
Heptachlor	U	U	U	U	U	U	U	U	U	U	U	U	0.05	100
Aldrin	U	U	U	U	U	U	U	U	U	U	U	U	0.05	41
Heptachlor Epoxide	U	U	U	U	U	U	U	U	U	U	U	U	0.05	20
Endosulfan I	U	U	U	U	U	U	U	U	U	U	U	U	0.05	900
Dieldrin	U	U	U	U	U	U	U	U	U	U	U	U	0.10	44
4,4'-DDE	U	U	U	3.4 P	U	9.6	5.1 P	U	U	U	U	U	0.10	2100
Endrin	U	11.0	U	U	U	U	U	U	U	U	U	9.9	0.10	100
Endosulfan II	U	U	U	U	U	U	U	U	U	U	U	U	0.10	900
4,4'-DDD	U	5.3 P	U	2.6 JP	U	U	U	U	U	U	U	4.0 P	0.10	2900
Endosulfan Sulfate	U	U	U	U	U	U	U	U	U	U	U	3.8	0.10	1000
4,4'-DDT	U	44.0	U	11.0 P	4.6 P	16.0 P	23.0	U	U	U	U	U	0.10	2100
Methoxychlor	U	U	26.0 P	U	U	U	U	U	U	U	U	U	0.50	***
Endrin Ketone	U	5.5 P	5.9	U	U	U	U	U	U	U	U	5.6 P	0.10	----
Endrin Aldehyde	U	U	U	U	U	U	U	U	U	U	U	U	0.10	----
alpha-Chlordane	U	U	U	U	U	U	U	U	U	U	U	2.1 P	0.05	540
gamma-Chlordane	U	U	U	U	U	U	U	U	U	U	U	4.0 P	0.05	540
Toxaphene	U	U	U	U	U	U	U	U	U	U	U	U	5.0	----
Aroclor-1016	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1221	U	U	U	U	U	U	U	U	U	U	U	U	2.0	1000/10000*
Aroclor-1232	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1242	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1248	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1254	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1260	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Total Pesticides	0	66	32	17	5	26	28	0	0	0	0	29		10000
Total PCBs	0	0	0	0	0	0	0	0	0	0	0	0		1000/10000*

QUALIFIERS:

U: Compound analyzed for but not detected

J: Compound found at a concentration below the CRDL, value estimated

P: Greater than 25% difference for detected concentrations between the two GC columns, lower value reported

D: Result is taken from reanalysis at a secondary dilution

NOTES:

----: not established

***: Total pesticides not to exceed 10,000 ug/kg

*: Value refers to the sum of these compounds; 1,000 ug/kg for surface soils and 10,000 ug/kg for subsurface soils

Indicates value exceeds NYSDEC recommended soil clean-up objective

TABLE 3d.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003
INORGANIC PARAMETERS

Sample Ident.	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (ft)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10		NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Instrument	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	86	82	82	97	90	86	86	85	87	87	90	87	Limit	Objective
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(ug/l)	(mg/kg)
Aluminum	4,200	**9,700**	**6,670**	5,500	**7,090**	**6,990**	**6,680**	**10,000**	**9,930**	6,200	3,900	**8,820**	13	SB (6,620)
Antimony	**3.1 B**	U	0.78 B	0.79 B	U	**1.8 B**	U	U	U	U	1.0 B	U	8	SB (1.5)
Arsenic	3.0	4.7	6.9	4.9	5.1	4.8	5.6	9.4	9.0	4.1	16.7	8.3	3	7.5 or SB (18)
Barium	**884**	96.2	93.4	35.5 B	36.7 B	45.1	38.2 B	63.6	25.9 B	15.3 B	75.6	49.7	1	300 or SB (82.8)
Beryllium	0.16 B	**0.43 B**	0.29 B	0.22 B	0.34 B	0.30 B	0.29 B	**0.44 B**	**0.45 B**	0.27 B	**0.40 B**	0.25 B	1	0.16 or SB (0.36)
Cadmium	**1.4**	U	U	U	U	U	U	U	U	U	U	U	1	1 or SB (1.3)
Calcium	38,100	18,000	42,900	2,600	24,000	5,150	23,400	2,970	767 B	741 B	51,400	1,530	8	SB (73,100)
Chromium	**55.4**	**13.3**	9.4	**27.8**	10.1	9.2	10.5	**13.2**	**14.0**	8.9	7.7	**14.7**	1	10 or SB (11.7)
Cobalt	3.9 B	9.3 B	6.4 B	3.8 B	5.1 B	5.6 B	6.9 B	8.4 B	8.6 B	5.1 B	5.8 B	5.0 B	2	30 or SB (6.4)
Copper	**180**	33.0	50.2	37.8	25.5	25.0	31.5	29.8	45.2	20.7	25.6	31.8	1	25 or SB (129)
Iron	13,800	**22,400**	17,200	17,100	15,900	16,400	18,800	**25,700**	**27,000**	15,500	10,300	**26,900**	20	2,000 or SB (22,200)
Lead	**314**	41.4	97.1	22.9	11.4 B	51.8	50.6	23.7	11.1 B	7.1 B	65.8	11.5 B	2	SB (173)
Magnesium	3,080	**6,070**	**6,060**	2,180	2,820	2,710	**9,680**	2,970	3,610	2,050	1,880	3,290	8	SB (4,460)
Manganese	251	**1,170**	**725**	332	523	442	622	**1,290**	698	401	102	94.0	4	SB (712)
Mercury	**0.16**	**0.36**	**0.42**	**12.4**	U	**0.33**	**0.18**	**0.22**	U	U	**0.30**	U	0.2	0.1
Nickel	**73.5**	**18.1**	15.8	**551**	13.5	12.0	15.3	**20.1**	**17.9**	10.8	13.4	15.4	2	13 or SB (17.8)
Potassium	**820 B**	**1,890**	**1,150**	**1,080**	**1,290**	**1,380**	**1,390**	**1,170**	**1,070 B**	**960 B**	**928 B**	**1,420**	20	SB (788)
Selenium	**2.1**	0.88 B	U	0.80 B	U	U	U	0.66 B	0.85 B	U	1.6 N	U	4	2 or SB (0.32)
Silver	U	U	U	U	U	U	U	U	U	U	U	U	1	SB (0.036)
Sodium	**255 B**	**138 B**	**124 B**	**93.4 B**	**114 B**	**91.2 B**	**155 B**	**79.8 B**	**81.0 B**	68.6 B	**199 B**	**370 B**	9	SB (78.4)
Thallium	U	U	U	U	U	U	U	U	U	U	U	U	5	SB (0.69)
Vanadium	26.8	20.3	15.7	11.4	14.5	16.2	15.7	21.7	20.9	13.9	13.4	21.3	1	150 or SB (15.6)
Zinc	**639**	79.2	90.6	122	53.9	76.5	55.4	84.2	69.1	48.3	46.1	54.5	1	20 or SB (145)
Cyanide	U	U	0.35 B	1.3	0.40 B	U	0.82	0.51 B	U	U	U	U	10	----

