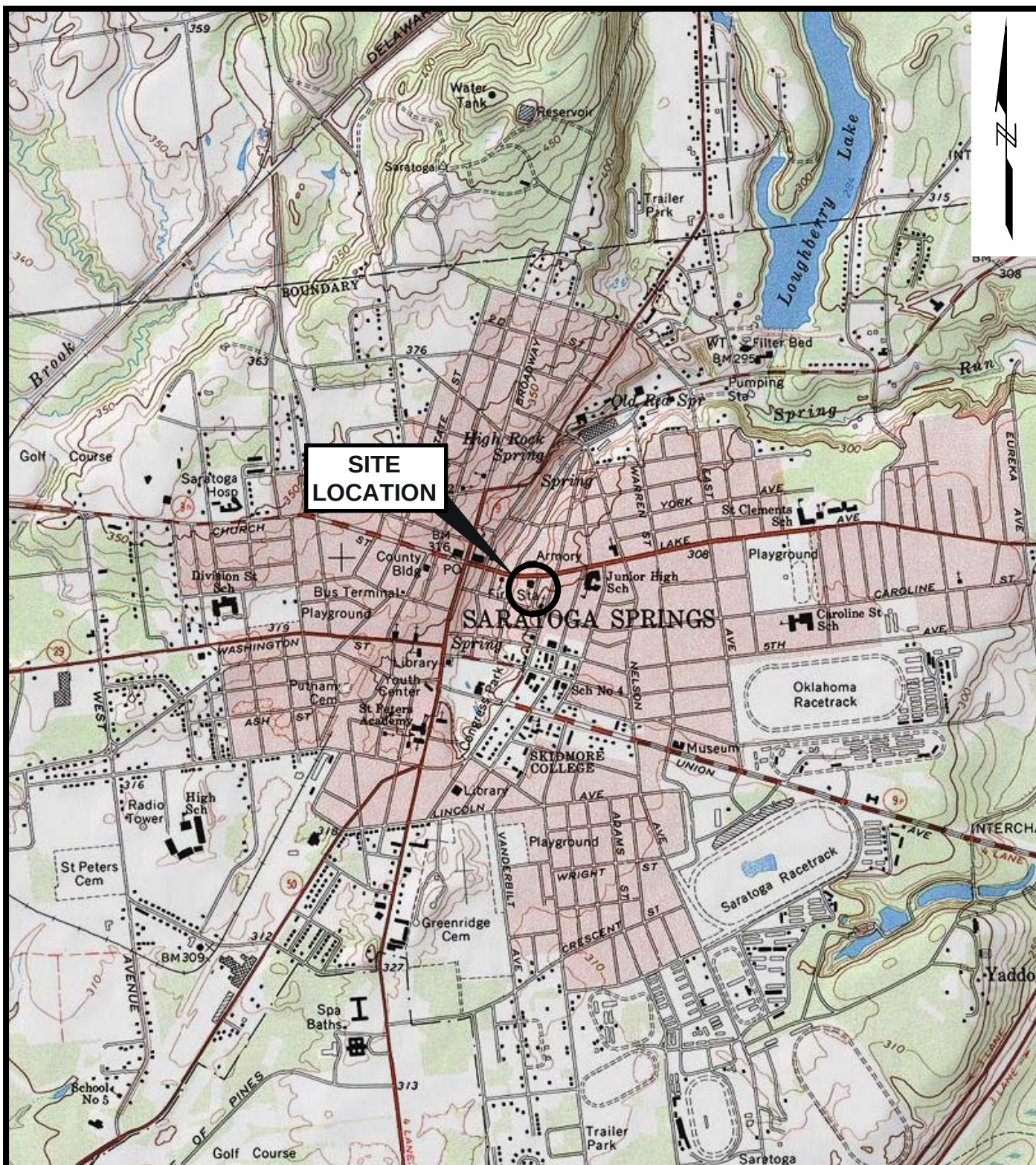




SOURCE: Map created with TOPO!® ©2001 National Geographic
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SARATOGA SPRINGS
NON-OWNED (LAKE AVE.) MGP SITE
SARATOGA SPRINGS, NEW YORK

