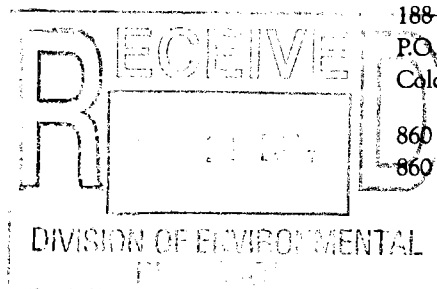




GEI Consultants, Inc.

April 1, 2004
P034400

Edward Neuhauser, Ph.D.
Project Manager
Niagara-Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, NY 13202



188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415

860 · 537 · 0751
860 · 537 · 6347 Fax

RE: Reduced Data Package
Saratoga Springs Non-Owned (Lake Ave.) MGP Site

Dear Ed:

Hard copies of reduced data and graphics for the Site Characterization study of the Saratoga Springs Non-Owned (Lake Ave.) MGP Site are provided with this letter. We have also attached a compact disk (CD) that contains the same data and graphics as pdf files. This deliverable is provided well ahead of schedule.

This submittal is in keeping with your request to postpone development of a Site Characterization/Interim Remedial Measures report, until the data and information can be discussed with New York State Department of Environmental Conservation (NYSDEC) representatives.

As you already know, the site is essentially "clean" with the exception of coal tar found within an apparent structure beneath the paved back parking lot of the Saratoga Springs Central Fire Station (adjacent to Swamp Alley). Liquids in the structure are higher than the surrounding "natural" water table, thus indicating some hydraulic containment in the vicinity of the two borings. Until we can visually observe the structure itself, it will be hard to determine whether it is the former gas holder (not encountered) or some other container used during the gas plant era.

We anticipate that NYSDEC will request additional characterization of the structure and its contents and off-site data (downgradient of the structure) to evaluate whether residuals have migrated in the direction of groundwater flow.

Additional characterization of the structure could be accomplished in several ways, as follow:

- Ground Penetrating Radar, in an attempt to determine size, shape, and foundation location
- Test trenches to confirm size, shape, and contents

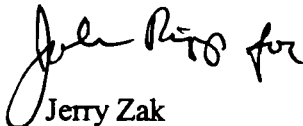
Edward Neuhauser, Ph.D.
Niagara-Mohawk Power Corporation
April 1, 2004
Page 2 of 2

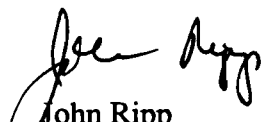
- GeoProbe borings at downgradient, off-site locations to minimize off-site disturbance and evaluate potential migration

Based on the visual and analytical results we consider that the structure is holding a tarry source material and that the NYSDEC will require its removal. In either case, the historic brick wall between the site and Swamp Alley will require careful consideration so that it is not damaged or weakened during additional investigations and/or potential remedial actions.

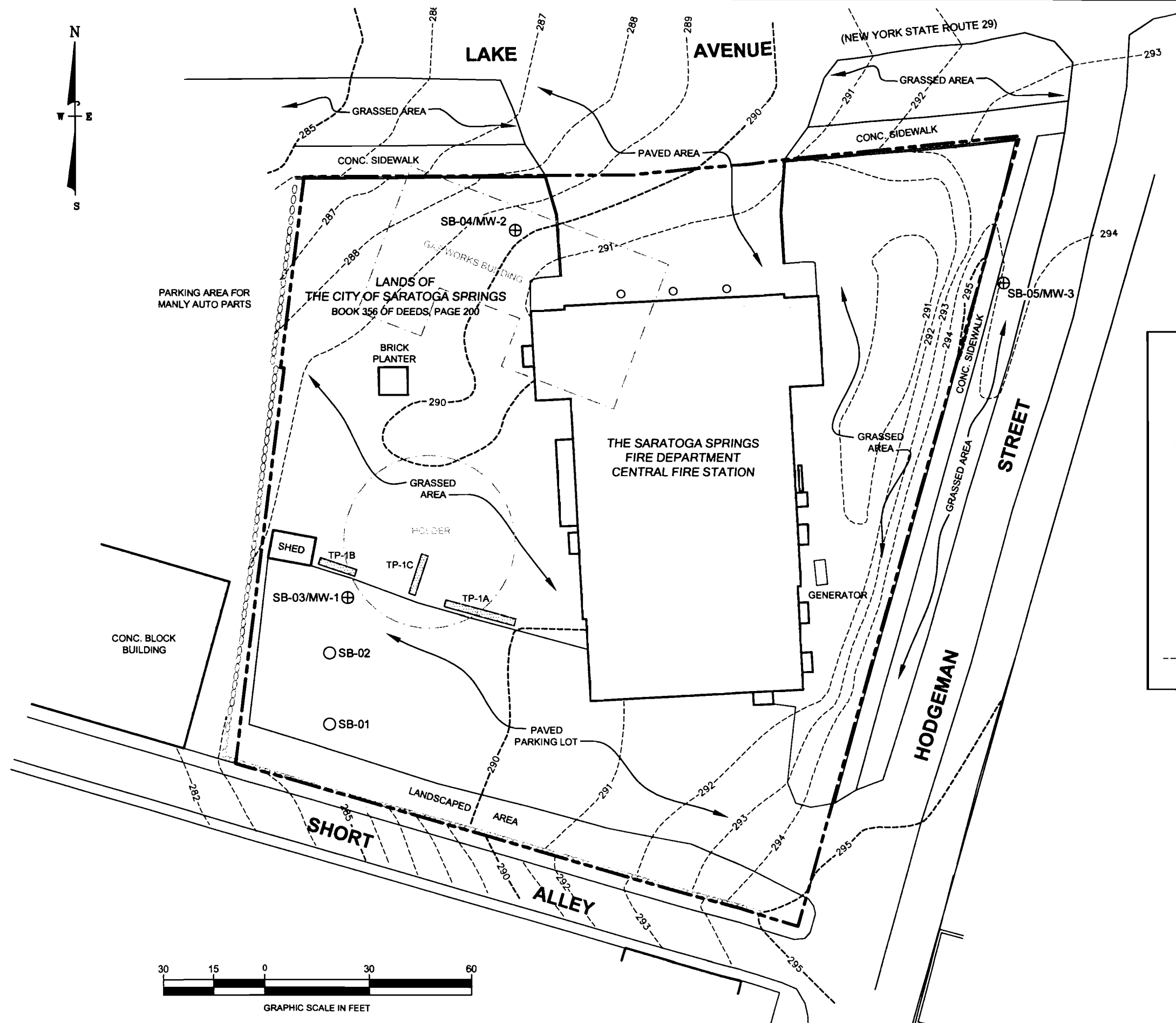
We look forward to hearing your comments and if you wish to discuss the results before meeting with the NYSDEC, please contact either of us. Please call John Ripp (860-537-0751) or me (301-824-7879) if you have any questions.