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
SB: Site background, exceedances reflect background values reported in NYSDEC TAGM
----: not established
Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

TABLE 4a.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-1	B14	B14	B15	B15	MW-2	MW-2	B17		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	10	----
Chloromethane	U	U	U	U	U	U	U	U	U	10	----
Vinyl Chloride	U	U	U	U	12	U	U	U	U	10	200
Bromomethane	U	U	U	U	U	U	U	U	U	10	----
Chloroethane	U	U	U	U	U	U	U	U	U	10	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	10	400
Acetone	U	U	4 J	U	U	U	U	22	U	10	200
Iodomethane	U	U	U	U	U	U	U	U	U	10	----
Carbon Disulfide	U	U	U	U	U	U	U	U	U	10	2,700
Methylene Chloride	U*	U*	U*	U*	U*	U*	2 J	U*	U*	10	100
trans-1,2-Dichloroethene	U	U	U	U	30	2 J	U	U	U	10	----
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	10	200
Vinyl acetate	U	U	U	U	U	U	U	U	U	10	----
2-Butanone	U	U	U	U	U	U	U	U	U	10	300
cis-1,2-Dichloroethene	U	U	U	U	160 D	39	32	5 J	U	10	----
2,2-Dichloropropane	U	U	U	U	U	U	U	U	U	10	----
Bromochloromethane	U	U	U	U	U	U	U	U	U	10	----
Chloroform	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	10	800
1,1-Dichloropropene	U	U	U	U	U	U	U	U	U	10	----
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	10	600
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	10	100
Benzene	U	U	U	U	U	U	U	U	U	10	60
Trichloroethene	16	2 J	56	6 J	180 D	40	89	10	U	10	700
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	10	----
Dibromomethane	U	U	U	U	U	U	U	U	U	10	----
Bromodichloromethane	U	U	U	U	U	U	U	U	U	10	----
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	10	----
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	10	1,000
Toluene	U	U	U	U	U	U	U	U	U	10	1,500
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	10	----
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	10	----
1,3-Dichloropropane	U	U	U	U	U	U	U	U	U	10	300
Tetrachloroethene	U	U	U	U	U	U	U	U	U	10	1,400
2-Hexanone	U	U	U	U	U	U	U	U	U	10	----
Dibromochloromethane	U	U	U	U	U	U	U	U	U	10	----
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	10	----
Chlorobenzene	U	U	U	U	U	U	U	U	U	10	1,700
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	10	----

TABLE 4a. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
VOLATILE ORGANIC COMPOUNDS

Sample Identification	**MW-1**	**MW-1**	**B14**	**B14**	**B15**	**B15**	**MW-2**	**MW-2**	**B17**		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Ethylbenzene	U	U	U	U	U	U	U	U	U	10	5,500
m,p-Xylenes	U	U	U	U	U	U	U	U	U	10	1,200
o-Xylene	U	U	U	U	U	U	U	U	U	10	1,200
Total Xylenes	U	U	U	U	U	U	U	U	U	10	1,200
Styrene	U	U	U	U	U	U	U	U	U	10	----
Bromoform	U	U	U	U	U	U	U	U	U	10	----
Isopropylbenzene	U	U	U	U	U	U	U	U	U	10	----
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	10	600
Bromobenzene	U	U	U	U	U	U	U	U	U	10	----
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	U	10	400
n-Propylbenzene	U	U	U	U	U	U	U	U	U	10	----
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	----
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	U	U	10	----
4-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	----
tert-Butylbenzene	U	U	U	U	U	U	U	U	U	10	----
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	U	U	10	----
sec-Butylbenzene	U	U	U	U	U	U	U	U	U	10	----
4-Isopropyltoluene	U	U	U	U	U	U	U	U	U	10	----
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	10	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	10	8,500
n-Butylbenzene	U	U	U	U	U	U	U	U	U	10	----
1,2-Dichlorobenzene	U	U	U	U	U	U	1 J	U	U	10	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	10	----
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	10	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	10	----
Naphthalene	U*	U	U*	U*	U	U	U	U	U	10	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	U	U	10	----
Total VOCs	16	2	60	6	382	81	124	37	0		10,000
Total VOC TICs	0	0	0	8	0	0	0	0	0		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at aconcentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

U*: Qualified as non-detect based on validation criteria

NOTES:

Indicates value exceeds the NYSDEC recommended soil clean up objective (TAGM 4046).

TABLE 4a. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
VOLATILE ORGANIC COMPOUNDS

Sample Identification	B17	B18	B18	MW-3	MW-4	MW-4	MW-6	MW-8	MW-8		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	10	----
Chloromethane	U	U	U	U	U	U	U	U	U	10	----
Vinyl Chloride	U	**260**	U	U	U	U	U	U	U	10	200
Bromomethane	U	U	U	U	U	U	U	U	U	10	----
Chloroethane	U	U	U	U	U	U	U	U	U	10	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	10	400
Acetone	U	11	U	6	U	U	45	U	U	10	200
Iodomethane	U	U	U	U	U	U	U	U	U	10	----
Carbon Disulfide	U	U	U	U	U	U	1 J	U	U	10	2,700
Methylene Chloride	3 J	U*	U*	2 J	3 J	3 J	3 J	U*	U*	10	100
trans-1,2-Dichloroethene	U	18	2 J	U	U	U	U	U	U	10	----
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	10	----
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	10	200
Vinyl acetate	U	U	U	U	U	U	U	U	U	10	----
2-Butanone	U	U	U	U	U	U	U	U	U	10	300
cis-1,2-Dichloroethene	U	1,500 D	32	U	U	U	U	U	U	10	----
2,2-Dichloropropane	U	U	U	U	U	U	U	U	U	10	----
Bromochloromethane	U	U	U	U	U	U	U	U	U	10	----
Chloroform	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	10	800
1,1-Dichloropropene	U	U	U	U	U	U	U	U	U	10	----
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	10	600
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	10	100
Benzene	U	1 J	U	U	U	U	2 J	U	U	10	60
Trichloroethene	4 J	**5,700 D**	35	3 J	26	18	U	U	U	10	700
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	10	----
Dibromomethane	U	U	U	U	U	U	U	U	U	10	----
Bromodichloromethane	U	U	U	U	U	U	U	U	U	10	----
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	10	----
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	10	1,000
Toluene	U	U	U	U	U	U	U	U	U	10	1,500
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	10	----
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	10	----
1,3-Dichloropropane	U	U	U	U	U	U	U	U	U	10	300
Tetrachloroethene	U	U	U	U	U	U	U	U	U	10	1,400
2-Hexanone	U	U	U	U	U	U	U	U	U	10	----
Dibromochloromethane	U	U	U	U	U	U	U	U	U	10	----
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	10	----
Chlorobenzene	U	U	U	U	U	U	U	U	U	10	1,700
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	10	----