NATIONAL GRID USA
SYRACUSE, NEW YORK

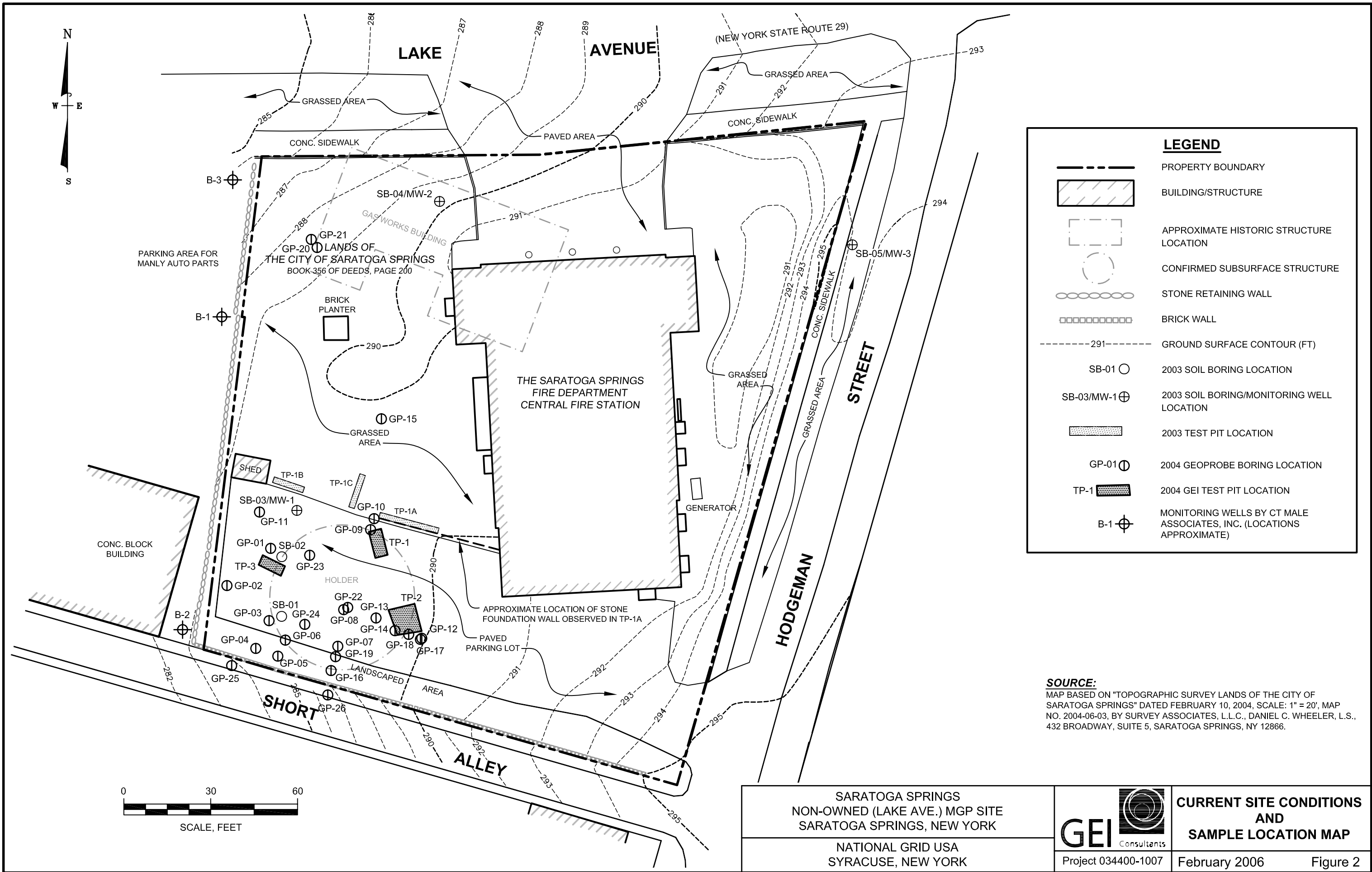


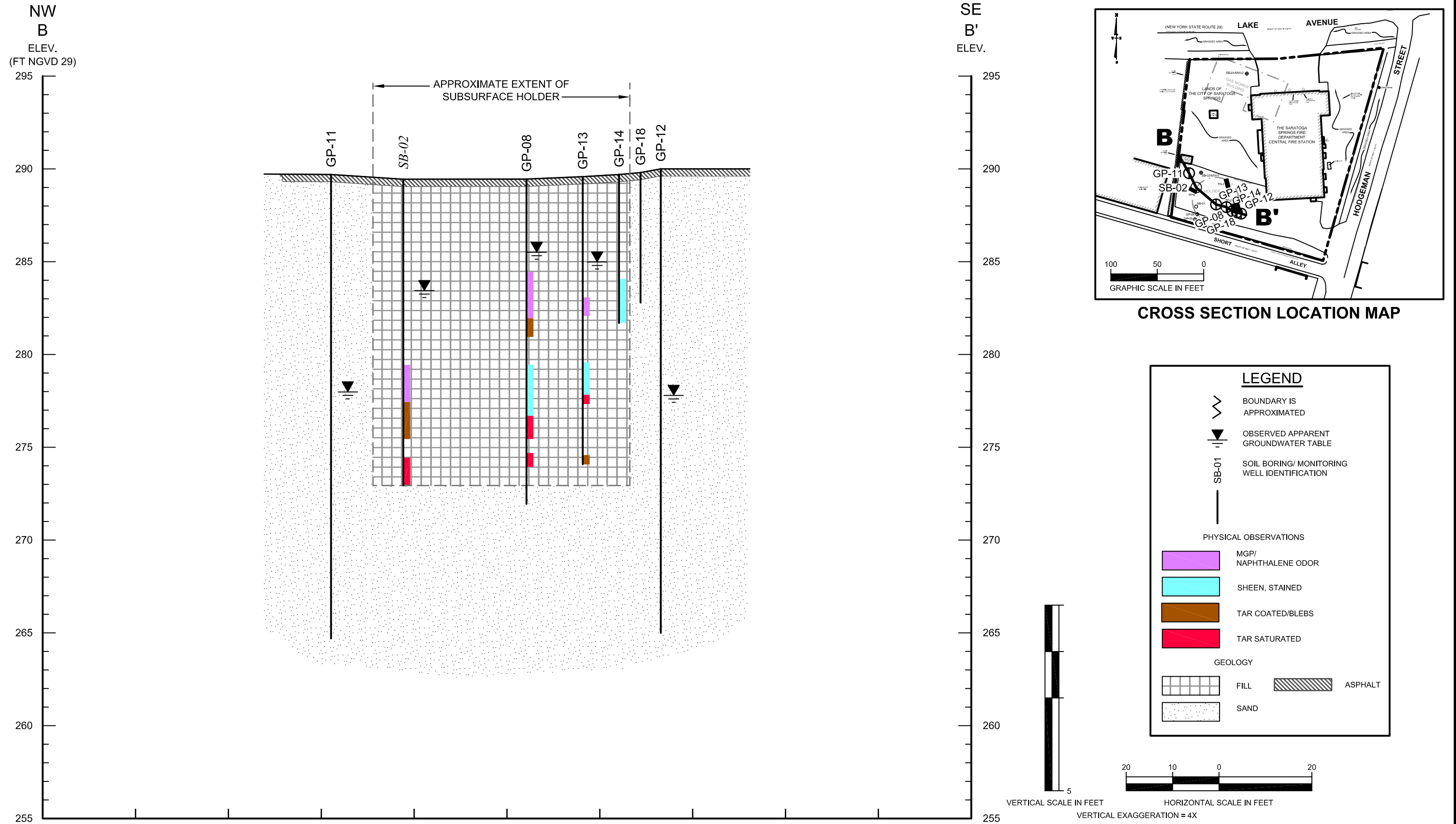
Project 034400-1007

SITE LOCATION MAP

February 2006

Figure 1





NOTE:
1. ITALICIZED BORING IDENTIFICATIONS INDICATE A 2003 SOIL BORING. REGULAR TEXT INDICATES A 2004 GEOPROBE BORING LOCATION.