Sincerely,


Jerry Zak
Project Manager


John Ripp
Program Manager

c: Lynn Willey



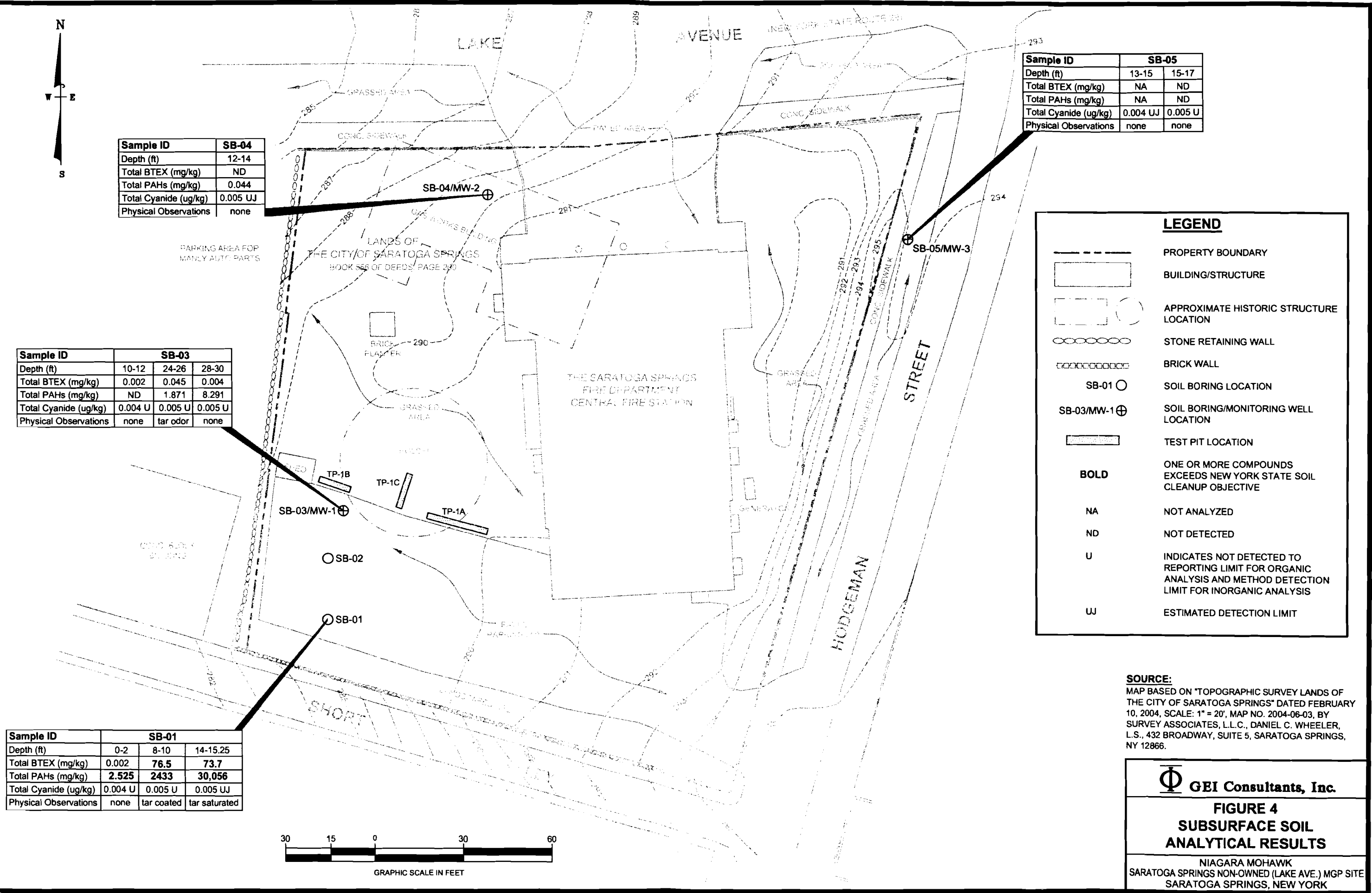
LEGEND	
	PROPERTY BOUNDARY
	BUILDING/STRUCTURE
	APPROXIMATE HISTORIC STRUCTURE LOCATION
	STONE RETAINING WALL
	BRICK WALL
	SB-01 SOIL BORING LOCATION
	SB-03/MW-1 SOIL BORING/MONITORING WELL LOCATION
	TEST PIT LOCATION
	GROUND SURFACE CONTOURS (FT)

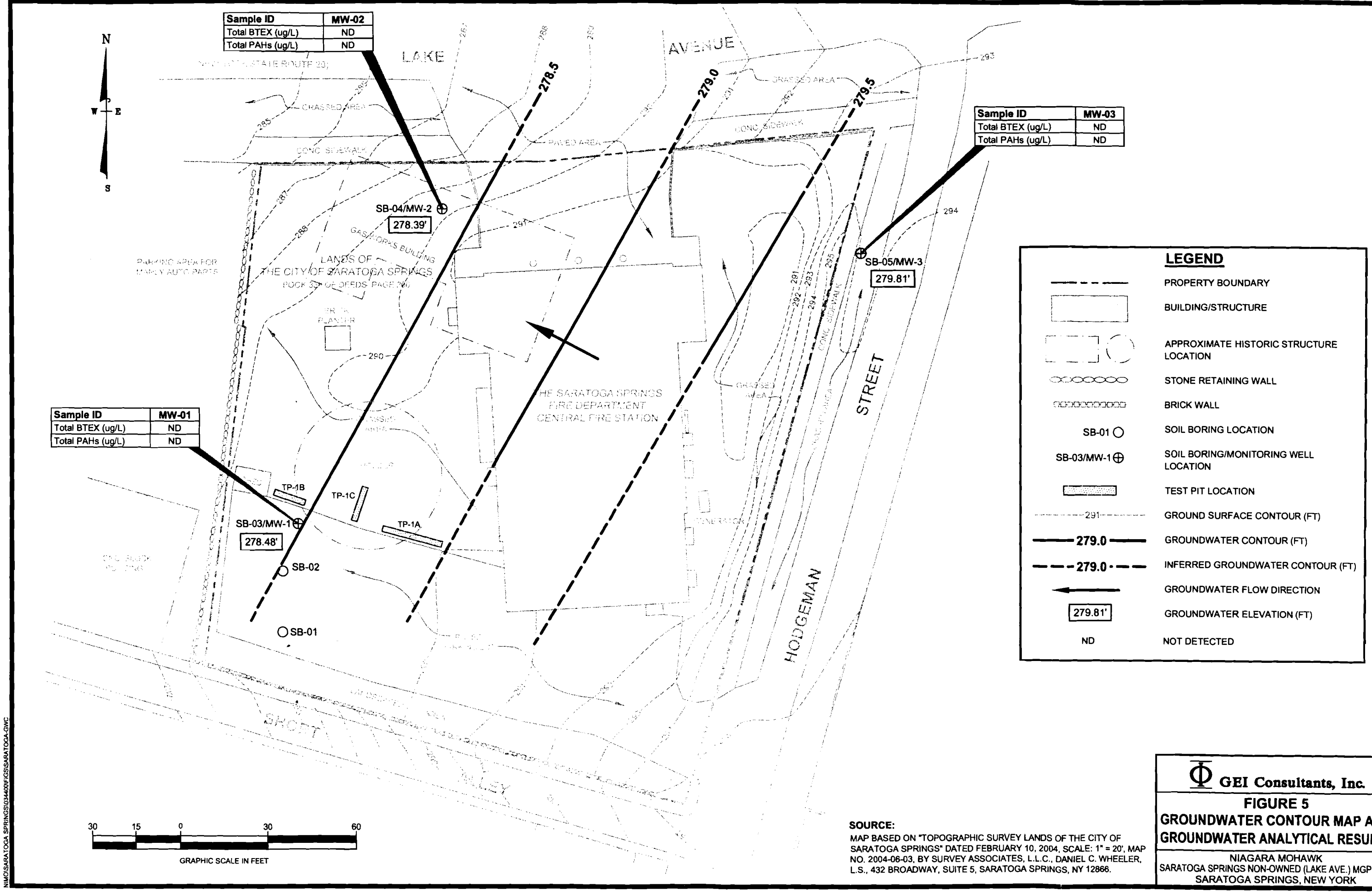
SOURCE:
 MAP BASED ON "TOPOGRAPHIC SURVEY LANDS OF THE CITY OF SARATOGA SPRINGS" DATED FEBRUARY 10, 2004, SCALE: 1" = 20', MAP NO. 2004-06-03, BY SURVEY ASSOCIATES, L.L.C., DANIEL C. WHEELER, L.S., 432 BROADWAY, SUITE 5, SARATOGA SPRINGS, NY 12866.