TABLE 4a. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
VOLATILE ORGANIC COMPOUNDS

Sample Identification	**B17**	**B18**	**B18**	**MW-3**	**MW-4**	**MW-4**	**MW-6**	**MW-8**	**MW-8**		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Ethylbenzene	U	U	U	U	U	U	140	U	U	10	5,500
m,p-Xylenes	U	U	U	U	U	U	56	U	U	10	1,200
o-Xylene	U	U	U	U	U	U	220 E	U	U	10	1,200
Total Xylenes	U	U	U	U	U	U	270	U	U	10	1,200
Styrene	U	U	U	U	U	U	U	U	U	10	----
Bromoform	U	U	U	U	U	U	U	U	U	10	----
Isopropylbenzene	U	U	U	U	U	U	220 E	U	U	10	----
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	10	600
Bromobenzene	U	U	U	U	U	U	U	U	U	10	----
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	U	10	400
n-Propylbenzene	U	U	U	U	U	U	220 E	U	U	10	----
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	----
1,3,5-Trimethylbenzene	U	U	U	U	U	U	1,000 DJ	U	U	10	----
4-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	----
tert-Butylbenzene	U	U	U	U	U	U	U	U	U	10	----
1,2,4-Trimethylbenzene	U	U	U	U	U	U	3,900 D	U	U	10	----
sec-Butylbenzene	U	U	U	U	U	U	64	U	U	10	----
4-Isopropyltoluene	U	U	U	U	U	U	150	U	U	10	----
1,3-Dichlorobenzene	2 J	U	U	U	U	U	U	U	U	10	1,600
1,4-Dichlorobenzene	3 J	U	U	U	U	U	U	U	U	10	8,500
n-Butylbenzene	2 J	U	U	U	U	U	220 E	U	U	10	----
1,2-Dichlorobenzene	3 J	U*	U	U	2 J	2 J	U	U	U	10	7,900
1,2-Dibromo-3-chloropropane	1 J	U	U	U	U	U	U	U	U	10	----
1,2,4-Trichlorobenzene	4 J	U	U	U	U	U	U	U	U	10	3,400
Hexachlorobutadiene	3 J	U	U	U	U	U	U	U	U	10	----
Naphthalene	U	U	U	U	U	U	**56,000 D**	U	U	10	13,000
1,2,3-Trichlorobenzene	4 J	U	U	U	U	U	U	U	U	10	----
Total VOCs	29	7,490	69	11	31	23	**62,511**	0	0		10,000
Total VOC TICs	0	1,100	0	0	0	0	14,540	0	0		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at aconcentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

U*: Qualified as non-detect based on validation criteria

E:Compound concentration exceeds calibration range, value estimated

NOTES:

Indicates value exceeds the NYSDEC recommended soil clean up objective (TAGM 4046).

TABLE 4b.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**MW-1**	**MW-1**	**B14**	**B14**	**B15**	**B15**	**MW-2**	**MW-2**	**B17**		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	5.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Phenol	U	U	U	U	U	U	U	U	**1,700**	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	550	----
2-Chlorophenol	U	U	U	U	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	U	U	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	550	----
4-Methylphenol	51 J	U	46 J	U	U	U	U	U	100 J	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	550	----
Hexachloroethane	U	U	U	U	U	U	U	U	U	550	----
Nitrobenzene	U	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	550	----
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	550	3,400
Naphthalene	510	U	500	1,800	U	U	U	U	1,200	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	U	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	550	----
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	550	----
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	210 J	U	240 J	2,500	82 J	U	U	U	770	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	550	----
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	1400	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	1400	----
2-Nitroaniline	U	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	U	550	2,000
Acenaphthylene	140 J	U	140 J	120 J	U	U	U	U	380 J	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	410	U	350 J	1,600	81 J	U	U	U	3,600	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	310 J	U	340 J	130 J	79 J	U	U	U	3,000	550	6,200

TABLE 4b. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**MW-1**	**MW-1**	**B14**	**B14**	**B15**	**B15**	**MW-2**	**MW-2**	**B17**		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	5	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	----
Diethylphthalate	U	U	U	U	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	550	----
Fluorene	390	U	460	530	100 J	U	U	U	4,500	550	50,000
4-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	----
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	1400	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	550	----
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	550	----
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	550	410
Pentachlorophenol	U	U	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	5,200	130 J	4,200	2,500	1,100	190 J	U	150 J	43,000 D	550	50,000
Anthracene	1,000	U	930	670	290 J	53 J	U	U	7,800 DJ	550	50,000
Carbazole	610	U	510	U	120 J	U	U	U	5,800	550	----
Di-n-butylphthalate	40 J	61 J	45 J	U	48 J	U	U	47 J	860	550	8,100
Fluoranthene	7,900 D	140 J	5,400	590	2,100	270 J	U	310 J	46,000 D	550	50,000
Pyrene	5,800 D	100 J	5,000	1,000	1,400	250 J	U	270 J	43,000 D	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	550	----
Benzo (a) anthracene	**3,400**	58 J	**2,300**	**450**	**1,000 J**	160 J	U	160 J	**20,000 D**	550	224 OR MDL
Chrysene	**3,000**	57 J	**2,300**	**460**	**1,100**	140 J	U	180 J	**19,000 D**	550	400
bis(2-Ethylhexyl)phthalate	120 J	500	860	56 J	160 J	290 J	59 J	150 J	860	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	**3,500**	54 J	**2,700**	180 J	**1,200**	160 J	U	150 J	**23,000 D**	550	1,100
Benzo(k)fluoranthene	**1,500**	28 J	**1,400**	120 J	650 J	56 J	U	86 J	**10,000 D**	550	1,100
Benzo(a)pyrene	**2,700**	44 J	**1,800**	**250 J**	**880 J**	**110 J**	U	**120 J**	**16,000 D**	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	900	U	410	78 J	350 J	60 J	U	61 J	**4,300**	550	3,200
Dibenzo(a,h)anthracene	**290 J**	U	**130 J**	U	**110 J**	U	U	U	**1,400**	550	14 OR MDL
Benzo(g,h,i)perylene	810	U	390	95 J	340 J	66 J	U	62 J	3,700	550	50,000
Total PAHs	37,450	611	28,410	10,443	10,701	1,515	0	1,549	246,880		----
Total Carcinogen PAHs	**15,290**	241	**11,040**	**1,538**	5,290	686	0	757	**93,700**		10,000
Total SVOCs	38,791	1,172	30,451	**13,129**	11,190	1,805	59	1,746	259,970		500,000
Total SVOC TICs	5,210	210	5,890	1,314,100	1,780	0	0	0	22,580		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Result taken from reanalysis at dilution