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

NATIONAL GRID USA
SYRACUSE, NEW YORK

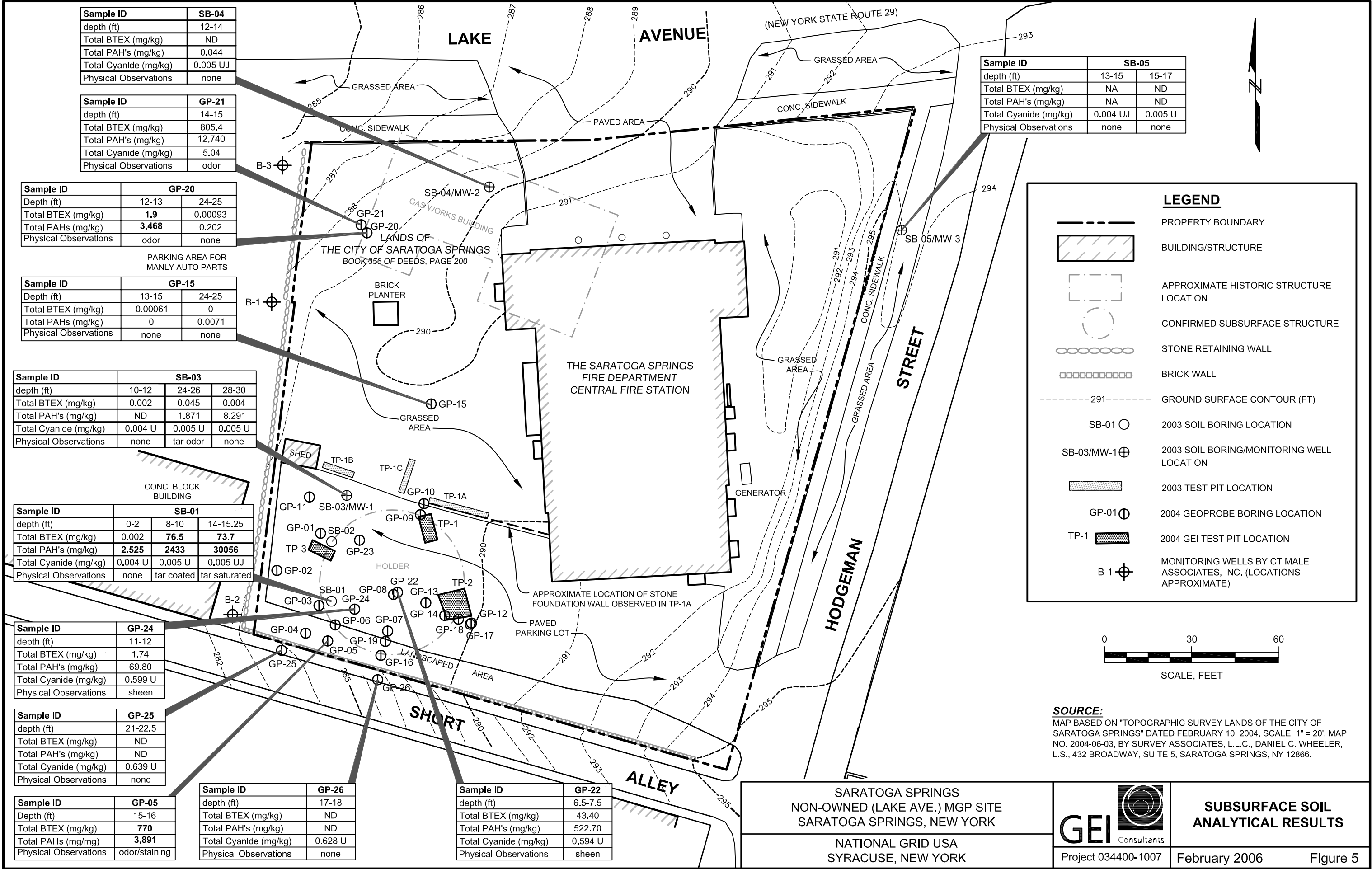


Project 034400-1007

**GEOLOGIC CROSS SECTION
B-B'**

February 2006

Figure 4



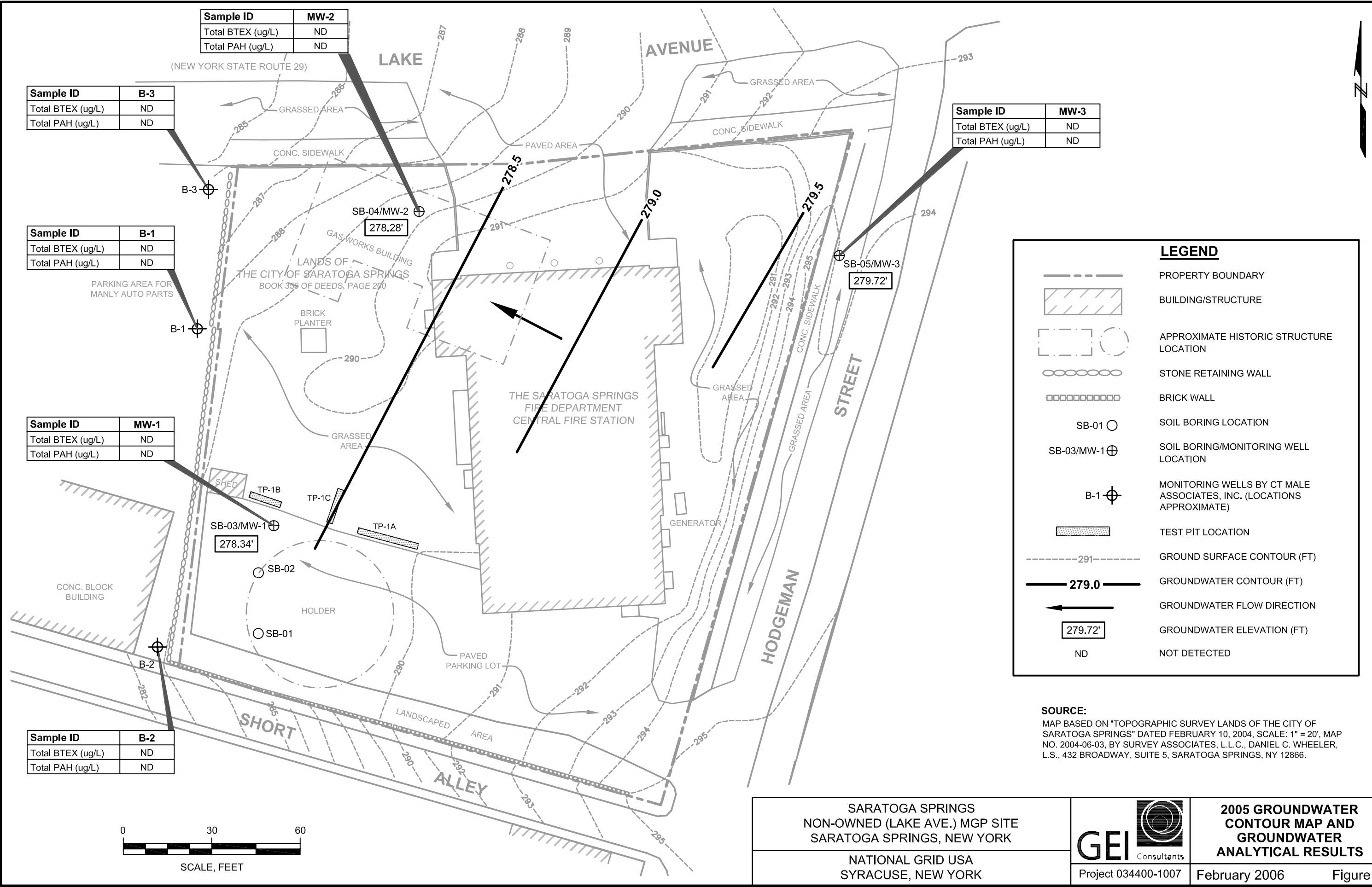


Table 1
Soil Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	SB-01 0 - 2 11/18/2003	SB-01 10 - 12 11/18/2003	SB-01 8- 10 11/18/2003	SB-01 14 - 15.25 11/18/2003	SB-03 10 - 12 11/19/2003
Volatile Organic Compounds (mg/kg) by EPA Method 8260						
BTEX						
Benzene	0.06	0.01 U	NA	7.1	16	0.011 U
Toluene	1.5	0.002 J	NA	24	26	0.002 J
Ethylbenzene	5.5	0.01 U	NA	2.4	1.7	0.011 U
Xylene, Total	1.2	0.01 U	NA	43	30	0.011 U
Total BTEX	NE	0.002	NA	76.5	73.7	0.002
Other VOCs						
Methylene Chloride	0.1	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg) by EPA Method 8270						
Noncarcinogenic PAHs (mg/kg)						
Acenaphthene	50	0.38 U	NA	33 J	420	3.6 U
Acenaphthylene	41	0.038 J	NA	140	1600 DJ	3.6 U
Anthracene	50	0.031 J	NA	130	1500 DJ	3.6 U
Benzo[g,h,i]perylene	50	0.12 J	NA	19 J	96	3.6 U
Fluoranthene	50	0.35 J	NA	180	2100 DJ	3.6 U
Fluorene	50	0.015 J	NA	180	2200 DJ	3.6 U
Methylnaphthalene,2-	36.4	0.091 J	NA	290	4100 D	3.6 U
Naphthalene	13	0.32 J	NA	650 D	8600 D	3.6 U
Phenanthrene	50	0.12 J	NA	290	4200 D	3.6 U
Pyrene	50	0.27 J	NA	120	1500 DJ	3.6 U
Total Noncarcinogenic PAHs	NE	1.355	NA	2032	26316	ND
Carcinogenic PAHs (mg/kg)						
Benz[a]anthracene	0.224	0.24 J	NA	110	1100 DJ	3.6 U
Benzo[a]pyrene	0.061	0.21 J	NA	64 J	570	3.6 U
Benzo[b]fluoranthene	1.1	0.18 J	NA	68 J	480 DJ	3.6 U
Benzo[k]fluoranthene	1.1	0.15 J	NA	33 J	460 DJ	3.6 U
Chrysene	0.4	0.2 J	NA	86	890 DJ	3.6 U
Dibenz[a,h]anthracene	0.014	0.07 J	NA	18 J	110	3.6 U
Indeno[1,2,3-cd]pyrene	3.2	0.12 J	NA	22 J	130	3.6 U
Total Carcinogenic PAHs	NE	1.17	NA	401	3740	ND
Total PAHs (mg/kg)						
Total PAHs	NE	2.525	NA	2433	30056	ND
Other SVOCs (mg/kg)						