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**FIGURE 2
 CURRENT SITE CONDITIONS AND
 SAMPLE LOCATION MAP**

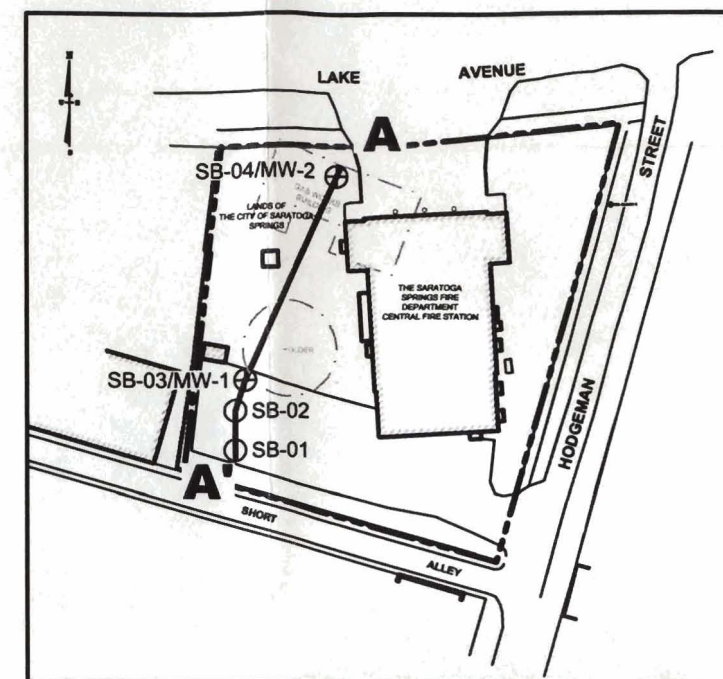
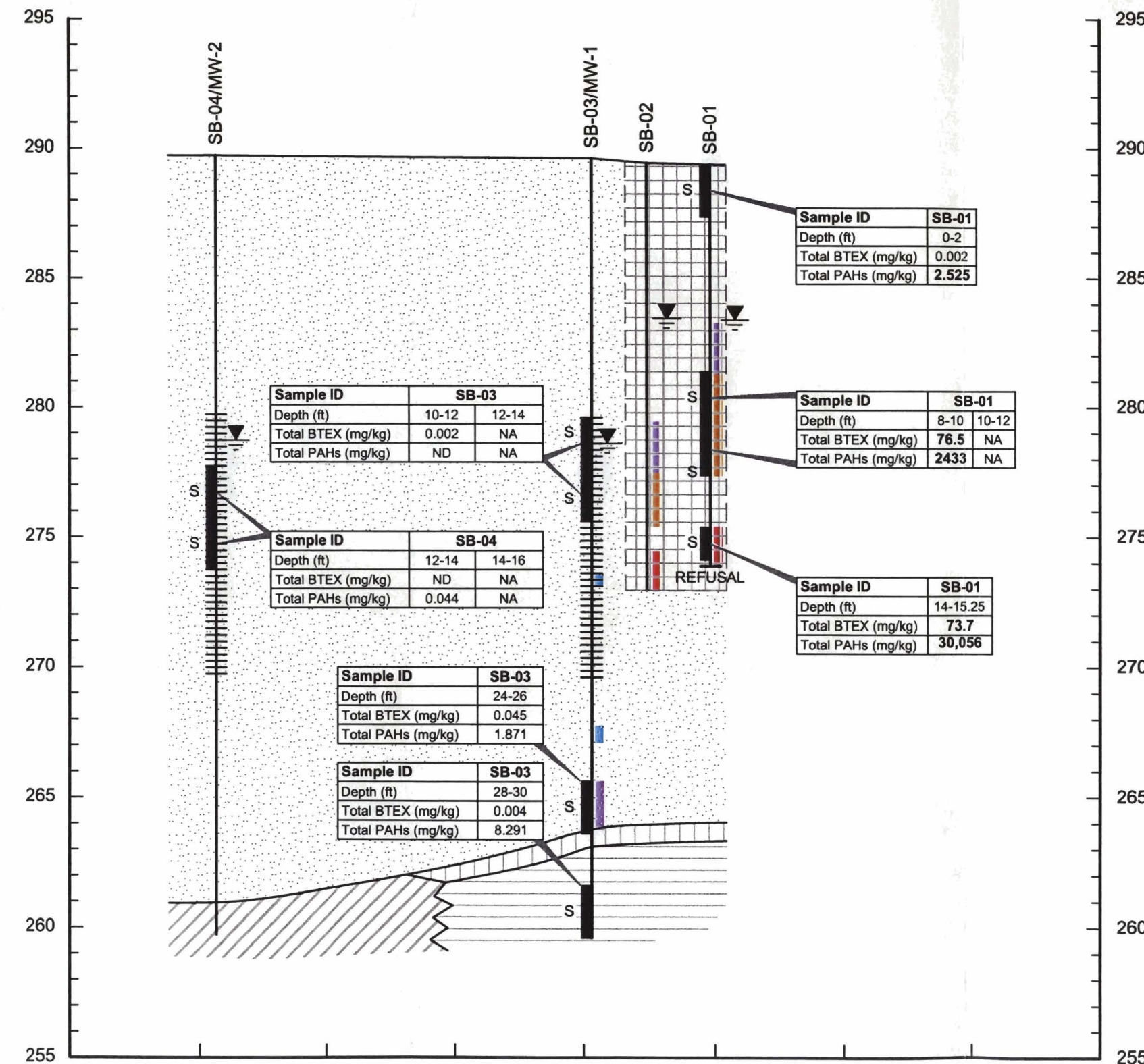
NIAGARA MOHAWK
 SARATOGA SPRINGS NON-OWNED (LAKE AVE.) MGP SITE
 SARATOGA SPRINGS, NEW YORK



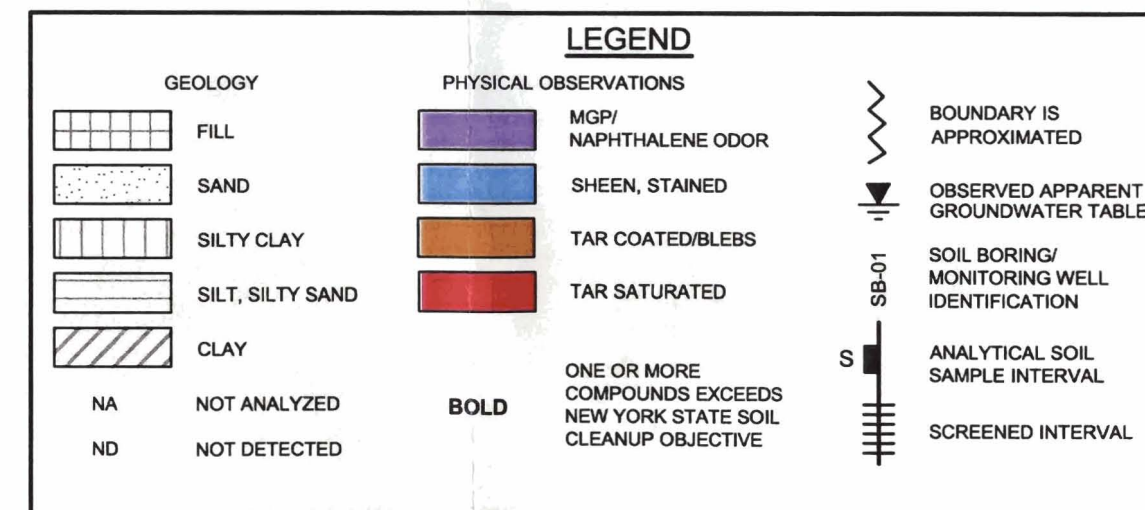
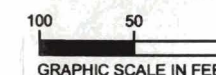


SW
A
ELEV.
(FT NGVD 29)

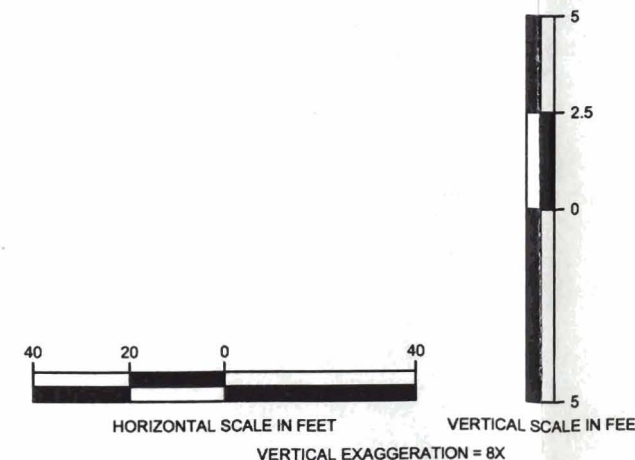
NE
A'
ELEV.
(FT NGVD 29)



CROSS SECTION LOCATION MAP



NOTE: ALL SAMPLE LOCATIONS SHOWN AS "S", HOWEVER, NOT ALL ANALYZED FOR BTEX OR PAH.



GEI Consultants, Inc.