NOTES:
To determine the detection limit for each sample, use the following equation:
(CRDL)*(DF)*(100/%S), where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.
---: not established
Indicates value exceeds NYSDEC recommended Soil Clean-up objective

TABLE 4b. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	**B17**	**B18**	**B18**	**MW-3**	**MW-4**	**MW-4**	**MW-6**	**MW-8**	**MW-8**		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Phenol	U	U	U	U	U	U	**1,800 J**	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	550	----
2-Chlorophenol	U	U	U	U	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	U	U	U	U	**1,300 J**	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	550	----
4-Methylphenol	U	U	U	U	U	U	**3,300**	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	550	----
Hexachloroethane	U	U	U	U	U	U	U	U	U	550	----
Nitrobenzene	U	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	2,300 J	U	U	550	----
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	550	3,400
Naphthalene	U	54 J	U	U	170 J	U	**61,000 D**	52 J	U	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	U	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	550	----
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	550	----
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	U	U	U	U	71 J	U	34,000	46 J	U	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	550	----
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	1400	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	1400	----
2-Nitroaniline	U	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	U	550	2,000
Acenaphthylene	U	U	U	U	U	U	14,000	U	U	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	U	110 J	U	U	74 J	U	36,000 DJ	71 J	U	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	U	70 J	U	U	76 J	U	**36,000 DJ**	72 J	U	550	6,200

TABLE 4b. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B17	B18	B18	MW-3	MW-4	MW-4	MW-6	MW-8	MW-8		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	6/1/2005	6/1/2005	6/1/2005	6/2/2005	6/2/2005	6/2/2005	6/2/2005	6/1/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	----
Diethylphthalate	U	U	U	U	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	550	----
Fluorene	U	110 J	U	U	89 J	U	50,000 D	90 J	U	550	50,000
4-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	----
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	1400	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	550	----
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	550	----
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	550	410
Pentachlorophenol	U	U	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	U	1,100	45 J	130 J	1,100	U	**410,000 D**	840	U	550	50,000
Anthracene	U	240 J	U	U	230 J	U	**120,000 D**	220 J	U	550	50,000
Carbazole	U	140 J	U	U	140 J	U	34,000 DJ	120 J	U	550	----
Di-n-butylphthalate	U	39 J	U	U	48 J	U	U	47 J	U	550	8,100
Fluoranthene	U	1,200	57 J	210 J	1,500	U	**470,000 D**	1,000	U	550	50,000
Pyrene	U	1,000	45 J	170 J	1,200	U	**430,000 D**	1,000	U	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	550	----
Benzo (a) anthracene	U	**540**	U	110 J	**810**	U	**200,000 D**	**550**	U	550	224 OR MDL
Chrysene	U	**570**	U	80 J	**680**	U	**210,000 D**	**540**	U	550	400
bis(2-Ethylhexyl)phthalate	45 J	74 J	210 J	110 J	150 J	110 J	8,700	440	90 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	U	590	U	88 J	800	U	**150,000 D**	740	U	550	1,100
Benzo(k)fluoranthene	U	240 J	U	45 J	330 J	U	**91,000 D**	310 J	U	550	1,100
Benzo(a)pyrene	U	**430**	U	**71 J**	**550**	U	**130,000 D**	**470**	U	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	U	180 J	U	41 J	320 J	U	**59,000 D**	140 J	U	550	3,200
Dibenzo(a,h)anthracene	U	**54 J**	U	U	**89 J**	U	**15,000**	U	U	550	14 OR MDL
Benzo(g,h,i)perylene	U	180 J	U	46 J	320 J	U	**69,000 D**	140 J	U	550	50,000
Total PAHs	0	6,598	147	991	8,262	0	2,515,000	6,163	0		----
Total Carcinogen PAHs	0	2,604	0	435	3,579	0	**855,000**	2,750	0		10,000
Total SVOCs	45	6,921	357	1,101	8,747	110	**2,636,400**	6,888	90		500,000
Total SVOC TICs	170	1,220	0	1,460	2,730	0	1,314,100	2,060	230		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Result taken from reanalysis at dilution

NOTES:
To determine the detection limit for each sample, use the following equation:
(CRDL)*(DF)*(100/%S), where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.
---: not established
Indicates value exceeds NYSDEC recommended Soil Clean-up objective

TABLE 5a.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2003
VOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	2 J	U	U	U	U	U	U	U	U	U	10	2 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Acetone	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	U	10	60GV
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
trans-1,2-dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	U	U	10	10GV
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
cis-1,2-Dichloroethene	7 J	3 J	9 J	U	U	U	U	U	U	U	U	U	10	5 ST
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Chloroform	U	U	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Cyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzene	U	U	U	U	U	U	U	U	U	U	U	U	10	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
Trichloroethene	25	12	U	4 J	26	U	7 J	U	U	U	U	U	10	5 ST
Methylcyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	U	10	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	10	0.4 ST *
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Toluene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	10	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	1 ST
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	U	U	10	----
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromoform	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	32	15	11	4	26	0	7	0	0	0	0	0		----
Total VOC TICs	0	0	0	0	0	0	0	0	0	0	0	0		----

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated

NOTES:
*: Value pertains to the sum of the isomers
GV: Guidance Value
ST: Standard
----: Not established
Indicates value exceeds standard or guidance value.