Biphenyl,1,1-	NE	NA	NA	NA	NA	NA
Dibenzofuran	6.2	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NA	NA	NA	NA	NA
Methylphenol, 4-	0.9	NA	NA	NA	NA	NA
Methylphenol,2-	0.1	NA	NA	NA	NA	NA
Phenol	0.03	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082						
PCBs	---	NA	NA	NA	NA	NA
Pesticides (mg/kg) by EPA Method 8081						
Pesticides	---	NA	NA	NA	NA	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	SB-01 0 - 2 11/18/2003	SB-01 10 - 12 11/18/2003	SB-01 8- 10 11/18/2003	SB-01 14 - 15.25 11/18/2003	SB-03 10 - 12 11/19/2003
Metals (mg/kg) by EPA Method 6010						
Aluminum	SB	NA	NA	NA	NA	NA
Antimony	SB	NA	NA	NA	NA	NA
Arsenic	7.5 or SB	NA	NA	NA	NA	NA
Barium	300 or SB	NA	NA	NA	NA	NA
Calcium	SB	NA	NA	NA	NA	NA
Chromium	10 or SB	NA	NA	NA	NA	NA
Cobalt	30 or SB	NA	NA	NA	NA	NA
Copper	25 or SB	NA	NA	NA	NA	NA
Iron	2000 or SB	NA	NA	NA	NA	NA
Lead	SB	NA	NA	NA	NA	NA
Magnesium	SB	NA	NA	NA	NA	NA
Manganese	SB	NA	NA	NA	NA	NA
Nickel	13 or SB	NA	NA	NA	NA	NA
Potassium	SB	NA	NA	NA	NA	NA
Sodium	SB	NA	NA	NA	NA	NA
Vanadium	150 or SB	NA	NA	NA	NA	NA
Zinc	20 or SB	NA	NA	NA	NA	NA
Total Cyanide (mg/kg) by EPA 9012						
Cyanide, Total	NE	0.0041 U	NA	0.0045 U	0.0046 UJ	0.0043 U
Other (%)						
Total Organic Carbon	NE	NA	1.4	NA	NA	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	SB-03 12 - 14 11/19/2003	SB-03 24 - 26 11/19/2003	SB-03 28 - 30 11/19/2003	SB-04 12 - 14 11/20/2003
Volatile Organic Compounds (mg/kg) by EPA Method 8260					
BTEX					
Benzene	0.06	NA	0.016	0.002 J	0.013 U
Toluene	1.5	NA	0.015	0.002 J	0.013 U
Ethylbenzene	5.5	NA	0.012 U	0.013 U	0.013 U
Xylene, Total	1.2	NA	0.014	0.013 U	0.013 U
Total BTEX	NE	NA	0.045	0.004	ND
Other VOCs					
Methylene Chloride	0.1	NA	NA	0.008 J	NA
Semivolatile Organic Compounds (mg/kg) by EPA Method 8270					
Noncarcinogenic PAHs (mg/kg)					
Acenaphthene	50	NA	0.011 J	0.044 J	0.43 U
Acenaphthylene	41	NA	0.078 J	0.28 J	0.43 U
Anthracene	50	NA	0.1 J	0.037 J	0.43 U