**FIGURE 3
GEOLOGIC CROSS SECTION
A-A'**

NIAGARA MOHAWK
SARATOGA SPRINGS NON-OWNED (LAKE AVE.) MGP SITE
SARATOGA SPRINGS, NEW YORK

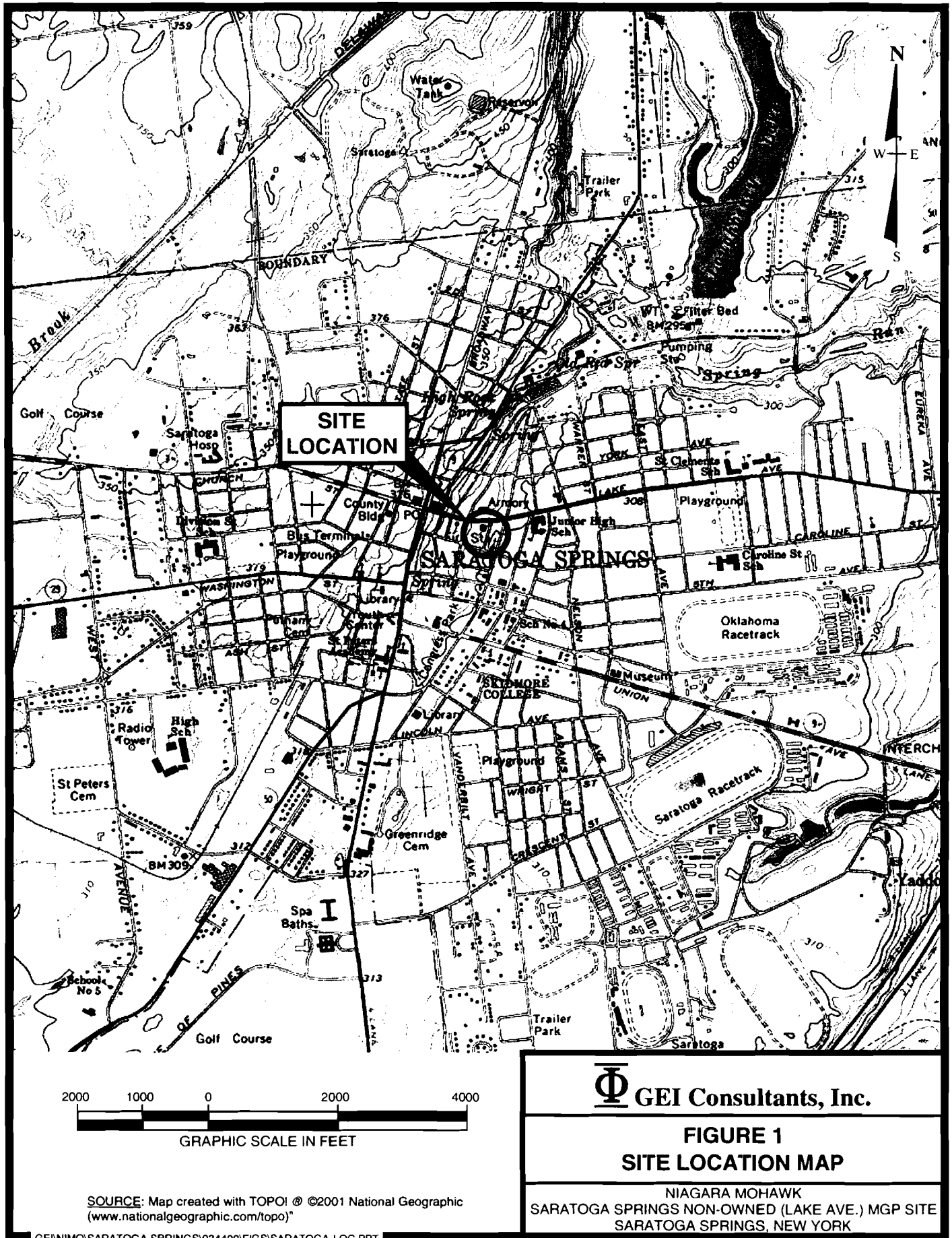


Table 1
Soil Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

Chemical Name	NYS Soil Cleanup Objective (TAGM4048)	SB-01 0-2 SB-01 (0-2) 11/18/2003	SB-01 10-12 SB-01(10-12) 11/18/2003	SB-01 8-10 SB-01 (8-10) 11/18/2003	SB-01 14-15.25 SB-01 (14-15.25) 11/18/2003	SB-03 10-12 SB-03 (10-12) 11/19/2003	SB-03 12-14 SB-03(12-14) 11/19/2003
BTEX							
Benzene	0.06	0.01 U	NA			0.011 U	NA
Ethylbenzene	5.5	0.01 U	NA	2.4	1.7	0.011 U	NA
Toluene	1.5	0.002 J	NA			0.002 J	NA
Xylene, Total	1.2	0.01 U	NA			0.011 U	NA
Total BTEX	NE	0.002	NA	76.5	73.7	0.002	NA
Other VOC's							
Methylene Chloride	0.1	NA	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)							
Acenaphthene	50	0.38 U	NA	33 J		3.6 U	NA
Acenaphthylene	41	0.038 J	NA			3.6 U	NA
Anthracene	50	0.031 J	NA			3.6 U	NA
Benzo[a,h,i]perylene	50	0.12 J	NA	19 J		3.6 U	NA
Fluoranthene	50	0.35 J	NA			3.6 U	NA
Fluorene	50	0.015 J	NA			3.6 U	NA
Methylnaphthalene,2-	36.4	0.091 J	NA			3.6 U	NA
Naphthalene	13	0.32 J	NA			3.6 U	NA
Phenanthrene	50	0.12 J	NA			3.6 U	NA
Pyrene	50	0.27 J	NA			3.6 U	NA
Total Noncarcinogenic PAHs	NE	1.355	NA	2032	26316	ND	NA
Carcinogenic PAHs (mg/kg)							
Benzo[a]anthracene	0.224	0.21 J	NA			3.6 U	NA
Benzo[a]pyrene	0.061	0.21 J	NA			3.6 U	NA
Benzo[b]fluoranthene	1.1	0.18 J	NA			3.6 U	NA
Benzo[k]fluoranthene	1.1	0.15 J	NA			3.6 U	NA
Chrysene	0.4	0.2 J	NA			3.6 U	NA
Dibenzo[a,h]anthracene	0.014	0.07 J	NA			3.6 U	NA
Indeno[1,2,3-cd]pyrene	3.2	0.12 J	NA			3.6 U	NA
Total Carcinogenic PAHs	NE	1.17	NA	401	3740	ND	NA
Total PAHs (mg/kg)							
Total PAHs	NE	2.525	NA	2433	30056	ND	NA
Other SVOC's (mg/kg)							
Biphenyl,1,1-	NE	NA	NA	NA	NA	NA	NA
Dibenzofuran	6.2	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	0.9	NA	NA	NA	NA	NA	NA
Methylphenol,2-	0.1	NA	NA	NA	NA	NA	NA
Phenol	0.03	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082							
PCB's	—	NA	NA	NA	NA	NA	NA
Pesticides (mg/kg) by EPA Method 8081							
Pesticides	—	NA	NA	NA	NA	NA	NA
Metals (mg/kg) by EPA Method 8010							
Aluminum	SB	NA	NA	NA	NA	NA	NA
Antimony	SB	NA	NA	NA	NA	NA	NA
Arsenic	7.5 or SB	NA	NA	NA	NA	NA	NA
Barium	300 or SB	NA	NA	NA	NA	NA	NA
Calcium	SB	NA	NA	NA	NA	NA	NA
Chromium	10 or SB	NA	NA	NA	NA	NA	NA
Cobalt	30 or SB	NA	NA	NA	NA	NA	NA
Copper	25 or SB	NA	NA	NA	NA	NA	NA
Iron	2000 or SB	NA	NA	NA	NA	NA	NA
Lead	SB	NA	NA	NA	NA	NA	NA
Magnesium	SB	NA	NA	NA	NA	NA	NA
Manganese	SB	NA	NA	NA	NA	NA	NA
Nickel	13 or SB	NA	NA	NA	NA	NA	NA
Potassium	SB	NA	NA	NA	NA	NA	NA
Vanadium	150 or SB	NA	NA	NA	NA	NA	NA
Zinc	20 or SB	NA	NA	NA	NA	NA	NA
Total Cyanide (ug/kg) by EPA 8012							
Cyanide, Total	NE	4.1 U	NA	4.5 U	4.6 UJ	4.3 U	NA
Other (%)							
Total Organic Carbon	NE	NA	1.4	NA	NA	NA	0.074

Notes:

Only detected analytes are shown on the table.
 NE - not established
 NA - not analyzed
 ND - not detected
 J - estimated value
 U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
 UJ - estimated detection limit
 (dup) - indicates duplicate sample
 D - indicates that compound concentration was obtained from a diluted sample
 Shading/bolding indicates an exceedance of established New York State
 Recommended Soil Cleanup Objectives for residential soils.
 mg/kg - milligrams/kilogram or parts per million (ppm)
 ug/kg - micrograms/kilograms or parts per billion (ppb)
 SB- site background