TABLE 5b.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/L)	(ug/l)
Benzaldehyde	U	U	U	U	U	U	10	----
Phenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethyl)ether	U	U	U	U	U	U	10	1 ST
2-Chlorophenol	U	U	U	U	U	U	10	1 ST *
2-Methylphenol	U	U	U	U	U	U	10	----
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	10	----
Acetophenone	U	U	U	U	U	U	10	----
4-Methylphenol	U	U	U	U	U	U	10	----
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	10	----
Hexachloroethane	U	U	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	U	U	10	0.4 ST
Isophorone	U	U	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	U	U	10	----
2,4-Dimethylphenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	10	5 ST
2,4-Dichlorophenol	U	U	U	U	U	U	10	1 ST *
Naphthalene	U	U	U	U	U	2 J	10	10 GV
4-Chloroaniline	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	10	0.5 ST
Caprolactum	U	U	U	U	U	U	10	----
4-Chloro-3-methylphenol	U	U	U	U	U	U	10	----
2-Methylnaphthalene	U	U	U	U	U	1 J	10	----
Hexachlorocyclopentadiene	U	U	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	U	U	10	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	25	----
1-1'-Biphenyl	U	U	U	U	U	U	10	5 ST
2-Chloronaphthalene	U	U	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	U	U	25	5 ST
Dimethylphthalate	U	U	U	U	U	U	10	50 GV
2,6-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Acenaphthylene	U	U	U	U	U	1 J	10	----
3-Nitroaniline	U	U	U	U	U	U	25	5 ST
Acenaphthene	1 J	U	U	U	U	U	10	20 GV
2,4-Dinitrophenol	U	U	U	U	U	U	25	1 ST *
4-Nitrophenol	U	U	U	U	U	U	25	----
Dibenzofuran	1 J	U	U	U	U	U	10	----

TABLE 5b. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
2,4-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Diethylphthalate	U	U	U	U	U	U	10	50 GV
Fluorene	2 J	U	U	U	U	2 J	10	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	U	10	----
4-Nitroaniline	U	U	U	U	U	U	25	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	25	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	10	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	U	10	----
Hexachlorobenzene	U	U	U	U	U	U	10	0.04 ST
Atrazine	U	U	U	U	U	U	10	7.5 ST
Pentachlorophenol	U	U	U	U	U	U	25	1 ST *
Phenanthrene	14	U	U	U	U	6 J	10	50 GV
Anthracene	2 J	U	U	U	U	U	10	50 GV
Carbazole	4 J	U	U	U	U	1 J	10	----
Di-n-butylphthalate	U	U	U	U	U	U	10	50 ST
Fluoranthene	22	U	U	U	U	3 J	10	50 GV
Pyrene	15	U	U	U	U	2 J	10	50 GV
Butylbenzylphthalate	U	U	U	U	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10	5 ST
Benzo (a) anthracene	**6 J**	U	U	U	U	U	10	0.002 GV
Chrysene	**6 J**	U	U	U	U	U	10	0.002 GV
bis(2-Ethylhexyl)phthalate	1 J	3 J	U	U	U	U	10	5 ST
Di-octylphthalate	U	U	U	U	U	U	10	50 GV
Benzo(b)fluoranthene	**6 J**	U	U	U	U	U	10	0.002 GV
Benzo(k)fluoranthene	**3 J**	U	U	U	U	U	10	0.002 GV
Benzo(a)pyrene	**4 J**	U	U	U	U	U	10	ND ST
Indeno(1,2,3-cd)pyrene	**3 J**	U	U	U	U	U	10	0.002 GV
Dibenzo(a,h)anthracene	U	U	U	U	U	U	10	----
Benzo(g,h,i)perylene	3 J	U	U	U	U	U	10	----
Total PAHs	87	0	0	0	0	16		
Total Carcinogen PAHs	28	0	0	0	0	0		
Total SVOCs	93	3	0	0	0	18		
Total SVOC TICs	24	9	0	3	4	0		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated

NOTES:
* : Applies to Total Phenols
** : Applies to the sum of Unchlorinated Phenols
**** : Applies to the sum of Chlorinated Phenols
Bold Indicates value exceeds standard or guidance value.

TABLE 5b. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-7	B-8	B-9	B-10	B-11	B-12	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/L)	(ug/l)
Benzaldehyde	U	U	U	U	U	2 J	10	----
Phenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethyl)ether	U	U	U	U	U	U	10	1 ST
2-Chlorophenol	U	U	U	U	U	U	10	1 ST *
2-Methylphenol	U	U	U	U	U	U	10	----
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	10	----
Acetophenone	U	U	U	U	U	8 J	10	----
4-Methylphenol	U	U	U	U	U	U	10	----
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	10	----
Hexachloroethane	U	U	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	U	U	10	0.4 ST
Isophorone	U	U	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	U	U	10	----
2,4-Dimethylphenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	10	5 ST
2,4-Dichlorophenol	U	U	U	U	U	U	10	1 ST *
Naphthalene	U	U	U	U	U	U	10	10 GV
4-Chloroaniline	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	10	0.5 ST
Caprolactum	U	U	U	U	U	U	10	----
4-Chloro-3-methylphenol	U	U	U	U	U	U	10	----
2-Methylnaphthalene	U	U	U	U	U	U	10	----
Hexachlorocyclopentadiene	U	U	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	U	U	10	----
2,4,5-Trichlorophenol	U	U	U	U	U	U	25	----
1-1'-Biphenyl	U	U	U	U	U	U	10	5 ST
2-Chloronaphthalene	U	U	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	U	U	25	5 ST
Dimethylphthalate	U	U	U	U	U	U	10	50 GV
2,6-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Acenaphthylene	U	U	U	U	U	1 J	10	----
3-Nitroaniline	U	U	U	U	U	U	25	5 ST
Acenaphthene	U	U	U	U	U	U	10	20 GV
2,4-Dinitrophenol	U	U	U	U	U	U	25	1 ST *
4-Nitrophenol	1 J	U	U	U	U	U	25	----
Dibenzofuran	U	U	U	U	U	U	10	----