Benzo[g,h,i]perylene	50	NA	0.025 J	0.4 U	0.43 U
Fluoranthene	50	NA	0.17 J	0.036 J	0.018 J
Fluorene	50	NA	0.12 J	0.13 J	0.43 U
Methylnaphthalene,2-	36.4	NA	0.18 J	1.8	0.43 U
Naphthalene	13	NA	0.43	5.8 D	0.43 U
Phenanthrene	50	NA	0.28 J	0.11 J	0.014 J
Pyrene	50	NA	0.13 J	0.022 J	0.012 J
Total Noncarcinogenic PAHs	NE	NA	1.524	8.259	0.044
Carcinogenic PAHs (mg/kg)					
Benz[a]anthracene	0.224	NA	0.099 J	0.019 J	0.43 U
Benzo[a]pyrene	0.061	NA	0.055 J	0.4 U	0.43 U
Benzo[b]fluoranthene	1.1	NA	0.049 J	0.4 U	0.43 U
Benzo[k]fluoranthene	1.1	NA	0.037 J	0.4 U	0.43 U
Chrysene	0.4	NA	0.072 J	0.013 J	0.43 U
Dibenz[a,h]anthracene	0.014	NA	0.011 J	0.4 U	0.43 U
Indeno[1,2,3-cd]pyrene	3.2	NA	0.024 J	0.4 U	0.43 U
Total Carcinogenic PAHs	NE	NA	0.347	0.032	ND
Total PAHs (mg/kg)					
Total PAHs	NE	NA	1.871	8.291	0.044
Other SVOCs (mg/kg)					
Biphenyl,1,1-	NE	NA	NA	0.13 J	NA
Dibenzofuran	6.2	NA	NA	0.14 J	NA
Dimethylphenol, 2,4-	NE	NA	NA	0.4	NA
Methylphenol, 4-	0.9	NA	NA	0.94	NA
Methylphenol,2-	0.1	NA	NA	0.53	NA
Phenol	0.03	NA	NA	1.1 J	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082					
PCBs	---	NA	NA	ND	NA
Pesticides (mg/kg) by EPA Method 8081					
Pesticides	---	NA	NA	ND	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	SB-03 12 - 14 11/19/2003	SB-03 24 - 26 11/19/2003	SB-03 28 - 30 11/19/2003	SB-04 12 - 14 11/20/2003
Metals (mg/kg) by EPA Method 6010					
Aluminum	SB	NA	NA	3420	NA
Antimony	SB	NA	NA	0.59 J	NA
Arsenic	7.5 or SB	NA	NA	1.2	NA
Barium	300 or SB	NA	NA	22.5 J	NA
Calcium	SB	NA	NA	20100 J	NA
Chromium	10 or SB	NA	NA	4.3 J	NA
Cobalt	30 or SB	NA	NA	3.5 J	NA
Copper	25 or SB	NA	NA	7.0	NA
Iron	2000 or SB	NA	NA	8130 J	NA
Lead	SB	NA	NA	2.2	NA
Magnesium	SB	NA	NA	6550 J	NA
Manganese	SB	NA	NA	204 J	NA
Nickel	13 or SB	NA	NA	5.8 J	NA
Potassium	SB	NA	NA	655	NA
Sodium	SB	NA	NA	107 U	NA
Vanadium	150 or SB	NA	NA	9.6 J	NA
Zinc	20 or SB	NA	NA	24.7	NA