Table 1
Soil Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

Chemical Name	NYS Soil Cleanup Objective (TAGM4046)	SB-03 24-26 SB-03 (24-26) 11/19/2003	SB-03 28-30 SB-03 (28-30) 11/19/2003	SB-04 12-14 SB-04 (12-14) 11/20/2003	SB-04 12-14 (dup) SB-11/20/03A 11/20/2003	SB-04 14-16 SB-04(14-16) 11/20/2003	SB-05 13-15 SB-05(13-15) 11/21/2003	SB-05 15-17 SB-05(15-17) 11/21/2003
BTEX								
Benzene	0.06	0.016	0.002 J	0.013 U	0.013 U	NA	NA	0.012 U
Ethylbenzene	5.5	0.012 U	0.013 U	0.013 U	0.013 U	NA	NA	0.012 U
Toluene	1.5	0.015	0.002 J	0.013 U	0.013 U	NA	NA	0.012 U
Xylene, Total	1.2	0.014	0.013 U	0.013 U	0.013 U	NA	NA	0.012 U
Total BTEX	NE	0.045	0.004	ND	ND	NA	NA	ND
Other VOC's								
Methylene Chloride	0.1	NA	0.008 J	NA	NA	NA	NA	NA
Non-carcinogenic PAHs (mg/kg)								
Acenaphthene	50	0.011 J	0.044 J	0.43 U	0.42 U	NA	NA	0.42 U
Acenaphthylene	41	0.078 J	0.26 J	0.43 U	0.42 U	NA	NA	0.42 U
Anthracene	50	0.1 J	0.037 J	0.43 U	0.42 U	NA	NA	0.42 U
Benzo[a,h,i]perylene	50	0.025 J	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U
Fluoranthene	50	0.17 J	0.036 J	0.018 J	0.42 U	NA	NA	0.42 U
Fluorene	50	0.12 J	0.13 J	0.43 U	0.42 U	NA	NA	0.42 U
Methylnaphthalene,2-	36.4	0.18 J	1.8	0.43 U	0.42 U	NA	NA	0.42 U
Naphthalene	13	0.43	5.8 D	0.43 U	0.42 U	NA	NA	0.42 U
Phenanthrene	50	0.28 J	0.11 J	0.014 J	0.42 U	NA	NA	0.42 U
Pyrene	50	0.13 J	0.022 J	0.012 J	0.42 U	NA	NA	0.42 U
Total Noncarcinogenic PAHs	NE	1.524	8.259	0.044	ND	NA	NA	ND
Carcinogenic PAHs (mg/kg)								
Benzo[a]anthracene	0.224	0.099 J	0.019 J	0.43 U	0.42 U	NA	NA	0.42 U
Benzo[a]pyrene	0.061	0.055 J	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U
Benzo[b]fluoranthene	1.1	0.049 J	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U
Benzo[k]fluoranthene	1.1	0.037 J	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U
Chrysene	0.4	0.072 J	0.013 J	0.43 U	0.42 U	NA	NA	0.42 U
Dibenzo[a,h]anthracene	0.014	0.011 J	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U
Indeno[1,2,3-cd]pyrene	3.2	0.024 J	0.4 U	0.43 U	0.42 U	NA	NA	0.42 U
Total Carcinogenic PAHs	NE	0.347	0.032	ND	ND	NA	NA	ND
Total PAHs (mg/kg)								
Total PAHs	NE	1.871	8.291	0.044	ND	NA	NA	ND
Other SVOC's (mg/kg)								
Biphenyl,1,1'-	NE	NA	0.13 J	NA	NA	NA	NA	NA
Dibenzofuran	6.2	NA	0.14 J	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NA	0.4	NA	NA	NA	NA	NA
Methylphenol, 4-	0.9	NA	0.94	NA	NA	NA	NA	NA
Methylphenol,2-	0.1	NA	0.53	NA	NA	NA	NA	NA
Phenol	0.03	NA	1.1 J	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082								
PCB's	—	NA	ND	NA	NA	NA	NA	NA
Pesticides (mg/kg) by EPA Method 8081								
Pesticides	—	NA	ND	NA	NA	NA	NA	NA
Metals (mg/kg) by EPA Method 8010, 8011								
Aluminum	SB	NA	3420	NA	NA	NA	NA	NA
Antimony	SB	NA	0.59 J	NA	NA	NA	NA	NA
Arsenic	7.5 or SB	NA	1.2	NA	NA	NA	NA	NA
Barium	300 or SB	NA	22.5 J	NA	NA	NA	NA	NA
Calcium	SB	NA	20100 J	NA	NA	NA	NA	NA
Chromium	10 or SB	NA	4.3 J	NA	NA	NA	NA	NA
Cobalt	30 or SB	NA	3.5 J	NA	NA	NA	NA	NA
Copper	25 or SB	NA	7.0	NA	NA	NA	NA	NA
Iron	2000 or SB	NA	6130 J	NA	NA	NA	NA	NA
Lead	SB	NA	2.2	NA	NA	NA	NA	NA
Magnesium	SB	NA	6550 J	NA	NA	NA	NA	NA
Manganese	SB	NA	204 J	NA	NA	NA	NA	NA
Nickel	13 or SB	NA	5.8 J	NA	NA	NA	NA	NA
Potassium	SB	NA	655	NA	NA	NA	NA	NA
Vanadium	150 or SB	NA	9.6 J	NA	NA	NA	NA	NA
Zinc	20 or SB	NA	34.7	NA	NA	NA	NA	NA
Total Cyanide (ppm) by EPA 8012								
Cyanide, Total	NE	4.5 U	4.8 U	4.9 UJ	5.2 U	NA	4.0 UJ	4.9 U
Other (%)								
Total Organic Carbon	NE	NA	NA	NA	NA	0.050 U	0.13	NA

Notes:

Only detected analytes are shown on the table.

NE - not established

NA - not analyzed

ND - not detected

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - estimated detection limit

(dup) - indicates duplicate sample

D - indicates that compound concentration was obtained from a diluted sample

Shading/bolding indicates an exceedance of established New York State

Recommended Soil Cleanup Objectives for residential soils.

mg/kg - milligrams/kilogram or parts per million (ppm)

ug/kg - micrograms/kilograms or parts per billion (ppb)

SB - site background

Table 2
Groundwater Depths and Sample Parameters
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, New York

	Sample Locations		
	MW-01	MW-02	MW-03
Sample Date	12/9/2003	12/9/2003	12/9/2003
Sample Time	1415	1250	1115
Measuring Point Elevation (ft NGVD 29)	288.98	289.24	293.71
Screen Interval (ft)*	10.0-20.0	10.0-20.0	12.0-22.0
Depth to Water (ft)*	10.5	10.86	13.9
Groundwater Elevation (ft NGVD 29)	278.48	278.38	279.81
Final Groundwater Parameters			
pH	7.18	7.33	7.33
Conductivity (uS/cm)	1.031	0.7	0.708
Dissolved Oxygen (mg/L)	1.1	3.49	4.17
Temperature (C)	12.56	11.81	11.09
ORP (mV)	+185.8	+171.9	+158.9
Turbidity (NTU)	26	22.5	8.1

Notes:

* measured in feet below top of riser.

NTU = nephelometric turbidity units

C = Celsius

mg/L = milligrams per liter

mV = millivolts

uS/cm = microSiemens per centimeter

Table 3
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

Chemical Name	NYS Ambient Water Quality Standards	MW-01 MW-1 12/9/2003	MW-02 MW-2 12/9/2003	MW-03 MW-3 12/9/2003	Duplicate of MW-03 MW-X 12/9/2003
Volatile Organic Compounds (ug/L) by EPA Method 8260					
BTEX (ug/L)					
Ethylbenzene	5	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U
Xylene, Total	NE	10 U	10 U	10 U	10 U
Benzene	1	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND
Other VOCs (ug/L)					
Chloroform	7	6 J	30	10 U	10 U
Semi-volatile Organic Compounds (ug/L) by EPA Method 8270					
Non-carcinogenic PAHs					
Total Noncarcinogenic PAHs	NE	ND	ND	ND	ND
Carcinogenic PAHs					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
Total PAHs					
Total PAHs	NE	ND	ND	ND	ND
Other SVOCs					
Other SVOCs	---	ND	ND	ND	ND
Total Metals (ug/L) by EPA Method 6010					
Iron	300	71.0 UJ	413 J	24.3 UJ	52.0 UJ
Magnesium	35000	12500	11800	13400	13400
Manganese	300	76.2	37.6	15.5	16.2
Potassium	NE	2830 J	3250 J	4620 J	4650 J
Sodium	20000	136000	61300	80200	79900
Barium	1000	55.6	46.0	42.9	44.8
Calcium	NE	129000	114000	105000	106000

Notes:

Only detected analytes are shown on the table.