TABLE 5b. (CONTINUED)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2003
SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-7	B-8	B-9	B-10	B-11	B-12	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
2,4-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Diethylphthalate	1 J	U	U	U	U	U	10	50 GV
Fluorene	U	U	U	U	U	U	10	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	U	10	----
4-Nitroaniline	U	U	U	U	U	U	25	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	25	----
N-Nitrosodiphenylamine	U	U	U	U	U	U	10	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	U	10	----
Hexachlorobenzene	U	U	U	U	U	U	10	0.04 ST
Atrazine	U	U	U	U	U	U	10	7.5 ST
Pentachlorophenol	U	U	U	U	U	U	25	1 ST *
Phenanthrene	6 J	U	U	U	U	U	10	50 GV
Anthracene	U	U	U	U	U	U	10	50 GV
Carbazole	1 J	U	U	U	U	U	10	----
Di-n-butylphthalate	U	U	U	U	U	U	10	50 ST
Fluoranthene	6 J	U	U	U	U	1 J	10	50 GV
Pyrene	3 J	U	U	U	U	1 J	10	50 GV
Butylbenzylphthalate	U	U	U	U	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10	5 ST
Benzo (a) anthracene	U	U	U	U	U	**1 J**	10	0.002 GV
Chrysene	**1 J**	U	U	U	U	**1 J**	10	0.002 GV
bis(2-Ethylhexyl)phthalate	2 J	2 J	U	U	U	1 J	10	5 ST
Di-octylphthalate	U	U	U	U	U	U	10	50 GV
Benzo(b)fluoranthene	U	U	U	U	U	**2 J**	10	0.002 GV
Benzo(k)fluoranthene	U	U	U	U	U	U	10	0.002 GV
Benzo(a)pyrene	U	U	U	U	U	U	10	ND ST
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	10	0.002 GV
Dibenzo(a,h)anthracene	U	U	U	U	U	U	10	----
Benzo(g,h,i)perylene	U	U	U	U	U	U	10	----
Total PAHs	16	0	0	0	0	7		
Total Carcinogen PAHs	1	0	0	0	0	4		
Total SVOCs	21	2	0	0	0	16		
Total SVOC TICs	9	5	2	0	3	173		

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the method blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated

NOTES:
* : Applies to Total Phenols
** : Applies to the sum of Unchlorinated Phenols
**** : Applies to the sum of Chlorinated Phenols
Indicates value exceeds standard or guidance value.

TABLE 5c.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2003
INORGANIC PARAMETERS - UNFILTERED

Sample Identification	B-1	B-3	B-10	B-11	B-12	Instrument	NYSDEC Class GA Groundwater
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	286,000	22,300	228,000	116,000	490,000	9	----
Antimony	**65.1**	U	U	**3.1 B**	**6.9 B**	4	3 ST
Arsenic	**425**	**62.0**	**417**	**351**	**618**	2	25 ST
Barium	**6,430**	222	**3,100**	**2,330**	**3,600**	2	1,000 ST
Beryllium	**20.9**	2.0 B	**17.7**	**15.9**	**27.7**	0.2	3 GV
Cadmium	**33.0**	0.89 B	**19.9**	**28.1**	**47.8**	0.2	5 ST
Calcium	467,000	79,400	233,000	427,000	476,000	234	----
Chromium	**2,600**	**50.2**	**288**	**169**	**822**	0.6	50 ST
Cobalt	386	27.7 B	233	251	437	0.7	----
Copper	**3,570**	173	**1,950**	**1,750**	**4,190**	5	200 ST
Iron	**1,020,000**	**608,000**	**1,020,000**	**345,000**	**2,170,000**	2	300 ST ^
Lead	**2,250**	**88.3**	**644**	**1,380**	**1,730**	2	25 ST
Magnesium	**169,000**	22,900	**113,000**	**72,000**	**273,000**	2	35,000 GV
Manganese	**93,000**	**3,230**	**95,900**	**29,800**	**24,100**	0.9	300 ST ^
Mercury	**1.8**	U	**1.2**	**8.6**	**3.9**	0.1	0.7 ST
Nickel	**3,810**	66.4	**569**	**444**	**1,150**	0.9	100 ST
Potassium	43,700	30,100	28,200	32,900	56,700	320	----
Selenium	U	U	U	**72.7**	U	3	10 ST
Silver	U	2.2 B	U	U	U	2	50 ST
Sodium	**323,000**	**34,000**	**394,000**	**97,000**	**541,000**	132	20,000 ST
Thallium	U	U	U	U	U	2	0.5 GV
Vanadium	517	61.8	438	272	966	0.6	----
Zinc	**7,680**	359	**2,640**	1,830	**5,330**	2	2,000 GV

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 6a.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2005
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	Contract Required	NYSDEC Class GA Groundwater
Date of Collection	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	10	5 ST
Chloromethane	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	**5**	U	1 J	U	U	U	U	10	2 ST
Bromomethane	U	U	U	U	U	U	U	U	10	5 ST
Chloroethane	U	U	U	U	U	U	U	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	U	10	5 ST
Acetone	U	4 J	4 J	3 J	10	18	6	2 J	10	50GV
Iodomethane	U	U	U	U	U	U	U	U	10	----
Carbon Disulfide	U	U	U	U	U	U	U	U	10	60GV
Methylene Chloride	U	U	U	U	U	U	U	U	10	5 ST
trans-1,2-dichloroethene	U	5	U	U	U	U	U	U	10	5 ST
Methyl tert-Butyl Ether	U	U	U	U	U	U	1 J	U	10	10GV
1,1-Dichloroethane	U	U	U	U	U	U	U	U	10	5 ST
Vinyl acetate	U	U	U	U	U	U	U	U	10	----
2-Butanone	U	U	U	U	2 J	4 J	U	U	10	50GV
cis-1,2-Dichloroethene	U	**200**	U	2 J	U	U	U	U	10	5 ST
2,2-Dichloropropane	U	U	U	U	U	U	U	U	10	5 ST
Bromochloromethane	U	U	U	U	U	U	U	U	10	5 ST
Chloroform	U	U	U	U	U	U*	U	U	10	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	2 J	U	U	U	U	U	U	10	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	10	0.6 ST
Benzene	U	U	U	U	**18**	**43**	**11**	U	10	1 ST
Trichloroethene	5	**120**	4 J	5	U	U	U	U	10	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	U	U	10	1 ST
Dibromomethane	U	U	U	U	U	U	U	U	10	5 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	10	0.4 ST *
4-Methyl-2-Pentanone	U	U	U	U	U	1 J	U	U	10	----
Toluene	U	**10**	4 J	3 J	**8**	**23**	3 J	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	10	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	10	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	U	U	10	5 ST
Tetrachloroethene	U	U	U	U	U	U	U	U	10	5 ST
2-Hexanone	U	U	U	U	U	U	U	U	10	50GV
Dibromochloromethane	U	U	U	U	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	10	----
Chlorobenzene	U	U	U	U	U	U	U	U	10	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	3 J	**73**	U	U	10	5 ST
m,p-Xylenes	U	U	U	U	U	**14**	U	U	10	5 ST
o-Xylene	U	U	U	U	2 J	**53**	U	U	10	5 ST
Xylenes (total)	U	U	U	U	2 J	**66**	U	U	10	5 ST
Styrene	1 J	U	U	U	U	U	U	U	10	5 ST
Bromoform	U	U	U	U	U	U	U	U	10	50GV
Isopropylbenzene	U	U	U	U	1 J	**21**	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	10	5 ST
Bromobenzene	U	U	U	U	U	U	U	U	10	5 ST
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	10	0.04 ST
n-Propylbenzene	U	U	U	U	U	**7**	U	U	10	5 ST
2-Chlorotoluene	U	U	U	U	U	U	U	U	10	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	**29**	U	U	10	5 ST
4-Chlorotoluene	U	U	U	U	U	U	U	U	10	5 ST
tert-Butylbenzene	U	U	U	U	U	U	U	U	10	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	3 J	**120**	U	U	10	5 ST
sec-Butylbenzene	U	U	U	U	U	1 J	U	U	10	5 ST
4-Isopropyltoluene	U	U	U	U	U	3 J	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	10	3 ST
n-Butylbenzene	U	U	U	U	U	U	U	U	10	5 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	U	U	10	0.5 ST
Naphthalene	U	U	U	U	5	**1100 D**	U	U	10	10 GV
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	6	346	12	14	52	1510	21	2		----
Total VOC TICs	0	0	22	0	42	1102	0	0		----