Total Cyanide (mg/kg) by EPA 9012					
Cyanide, Total	NE	NA	0.0045 U	0.0048 U	0.0049 UJ
Other (%)					
Total Organic Carbon	NE	0.074	NA	NA	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	SB-04 12 - 14 (dup) 11/20/2003	SB-04 14 - 16 11/20/2003	SB-05 13 - 15 11/21/2003	SB-05 15 - 17 11/21/2003
Volatile Organic Compounds (mg/kg) by EPA Method 8260					
BTEX					
Benzene	0.06	0.013 U	NA	NA	0.012 U
Toluene	1.5	0.013 U	NA	NA	0.012 U
Ethylbenzene	5.5	0.013 U	NA	NA	0.012 U
Xylene, Total	1.2	0.013 U	NA	NA	0.012 U
Total BTEX	NE	ND	NA	NA	ND
Other VOCs					
Methylene Chloride	0.1	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg) by EPA Method 8270					
Noncarcinogenic PAHs (mg/kg)					
Acenaphthene	50	0.42 U	NA	NA	0.42 U
Acenaphthylene	41	0.42 U	NA	NA	0.42 U
Anthracene	50	0.42 U	NA	NA	0.42 U
Benzo[g,h,i]perylene	50	0.42 U	NA	NA	0.42 U
Fluoranthene	50	0.42 U	NA	NA	0.42 U
Fluorene	50	0.42 U	NA	NA	0.42 U
Methylnaphthalene,2-	36.4	0.42 U	NA	NA	0.42 U
Naphthalene	13	0.42 U	NA	NA	0.42 U
Phenanthrene	50	0.42 U	NA	NA	0.42 U
Pyrene	50	0.42 U	NA	NA	0.42 U
Total Noncarcinogenic PAHs	NE	ND	NA	NA	ND
Carcinogenic PAHs (mg/kg)					
Benz[a]anthracene	0.224	0.42 U	NA	NA	0.42 U
Benzo[a]pyrene	0.061	0.42 U	NA	NA	0.42 U
Benzo[b]fluoranthene	1.1	0.42 U	NA	NA	0.42 U
Benzo[k]fluoranthene	1.1	0.42 U	NA	NA	0.42 U
Chrysene	0.4	0.42 U	NA	NA	0.42 U
Dibenz[a,h]anthracene	0.014	0.42 U	NA	NA	0.42 U
Indeno[1,2,3-cd]pyrene	3.2	0.42 U	NA	NA	0.42 U
Total Carcinogenic PAHs	NE	ND	NA	NA	ND
Total PAHs (mg/kg)					
Total PAHs	NE	ND	NA	NA	ND
Other SVOCs (mg/kg)					
Biphenyl,1,1-	NE	NA	NA	NA	NA
Dibenzofuran	6.2	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NA	NA	NA	NA
Methylphenol, 4-	0.9	NA	NA	NA	NA
Methylphenol,2-	0.1	NA	NA	NA	NA
Phenol	0.03	NA	NA	NA	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082					
PCBs	---	NA	NA	NA	NA
Pesticides (mg/kg) by EPA Method 8081					
Pesticides	---	NA	NA	NA	NA