NE - not established

NA - not analyzed

ND - not detected

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - estimated detection limit

(dup) - indicates duplicate sample

Shading/bolding indicates an exceedance of established New York State Recommended Soil Cleanup Objectives for residential soils.

ug/L - micrograms/liter or parts per billion (ppb)

Table 4
Air Monitoring Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

Date	Time	Direction from work zone	Volatiles (ppm)	Lower Explosive Limit (%)	Oxygen (%)	Hydrogen Sulfide (ppm)	Carbon Monoxide (ppm)	Dust (mg/m ³)
11/18/2003	0910	work zone	0.2	0	20.9	0	0	0.124
	0915	upwind	0	0	20.8	0	0	0.162
		downwind	0.1	0	20.8	0	0	0.121
	0920	upwind	0.1	0	20.9	0	0	0.124
		downwind	0.1	0	20.8	0	0	0.13
	0928	upwind	0.1	0	20.8	0	0	0.15
		downwind	0.1	0	20.8	0	0	0.138
	0930	upwind	0.1	0	20.8	0	0	0.148
		downwind	0.1	0	20.8	0	0	0.156
	0953	upwind	0	0	20.7	0	0	0.145
		downwind	0.1	0	20.7	0	0	0.153
	1006	upwind	0.1	0	20.7	0	0	0.145
		downwind	0.1	0	20.7	0	0	0.175
	1055	downwind	NR	NR	NR	NR	NR	0.124
	1210	upwind	0.1	NR	NR	NR	NR	NR
		downwind	0.1	NR	NR	NR	NR	NR
	1225	upwind	0.1	NR	NR	NR	NR	NR
		downwind	0.1	NR	NR	NR	NR	NR
	1235	work zone	NR	NR	NR	NR	NR	0.115
	1425	upwind	0.1	NR	NR	NR	NR	0.071
		downwind	0.1	NR	NR	NR	NR	0.071
	1500	upwind	0.1	NR	NR	NR	NR	0.071
		downwind	0.1	NR	NR	NR	NR	0.071
11/19/2003	1311	upwind	0.3	0	20.8	0	0	NR
		downwind	0.8	0	20.8	0	0	NR
	1432	work zone	0.3	0	20.8	0	0	NR
		upwind	0.2	0	20.8	0	0	NR
	1444	downwind	0.1	0	20.8	0	0	NR
		work zone	0.3	0	20.8	0	0	NR
		upwind	0.2	0	20.8	0	0	NR
	1500	downwind	0.1	0	20.8	0	0	NR
11/20/2003	0900	work zone	0.1	0	20.8	0	0	NR
	1015	work zone	0.1	0	20.8	0	0	NR
	1112	work zone	0	0	20.8	0	0	NR
		upwind	0	0	20.8	0	0	NR
		downwind	0	0	20.8	0	0	NR
	1150	work zone	0	0	20.7	0	0	0
		upwind	0	0	20.8	0	0	0
		downwind	0	0	20.8	0	0	0
	1418	work zone	0.3	0	20.8	0	0	NR
		upwind	0.3	0	20.8	0	0	NR
		downwind	0.4	0	20.8	0	0	NR
11/21/2003	0844	work zone	0.1	0	21	0	0	0.007
	1008	work zone	0.2	0	20.8	0	0	0.14
		upwind	0.2	0	20.8	0	0	0.009
		downwind	0.2	0	20.8	0	0	0.027
	1045	work zone	0.2	0	20.8	0	0	0.001
		upwind	0.2	0	20.8	0	0	0.001

Notes:

NR - not recorded

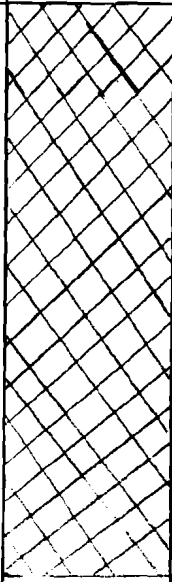
ppm - part per million

mg/m³ - milligrams/cubic meter



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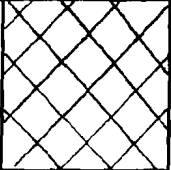
SOIL BORING LOG (SB-01)

Boring/Well ID: SB-01		Client: Niagara Mohawk				
Project Number: 034400		Project Name: Saratoga Springs Non-owned (Lake Ave.)				
Logged By: Lynn Willey		MGP Site				
Date Started: 11/18/03		Location: See map				
Date Completed: 11/18/03		Contractor: Aquifer Drilling and Testing				
Total Depth: 14.5 feet		Driller: Roger Buley				
		Drilling Method: Hollow Stem Auger				
Ground Surface Elevation: 289.38'		Well Construction: Not Applicable	Notes: Headspace readings are indicated below. Formerly MW-01. Changed to soil boring due to refusal.			
Measuring Point Elevation: NA						
Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
0 - 2	4 4 3 3	1.2	2.0	0 - 0.67': Light brown, fine sand, little silt and trace gravel. Non-cohesive. Loose. Dry. No odors or visual impacts. (SP) 0.67' - 2.0': Brown to dark brown, fill (fine sand, little coal fragments and ash). Non-cohesive. Loose. Dry. No odors or visual impacts. (FI)		
2 - 4	7 5 4 2	0.8	N/A	2.0' - 4.0': Tan to light brown, fine sand, trace brick and coal fill. Non-cohesive. Non-plastic. Loose. Dry. No odors or visual impacts. (SP)		
4 - 6	7 4 5 2	0.75	4.4	4.0' - 6.0': Same as above. Fill (light cream ash and 1" brick fragments). Non-cohesive. Non-plastic. Loose. Dry. No odor or visual impacts. (FI)		
6 - 8	6 4 7 8	0.4	6.2	6.0' - 8.0': Fill (medium-coarse sand, ash, silt, gravel, and gravel sized porcelain). Non-cohesive. Loose. Wet. Slight naphthalene-like odor. (FI)		
8 - 10	8 9 10 6	N/A	57	8.0' - 10.0': Same as above. Fill (silt, fine sand, trace brick, gravel). Wet. Moderate coal tar odor. Black tar coated grains. Taffy-like, low viscosity.		
10 - 12	6 4 4 8	0.7	179	10.0' - 12.0': Gray brown, fill (fine sand, little silt). Slightly cohesive. Plastic due to tar. Loose. Wet. Strong tar odor. Heavily tar coated grains. (FI)		



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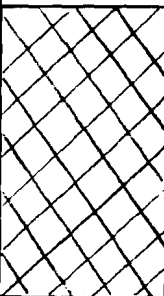
SOIL BORING LOG (SB-01)

Depth (feet)	Blow Count s	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
12 - 14	10 8 10 8	0.5	864	12.0' - 14.0': Black, fill (gravel sized brick). Strong tar odor. Brick heavily coated with viscous tar. Blebs in water. Sheen on water. (FI)		
14 - 15.5	8 6 50/3"	1.083	NA	14.0' - 15.5': Black, 3" tan brick/mortar fragments. Slightly Plastic. Loose. Tar saturated. Semi-viscous black tar. (FI) Refusal at 15.5'. Inferred bottom of holder.		



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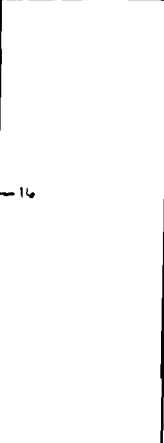
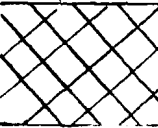
SOIL BORING LOG (SB-02)

Boring/Well ID: SB-02		Client: Niagara Mohawk				
Project Number: 034400		Project Name: Saratoga Springs Non-owned (Lake Ave.)				
Logged By: Lynn Willey		MGP Site				
Date Started: 11/18/03		Location: See map				
Date Completed: 11/18/03		Contractor: Aquifer Drilling and Testing				
Total Depth: 16.25 feet		Driller: Roger Buley				
		Drilling Method: Hollow Stem Auger				
Ground Surface Elevation: 289.44'		Well Construction: Not Applicable	Notes: Headspace readings are indicated below.			
Measuring Point Elevation: NA						
Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
0 - 2	12 11 12 11	0.8	2.9	0 - 2.0': Brown, fine sand, some silt, trace fill (brick fragments and coal). Non-cohesive. Dry. No odors or visual impacts. (SP)		4
2 - 4	16 9 8 9	0.7	3.2	2.0' - 3.14': Same as above with large coarse grain clinker. Non-cohesive. Dry. (SP) 3.14' - 4.0': Tan, brick fragments. Non-cohesive. Dry. No odors or visual impacts. (FI)		
4 - 6	2 4 4 6	0.3	7.4	4.0' - 6.0': Brown to dark brown, fill (fine sand, little silt, little fine brick fragments). Cohesive. Dry. (FI)		8
6 - 8	3 1 WOR 1	0.92	2.5	6.0' - 8.0': Brown to light brown, fine sand, little-some silt. Slightly cohesive. Non-plastic. Wet. No odors or visual impacts. (SP)		
8 - 10	No blow count		22	8.0' - 10.0': Brown/gray, fine sand, little silt. Non-cohesive. Loose. Wet. No odors or visual impacts. (SP)		12
10 - 12	3 1 2 4	1.3	NA	10.0' - 12.0': Gray, fine sand, little coarse sand, trace fine gravel, little silt. Slightly cohesive. Non-plastic. Loose. Wet. Slight coal tar-like odor. (SP)		



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SOIL BORING LOG (SB-02)

Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
12 - 14	8 2 2 7	1.0	417	12.0' - 14.0': Gray brown, fine-medium sand, trace silt and fill containing brick fragments. Cohesive (tar coated areas). Viscous. 3" layer of heavily coated grains. Strong tar odor. (SP)		
14 - 16	WOR 2 5 3	0.5	1172	14.0' - 15.0': Gray brown, fine sand, little silt and trace fragments of brick. Non-cohesive. Wet. (SM) 15.0' - 16.0': Tar saturated fill (brick fragments). Strong tar odor. (FI)		
16 - 16.5	50/3"	0.5	315	16.0" - 16.5": Tan/brown, fill (brick fragments, silt with little fine-coarse sand). Wet. Brick fragments coated with lense of tar. (FI)		