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound found in the blank as well as the sample
J: Compound found at a concentration below the CRDL, value estimated
D: Result is taken from reanalysis at a secondary dilution
U*: Result qualigied as non-detect based on validation criteria

NOTES:
*: Value pertains to the sum of the isomers
GV: Guidance Value
ST: Standard
----: Not established
bold: Indicates value exceeds standard or guidance value.

TABLE 6b.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2005
INORGANIC PARAMETERS

Sample Identification	MW-1		MW-2		MW-3		MW-4			
Date of Collection	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	Instrument	NYSDEC Class GA Groundwater
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	1,640	51.8 B	2,280	27.9 B	8,000	38.5 B	1,560	48.8 B	9	----
Antimony	U	U	**4.7 B**	U	U	U	U	U	4	3 ST
Arsenic	5.1 B	U	7.0 B	U	22.4	U	6.4 B	U	2	25 ST
Barium	58.7 B	54.5 B	66.2 B	61.3 B	127 B	72.9 B	83.6 B	79.9 B	2	1,000 ST
Beryllium	U	U	U	U	0.50 B	U	U	U	0.2	3 GV
Cadmium	1.0 B	0.15 B	0.32 B	U	0.85 B	0.23 B	0.19 B	U	0.2	5 ST
Calcium	162,000	181,000	180,000	180,000	233,000	236,000	153,000	158,000	234	----
Chromium	2.5 B	0.58 B	3.6 B	U	**171**	**98.4**	1.2 B	U	0.6	50 ST
Cobalt	2.9 B	0.69 B	3.4 B	0.56 B	11.3 B	0.81 B	4.9 B	4.3 B	0.7	----
Copper	21.2 B	7.4 B	24.2 B	6.4 B	70.1	U	12.5 B	U	5	200 ST
Iron	**6,910**	89.4 B	**8,040**	38.6 B	**31,300**	81.7 B	**5,530**	32.9 B	2	300 ST ^
Lead	6.9 B	0.62 B	8.9 B	1.1 B	**27.5**	0.77 B	5.2 B	U	2	25 ST
Magnesium	**37,200**	**44,500**	34,300	**36,000**	**37,500**	**35,100**	**63,000**	**60,500**	2	35,000 GV
Manganese	**561**	9.6 B	**631**	29.8 B	**1,760**	204	**2,500**	**2,690**	0.9	300 ST ^
Mercury	U	U	U	U	0.068 B	0.30	U	U	0.1	0.7 ST
Nickel	5.2 B	1.4 B	7.5 B	2.2 B	**295**	99.9	6.1 B	3.0 B	0.9	100 ST
Potassium	15,100	16,400	14,300	14,400	15,500	14,400	23,100	21,800	320	----
Selenium	4.0 B	U	U	U	4.1 B	4.5 B	5.6 B	4.9 B	3	10 ST
Silver	U	U	U	U	U	U	U	U	2	50 ST
Sodium	**230,000**	**174,000**	**103,000**	**99,700**	**287,000**	**286,000**	**68,000**	**65,500**	132	20,000 ST
Thallium	**6.4 B**	**8.3 B**	**8.5 B**	**8.5 B**	**8.3 B**	**11.0 B**	**3.3 B**	**5.3 B**	2	0.5 GV
Vanadium	4.6 B	0.58 B	5.7 B	U	20.2 B	U	3.9 B	U	0.6	----
Zinc	38.0 B	12.6 B	42.2 B	9.5 B	120	17.1 B	23.1 B	4.8 B	2	2,000 GV

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 6b. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JUNE 2005
INORGANIC PARAMETERS

Sample Identification	MW-5		MW-6		MW-7		MW-8		Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05		
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	2,070	U	3,170	62.1 B	10,400	19.0 B	61,300	45.9 B	9	----
Antimony	U	U	U	2.5 B	U	U	U	U	4	3 ST
Arsenic	19.0 B	1.8 B	11.7 B	4.0 B	19.1 B	U	**159**	U	2	25 ST
Barium	315	276	255	258	142 B	79.2 B	582	85.8 B	2	1,000 ST
Beryllium	U	U	0.15 B	U	0.59 B	U	**4.3 B**	U	0.2	3 GV
Cadmium	0.35 B	U	0.32 B	0.17 B	0.70 B	0.18 B	**6.4**	0.19 B	0.2	5 ST
Calcium	130,000	116,000	252,000	285,000	251,000	244,000	274,000	205,000	234	----
Chromium	2.9 B	U	3.2 B	U	14.2 B	U	**86.6**	U	0.6	50 ST
Cobalt	3.3 B	1.8 B	6.2 B	4.0 B	12.7 B	0.96 B	65.7	0.84 B	0.7	----
Copper	12.0 B	U	25.2 B	U	68.1	U	**514**	U	5	200 ST
Iron	**24,800**	**898**	**15,000**	**391**	**34,600**	27.1 B	**222,000**	90.8 B	2	300 ST ^
Lead	7.3 B	0.82 B	11.9	1.6 B	32.0	1.4 B	**800**	1.2 B	2	25 ST
Magnesium	24,700	21,200	28,900	31,200	29,800	23,900	**45,600**	20,900	2	35,000 GV
Manganese	**1,170**	**913**	**2,680**	**2,660**	**3,610**	**1,360**	**9,090**	**747**	0.9	300 ST ^
Mercury	U	U	U	U	0.32	U	**0.92**	U	0.1	0.7 ST
Nickel	5.2 B	2.0 B	13.7 B	9.0 B	27.0 B	3.4 B	**143**	2.5 B	0.9	100 ST
Potassium	19,200	17,200	10,100	11,300	13,200	11,500	23,500	15,600	320	----
Selenium	U	U	1.5 B	U	U	3.1 B	U	**11.3 B**	3	10 ST
Silver	U	U	U	U	U	U	U	U	2	50 ST
Sodium	**30,000**	**24,700**	**31,400**	**36,300**	**110,000**	**108,000**	**48,800**	**48,000**	132	20,000 ST
Thallium	**5.8 B**	**3.5 B**	**6.3 B**	**7.1 B**	**3.7 B**	**8.4 B**	U	**7.8 B**	2	0.5 GV
Vanadium	4.8 B	U	7.5 B	U	24.4 B	0.54 B	156	0.59 B	0.6	----
Zinc	32.8 B	5.2 B	56.1	6.9 B	125	12.7 B	869	8.1 B	2	2,000 GV