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

Sample Location:	NYS Soil Cleanup Objective	SB-04	SB-04	SB-05	SB-05
Depth Interval in feet:		12 - 14 (dup)	14 - 16	13 - 15	15 - 17
Date Collected:	(TAGM4046)	11/20/2003	11/20/2003	11/21/2003	11/21/2003
Metals (mg/kg) by EPA Method 6010					
Aluminum	SB	NA	NA	NA	NA
Antimony	SB	NA	NA	NA	NA
Arsenic	7.5 or SB	NA	NA	NA	NA
Barium	300 or SB	NA	NA	NA	NA
Calcium	SB	NA	NA	NA	NA
Chromium	10 or SB	NA	NA	NA	NA
Cobalt	30 or SB	NA	NA	NA	NA
Copper	25 or SB	NA	NA	NA	NA
Iron	2000 or SB	NA	NA	NA	NA
Lead	SB	NA	NA	NA	NA
Magnesium	SB	NA	NA	NA	NA
Manganese	SB	NA	NA	NA	NA
Nickel	13 or SB	NA	NA	NA	NA
Potassium	SB	NA	NA	NA	NA
Sodium	SB	NA	NA	NA	NA
Vanadium	150 or SB	NA	NA	NA	NA
Zinc	20 or SB	NA	NA	NA	NA
Total Cyanide (mg/kg) by EPA 9012					
Cyanide, Total	NE	0.0052 U	NA	0.004 UJ	0.0049 U
Other (%)					
Total Organic Carbon	NE	NA	0.050 U	0.13	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	GP-05 15 - 16 11/17/2004	GP-15 13 - 15 11/17/2004	GP-15 24 - 25 11/17/2004	GP-20 12 - 13 11/17/2004	GP-20 24 - 25 11/17/2004
Volatile Organic Compounds (mg/kg) by EPA Method 8260						
BTEX						
Benzene	0.06	99	0.0057 U	0.0063 U	1.2 U	0.0066 U
Toluene	1.5	240	0.00061 J	0.0063 U	1.2 U	0.00093 J
Ethylbenzene	5.5	31	0.0057 U	0.0063 U	1.2 U	0.0066 U
Xylene, Total	1.2	400	0.0057 U	0.0063 U	1.9	0.0066 U
Total BTEX	NE	770	0.00061	ND	1.9	0.00093
Other VOCs						
Methylene Chloride	0.1	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg) by EPA Method 8270						
Noncarcinogenic PAHs (mg/kg)						
Acenaphthene	50	38 J	0.37 U	0.4 UJ	44 J	0.42 U
Acenaphthylene	41	240	0.37 U	0.071 J	140 J	0.059 J
Anthracene	50	170 J	0.37 U	0.4 U	130 J	0.42 U
Benzo[g,h,i]perylene	50	32 J	0.37 U	0.4 U	52 J	0.42 U
Fluoranthene	50	240 J	0.37 U	0.4 U	380 J	0.072 J
Fluorene	50	260	0.37 U	0.4 U	150 J	0.42 U
Methylnaphthalene,2-	36.4	520 J	0.37 U	0.4 U	750 J	0.42 U
Naphthalene	13	1200	0.37 U	0.4 U	400	0.42 U
Phenanthrene	50	560	0.37 U	0.4 U	550	0.071 J
Pyrene	50	170 J	0.37 U	0.4 U	220	0.42 U
Total Noncarcinogenic PAHs	NE	3430	ND	0.071	2816	0.202
Carcinogenic PAHs (mg/kg)						
Benz[a]anthracene	0.224	130 J	0.37 U	0.4 U	170 J	0.42 U
Benzo[a]pyrene	0.061	88 J	0.37 U	0.4 U	91 J	0.42 U
Benzo[b]fluoranthene	1.1	62 J	0.37 U	0.4 U	87 J	0.42 U
Benzo[k]fluoranthene	1.1	71 J	0.37 U	0.4 U	110 J	0.42 U
Chrysene	0.4	110 J	0.37 U	0.4 U	150 J	0.42 U
Dibenz[a,h]anthracene	0.014	190 U	0.37 U	0.4 U	200 U	0.42 U
Indeno[1,2,3-cd]pyrene	3.2	190 U	0.37 U	0.4 U	44 J	0.42 U
Total Carcinogenic PAHs	NE	461	ND	ND	652	ND
Total PAHs (mg/kg)						
Total PAHs	NE	3891	ND	0.071	3468	0.202
Other SVOCs (mg/kg)						
Biphenyl,1,1-	NE	NA	NA	NA	NA	NA
Dibenzofuran	6.2	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NA	NA	NA	NA	NA
Methylphenol, 4-	0.9	NA	NA	NA	NA	NA
Methylphenol,2-	0.1	NA	NA	NA	NA	NA
Phenol	0.03	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082						
PCBs	---	NA	NA	NA	NA	NA
Pesticides (mg/kg) by EPA Method 8081						
Pesticides	---	NA	NA	NA	NA	NA