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SOIL BORING LOG (SB-03/MW-01)

Boring/Well ID: SB-03/MW-01 Project Number: 034400 Logged By: Lynn Willey Date Started: 11/19/03 Date Completed: 11/19/03 Total Depth: 30.0 feet		Client: Niagara Mohawk Project Name: Saratoga Springs Non-owned (Lake Ave) MGP Site Location: See map Contractor: Aquifer Drilling and Testing Driller: Roger Buley Drilling Method: Hollow Stem Auger				
Ground Surface Elevation: 289.61' Measuring Point Elevation: 288.98'		Well Construction: Riser 0 - 10' Screen 10' - 20' Grout 0 - 6' Bentonite Chips 6' - 8' Filter Sand 8' - 22' Bentonite Chips 22' - 30'	Notes: Headspace readings are indicated below. Soil Boring SB-03 converted to monitoring well MW-01.			
Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
0 - 8	N/A	N/A	N/A	0 - 8.0': Augered to 8' below ground surface. TP-01 was completed adjacent to this location. See TP-01 log for lithology information.		
8 - 10	5 4 3 2	0.6	3.1	8.0' - 10.0': Light brown/gray brown, fine sand, some to little silt. Non-cohesive. Loose. Damp. No odors or visual impacts. (SM)		
10 - 12	5 4 2 2	1.0	3.3	10.0' - 12.0': Same as above. Brown, fine sand, little silt. Non-cohesive. Wet at ~11'. No odors or visual impacts. (SM)		
12 - 14	7 4 4 3	0.9	3.3	12.0' - 14.0': Brown, fine sand. Well-sorted. Layer of orange-brown fine-coarse sand at top. Non-cohesive. Loose. Wet (into water table). No odor or visual impacts. (SW)		
14 - 16	5 3 3 5	1.0	1.4	14.0' - 16.0': Same as above. (SW)		
16 - 18	N/A	1.5	2.0	16.0' - 18.0': Gray brown, fine sand. Well-sorted. Non-cohesive. Loose. Wet. No odor or visual impacts through majority of sample. Trace sheen on spoon near upper 2" of sample. (SW)		



SOIL BORING LOG (SB-03/MW-01)

Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
18 - 20	6 2 20 22	1.25	2.6	18.0' - 20.0': Brown, fine sand. Well-sorted. Moderately dense. Wet. No odors or visual impacts. (SW)		
20 - 22	4 12 15 17	0.8	2.0	20.0' - 22.0': Same as above. No odors or visual impacts.		
22 - 24	NR	0.8	2.1	22.0" - 24.0": Same as above. No odors. Spotty sheen on top of spoon.		
24 - 26	4 7 10 12	0.9	5.5	24.0' - 25.78': Brown to light brown, fine sand, trace to little silt. Well-sorted. Non-cohesive. Wet. Trace naphthalene/coal tar odor. No visual impacts. (SW) 25.78' - 26.0': Light brown, silty clay. Cohesive. Plastic. Soft. No odors or visual impacts. (CL)		
26 - 28	4 8 12 14	1.5	3.5	26.0' - 26.33': Light brown, silty clay. Cohesive. Plastic. Wet. No odors or visual impacts. (CL) 26.33' - 28.0': Progresses to light brown, silt, little fine to very fine sand and little clay. Cohesive. Slightly plastic. Wet. No odors or visual impacts. (ML)		
28 - 30	10 20 26 35	1.6	2.5	28.0" - 30.0': Light brown, silty fine sand, trace clay. Well-sorted. Cohesive. Slightly plastic. Wet. No odors or visual impacts. (ML)		



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SOIL BORING LOG (SB-04/MW-02)

Boring/Well ID: Project Number: Logged By: Date Started: Date Completed: Total Depth:		SB-04/MW-02 034400 Lynn Willey 11/20/03 11/20/03 30.0 feet		Client: Project Name: Location: Contractor: Driller: Drilling Method:		Niagara Mohawk Saratoga Springs Non-owned (Lake Ave.) MGP Site See map Aquifer Drilling and Testing Roger Buley Hollow Stem Auger	
Ground Surface Elevation: Measuring Point Elevation:		289.73' 289.24'		Well Construction: Riser 0 – 10' Screen 10' – 20' Concrete 0 – 0.5' Grout 0.5' – 6' Bentonite Chips 6' – 8' Filter Sand 8' – 22' Bentonite Chips 22' – 30'		Notes: Headspace readings are indicated below. Soil Boring SB-04 converted to monitoring well MW-02.	
Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description		Lithology (not to scale)	Well Construction
0 – 2	2 8 12 24	1.1	0.1	0 – 2.0': Brown/dark brown, fine sand, some silt. Little fill, brick in shoe. Non-cohesive. Loose. Dry. No odors or visual impacts. (SP)			
2 - 4	4 7 5 7	1.2	0.1	2.0' – 4.0': Brown, fine sand, trace silt. Well-sorted. Non-cohesive. Damp. No odors or visual impacts. (SW)			
4 – 6	1 3 2 2	1.1	0.1	4.0' – 6.0': Fine sand, trace silt. Well-sorted. Non-cohesive. Loose. Damp. No odors or visual impacts. (SW)			
6 - 8	5 4 4 5	1.1	0.3	6.0' – 8.0': Same as above. No odors or visual impacts.			
8 – 10	4 3 3 3	1.1	0.0	8.0' – 10.0': Brown, fine sand, trace fill (piece of gravel sized pipe). Well-sorted. Non-cohesive. Non-plastic. Damp. (SW)			
10 – 12	8 10 10 12	1.5	0.0	10.0'- 12.0': SAA. Moist. No odor or visual impacts. (SW)			
12 - 14	7 7 11	1.5	1.2	12.0' – 14.0': Same as above. Wet (into water table). No odors or visual impacts.			

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SOIL BORING LOG (SB-04/MW-02)

Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
14 - 16	8 8 9 11	0.8	0.0	14.0' - 16.0': Brown, fine sand. Well-sorted. Non-cohesive. Loose. Wet. No odors or visual impacts. (SW)		
16 - 18	7 8 11 12	NR	N/A	16.0' - 18.0': No recovery.		
18 - 20	4 2 4 6	1.1	0.0	18.0' - 20.0': Fine sand, little silt. Non-cohesive. Very loose. Wet. No odors or visual impacts. (SP)		
20 - 22	3 2 4 5	0.8	0.0	20.0' - 22.0': Fine sand, little silt. Well-sorted. Very loose. Wet. Non-cohesive. No odors or visual impacts. (SW)		
22 - 24	4 3 5 11	NR	0.0	22.0' - 24.0': Same as above. Wet. No odors or visual impacts.		
24 - 26	4 3 8 11	0.6	0.0	24.0' - 26.0': Fine sand. Well-sorted. Non-cohesive. Very loose to loose. Wet. No odors or visual impacts. (SW)		
26 - 28	4 3 8 17	0.6	0.6	26.0' - 28.0': Same as above. Wet. No odors or visual impacts.		
28 - 30	15 15 14 14	1.5	0.0 0.1	28.0' - 28.53': Same as above. Wet. Distinct contact. 28.53' - 30.0': Gray, clay with very fine sand layers. Cohesive. Plastic. Stiff. Moist. No odor or visual impact. (CH)		



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SOIL BORING LOG (SB-05/MW-03)