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 7a.
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JULY 2006
INORGANIC PARAMETERS

Sample Identification	MW-1		MW-2		MW-3		MW-4		Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06		
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	1,430	U	2,400	U	9,690	U	1,980	U	9	----
Antimony	**5.7 B**	**9.5 B**	U	3.0 B	U	U	U	2.5 B	4	3 ST
Arsenic	6.2 B	4.7 B	6.6 B	U	20.7	2.7 B	4.2 B	U	2	25 ST
Barium	36.8 B	30.7 B	49.8 B	38.5 B	115 B	60.8 B	122 B	107 B	2	1,000 ST
Beryllium	U	U	U	U	0.55 B	U	U	U	0.2	3 GV
Cadmium	U	U	0.13 B	0.23 B	0.35 B	U	U	U	0.2	5 ST
Calcium	107,000	109,000	127,000	127,000	128,000	126,000	151,000	148,000	234	----
Chromium	3.2 B	0.93 B	4.2 B	0.87 B	**403**	**365**	4.8 B	1.9 B	0.6	50 ST
Cobalt	1.7 B	0.24 B	2.4 B	0.43 B	10.2 B	0.43 B	1.7 B	0.16 B	0.7	----
Copper	26.9 B	20.0 B	30.7	18.7 B	73.2	17 B	28.8 B	20 B	5	200 ST
Iron	**3,870**	130 B	**6,230**	U	**30,900**	23.0 B	**4,790**	U	2	300 ST ^
Lead	3.4 B	U	4.1 B	U	20.4	U	2.2 B	U	2	25 ST
Magnesium	**77,800**	**74,000**	**40,000**	**38,800**	24,100	21,200	**103,000**	**100,000**	2	35,000 GV
Manganese	230	3.1 B	**559**	116	**1,450**	90.3	**302**	37.9 B	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	3.2 B	1.4 B	5.4 B	1.7 B	**244**	68.1	4.1 B	1.7 B	0.9	100 ST
Potassium	22,000	21,700	15,200	14,400	12,000	10,200	18,900	17,800	320	----
Selenium	U	U	U	U	U	8.3 B	U	U	3	10 ST
Silver	1.8 B	U	U	U	U	U	U	U	2	50 ST
Sodium	**65,900**	**90,000**	**53,700**	**55,600**	**345,000**	**341,000**	**51,800**	**52,100**	132	20,000 ST
Thallium	**3.3 B**	U	**1.3 B**	U	**4.9 B**	U	**1.2 B**	U	2	0.5 GV
Vanadium	4.5 B	1.1 B	5.7 B	0.63 B	22.2 B	U	4.8 B	0.66 B	0.6	----
Zinc	97.3	71.0	85.9	60.7	153	51.7	61.9	49.3 B	2	2,000 GV

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 7a. (continued)
26-28 WHITESBORO STREET SITE
SITE INVESTIGATION
GROUNDWATER SAMPLE RESULTS - JULY 2006
INORGANIC PARAMETERS

Sample Identification	MW-5		MW-6		MW-7		MW-8		Instrument Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06		
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	991	U	1,150	U	419	U	3,020	U	9	----
Antimony	U	2.9 B	1.8 B	**3.5 B**	U	U	U	1.6 B	4	3 ST
Arsenic	16.2 B	14.6 B	11.3 B	11.8 B	1.7 B	2.7 B	9.4 B	3.1 B	2	25 ST
Barium	306	285	104 B	97.4 B	41.2 B	37.4 B	78 B	63.3 B	2	1,000 ST
Beryllium	U	U	U	U	U	U	0.19 B	U	0.2	3 GV
Cadmium	0.25 B	U	U	U	0.18 B	U	0.20 B	0.13 B	0.2	5 ST
Calcium	126,000	123,000	91,600	92,700	97,000	97,000	178,000	174,000	234	----
Chromium	2.1 B	0.64 B	1.9 B	0.59 B	1.1 B	0.49 B	4.6 B	1.1 B	0.6	50 ST
Cobalt	1.2 B	0.73 B	2.1 B	1.5 B	0.42 B	0.53 B	2.4 B	0.31 B	0.7	----
Copper	18.1 B	14.4 B	23.6 B	15.4 B	15.9 B	14.5 B	33.5	18 B	5	200 ST
Iron	**15,400**	**7,380**	**3,890**	**469**	**977**	20.4 B	**8,290**	U	2	300 ST ^
Lead	1.4 B	U	2.9 B	U	U	U	**28.2**	U	2	25 ST
Magnesium	19,400	18,700	11,900	11,500	5,260	5,330	20,400	19,100	2	35,000 GV
Manganese	**1,260**	**1,180**	**1,380**	**1,290**	78.1	27.6 B	**377**	229	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	3.4 B	1.9 B	4.7 B	3.2 B	1.9 B	1.8 B	6.7 B	1.7 B	0.9	100 ST
Potassium	14,300	13,900	7,550	7,340	4,720	4,660	19,500	17,500	320	----
Selenium	U	U	U	U	U	4.9 B	U	3.9 B	3	10 ST
Silver	U	U	U	U	U	U	U	U	2	50 ST
Sodium	**35,500**	**35,400**	18,200	18,900	16,300	17,400	**22,600**	**24,900**	132	20,000 ST
Thallium	**3.9 B**	**5.2 B**	**8.1 B**	**5.5 B**	U	**1.7 B**	U	**2.3 B**	2	0.5 GV
Vanadium	3.1 B	0.73 B	3.7 B	0.85 B	1.3 B	0.55 B	8.1 B	0.72 B	0.6	----
Zinc	73.5	56.6	75.3	65.9	45.6 B	49.1 B	73.1	43.1 B	2	2,000 GV

QUALIFIERS:
U: Compound analyzed for but not detected
B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:
^: The combined standard for iron and manganese is 500 ug/l
Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value