Boring/Well ID: SB-05/MW-03 Project Number: 034400 Logged By: Lynn Willey Date Started: 11/21/03 Date Completed: 11/21/03 Total Depth: 30.0 feet		Client: Niagara Mohawk Project Name: Saratoga Springs Non-owned (Lake Ave.) MGP Site Location: See map Contractor: Aquifer Drilling and Testing Driller: Roger Buley Drilling Method: Hand dug to 5'. Hollow Stem Auger from 5' - 30'						
Ground Surface Elevation: 294.07' Measuring Point Elevation: 293.71'		Well Construction: Riser 0 - 12' Screen 12' - 22' Concrete 0 - 0.5' Grout 0.5' - 8' Bentonite Chips 8' - 10' Filter Sand 10' - 24' Bentonite Chips 24' - 30'	Notes: Headspace readings are indicated below. Soil Boring SB-05 converted to monitoring well MW-03.					
Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction		
0 - 5	N/A	N/A	N/A	0 - 5.0': Boring location was cleared with hand auger. Brown, fine sand with little silt. Well-sorted. Non-cohesive. Damp. No odors or visual impacts. (SW)				
5 - 7	5 4 5 3	1.2	2.9	5.0' - 7.0': Light brown, fine sand. Well-sorted. Non-cohesive. Loose. Damp/dry. No odors or visual impacts. (SW)	4			
7 - 9	3 3 3 3	1.1	1.6	7.0' - 9.0': Same as above. Trace silt. Non-cohesive. Loose. Dry/damp. No odors or visual impacts. (SW)	8			
9 - 11	6 5 3 3	1.3	2.2	9.0' - 11.0': Same as above. Light brown progresses to brown, fine sand, trace silt. Non-cohesive. Loose. No odors or visual impacts. (SW)				
11 - 13	3 2 1 1	NR	2.0	11.0' - 13.0': Brown, fine sand, trace silt. Well-sorted. Non-cohesive. Loose. Damp. No odors or visual impacts. (SW)	12			
13 - 15	4 2 2 2	1.2	1.2	13.0' - 15.0': Brown, fine sand. Well-sorted. Non-cohesive. Loose. Moist to wet. No odors or visual impacts. (SW)	16			
15 - 17	6 7 13 14	0.6	2.2	15.0' - 17.0': Same as above. Little silt. Wet (into water table). No odors or visual impacts. (SW)				

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SOIL BORING LOG (SB-05/MW-03)

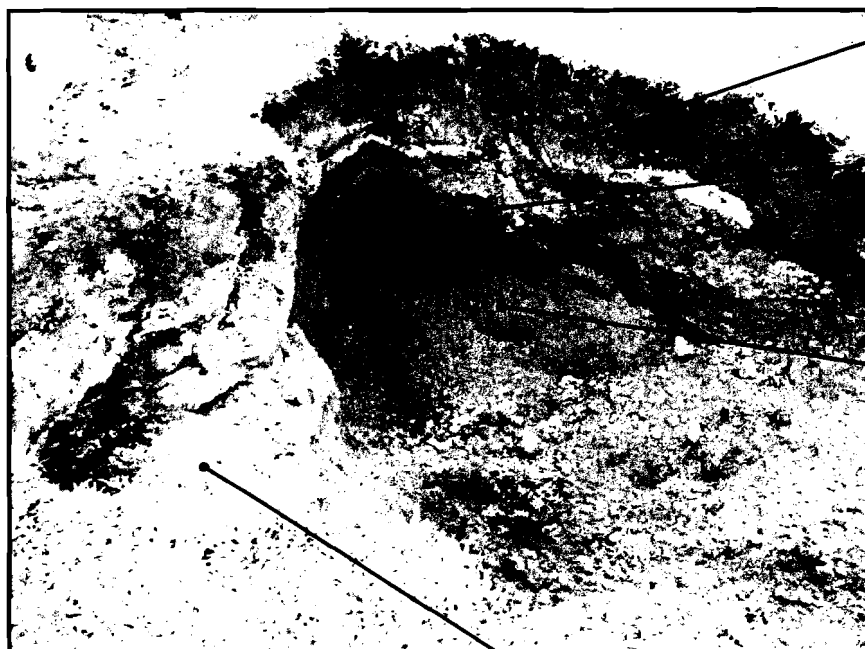
Depth (feet)	Blow Counts	Recovery (feet)	PID (ppm)	Soil Description	Lithology (not to scale)	Well Construction
17 - 19	5 2 4 3	0.8	0.5	17.0' - 19.0': Same as above. Wet. No odors or visual impacts.		
19 - 21	3 2 1 1	0.75	1.2	19.0' - 21.0': Brown, fine sand, little silt. Well-sorted. Non-cohesive. Very loose. No odors or visual impacts. (SW)		
21 - 23	3 3 3 8	0.6	1.0	21.0' - 23.0': Same as above. Wet. No odors or visual impacts.		
23 - 25	5 9 14 16	1.1	2.4	23.0' - 25.0': Light brown, fine sand. Well-sorted. Non-cohesive. Loose to dense. Wet. No odors or visual impacts. (SW)		
25 - 27	5 9 12 17	1.3	2.2	25.0' - 27.0': Same as above. No odors or visual impacts.		
27 - 30	8 16 32 24 20 22	0.6	2.2	27.0' - 30.0': Fine sand. Well-sorted. Non-cohesive. Loose to dense. Wet. No odors or visual impacts. (SW)		

188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415

Ph: (860) 537-0751
Fax: (860) 537-6347

TEST PIT DESCRIPTION SHEET

PROJECT NUMBER: 034400 CALL BEFORE YOU DIG CASE NO.: 11113-069-022-01
TEST PIT NUMBER: TP-1A OBSERVER: JERRY ZAK
GENERAL LOCATION AND/OR PURPOSE: ASSISTANT:
CLOSEST TO FIREHOUSE OTHERS: JOHN RIPP, NYSDEC, E. NEUHAUSER
DATE: NOVEMBER 18, 2003 CONTRACTOR: AQUIFER DRILLING AND TESTING
TIME OPENED: 0900 TIME CLOSED: 1230 EQUIPMENT: BACKHOE EXCAVATOR



0.0-1.5
BROWN, SANDY LOAM, FEW
ROOTS, DRY. NO ODORS. TOP OF
BLOCK WALL AT 1.0 FEET.

1.5-2.0
BLACK, FILL (CINDERS AND
CLINKERS). NO ODORS. 6-INCH
CAST IRON PIPE FRAGMENT
PARALLEL TO PIT AT 2.0 FEET
PIPE IS BROKEN, EMPTY, NO
EVIDENCE OF CONTAMINATION.

2.0-5.0
BROWN, FINE SAND, FILL. NO
ODORS. BASE OF BLOCK WALL AT
4.0 FEET.

5.0
HOLE CAVES IN BELOW 5.0'

BASE OF BLOCK WALL

VIDEO DOCUMENTED: YES _____ NO X

PHOTOGRAPHED: YES X NO _____

DEPTH TO WATER: > 5 FT BGS

ANALYTICAL SAMPLES: NONE

NAPL SEEPAGE: YES _____ NO X

188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415

Ph: (860) 537-0751
Fax: (860) 537-6347

TEST PIT DESCRIPTION SHEET

PROJECT NUMBER: <u>034400</u>	CALL BEFORE YOU DIG CASE NO.: <u>11113-069-022-01</u>
TEST PIT NUMBER: <u>TP-1B</u>	OBSERVER: <u>JERRY ZAK</u>
GENERAL LOCATION AND/OR PURPOSE: <u>CLOSEST TO SHED</u>	ASSISTANT: _____
DATE: <u>NOVEMBER 18, 2003</u>	OTHERS: <u>JOHN RIPP, NYSDEC, E. NEUHAUSER</u>
TIME OPENED: <u>0900</u> TIME CLOSED: <u>1230</u>	CONTRACTOR: <u>AQUIFER DRILLING AND TESTING</u>
	EQUIPMENT: <u>BACKHOE EXCAVATOR</u>



0.0-2.0
BROWN, SAND LOAM, FEW ROOTS,
DRY. NO ODORS.
CINDERS AND ASH 1.7 TO 2.0 FEET.
ASH 1 TO 3 INCHES THICK.

2.0-5.0
BROWN, FINE SAND, FILL. NO
ODORS. HOLE CAVES IN BELOW
5.0 FEET.

VIDEO DOCUMENTED: YES _____ NO X

PHOTOGRAPHED: YES X NO _____

DEPTH TO WATER: > 5 FT BGS

ANALYTICAL SAMPLES: NONE

NAPL SEEPAGE: YES _____ NO X

TEST PIT DESCRIPTION SHEET

PROJECT NUMBER: 034400

CALL BEFORE YOU DIG CASE NO.: 11113-069-022-01

TEST PIT NUMBER: TP-1C

OBSERVER: JERRY ZAK

GENERAL LOCATION AND/OR PURPOSE: CENTERED
BETWEEN AND PERPENDICULAR TO TP-1A

ASSISTANT: _____

DATE: NOVEMBER 18, 2003

OTHERS: JOHN RIPP, NYSDEC, E. NEUHAUSER

TIME OPENED: 0900 TIME CLOSED: 1230

CONTRACTOR: AQUIFER DRILLING AND TESTING

EQUIPMENT: BACKHOE EXCAVATOR



0.0-2.5
BROWN, SAND, FILL. NO ODORS.

2.5-2.8
BLACK, ASH AND CLINKERS, FILL.
NO ODORS.

2.8-5.0
BROWN, FINE SAND, FILL. NO
ODORS.

VIDEO DOCUMENTED: YES _____ NO X

ANALYTICAL SAMPLES: NONE

PHOTOGRAPHED: YES X NO _____

NAPL SEEPAGE: YES _____ NO X

DEPTH TO WATER: > 5 FT BGS