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

Sample Location:	NYS Soil Cleanup	GP-05	GP-15	GP-15	GP-20	GP-20
Depth Interval in feet:	Objective	15 - 16	13 - 15	24 - 25	12 - 13	24 - 25
Date Collected:	(TAGM4046)	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004
Metals (mg/kg) by EPA Method 6010						
Aluminum	SB	NA	NA	NA	NA	NA
Antimony	SB	NA	NA	NA	NA	NA
Arsenic	7.5 or SB	NA	NA	NA	NA	NA
Barium	300 or SB	NA	NA	NA	NA	NA
Calcium	SB	NA	NA	NA	NA	NA
Chromium	10 or SB	NA	NA	NA	NA	NA
Cobalt	30 or SB	NA	NA	NA	NA	NA
Copper	25 or SB	NA	NA	NA	NA	NA
Iron	2000 or SB	NA	NA	NA	NA	NA
Lead	SB	NA	NA	NA	NA	NA
Magnesium	SB	NA	NA	NA	NA	NA
Manganese	SB	NA	NA	NA	NA	NA
Nickel	13 or SB	NA	NA	NA	NA	NA
Potassium	SB	NA	NA	NA	NA	NA
Sodium	SB	NA	NA	NA	NA	NA
Vanadium	150 or SB	NA	NA	NA	NA	NA
Zinc	20 or SB	NA	NA	NA	NA	NA
Total Cyanide (mg/kg) by EPA 9012						
Cyanide, Total	NE	NA	NA	NA	NA	NA
Other (%)						
Total Organic Carbon	NE	NA	NA	NA	NA	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	GP-20 24 - 25 dup 11/17/2004	GP-21 14 - 15 11/15/2005	GP-22 6.5 - 7.5 11/16/2005	GP-23 10 - 11 11/16/2005
Volatile Organic Compounds (mg/kg) by EPA Method 8260					
BTEX					
Benzene	0.06	0.00067 J	30 U	3.8 J	0.97 J
Toluene	1.5	0.00097 J	9.4 J	8.3	0.52 J
Ethylbenzene	5.5	0.0065 U	36	4.3 J	1.2 UJ
Xylene, Total	1.2	0.0065 U	760	27	1.4 J
Total BTEX	NE	0.00164	805.4	43.4	2.89
Other VOCs					
Methylene Chloride	0.1	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg) by EPA Method 8270					
Noncarcinogenic PAHs (mg/kg)					
Acenaphthene	50	0.41 U	150 J	3.7 J	6.8 J
Acenaphthylene	41	0.41 U	610	11	22
Anthracene	50	0.41 U	480	34	26
Benzo[g,h,i]perylene	50	0.41 U	87 J	19 J	7.7 J
Fluoranthene	50	0.41 U	670	76	46
Fluorene	50	0.41 U	670	17	35
Methylnaphthalene,2-	36.4	0.41 U	2300	5.8 J	34
Naphthalene	13	0.41 U	4300	9.2	38
Phenanthrene	50	0.41 U	1500	66	83
Pyrene	50	0.41 U	640 J	64 J	36 J
Total Noncarcinogenic PAHs	NE	ND	11407	305.7	334.5
Carcinogenic PAHs (mg/kg)					
Benz[a]anthracene	0.224	0.41 U	370	53	24
Benzo[a]pyrene	0.061	0.41 U	200 J	36	15
Benzo[b]fluoranthene	1.1	0.41 U	280 J	45	11
Benzo[k]fluoranthene	1.1	0.41 U	110 J	12	9.8
Chrysene	0.4	0.41 U	290 J	40	18
Dibenz[a,h]anthracene	0.014	0.41 U	310 U	10 J	3 J
Indeno[1,2,3-cd]pyrene	3.2	0.41 U	83 J	21 J	7.1 J
Total Carcinogenic PAHs	NE	ND	1333	217	87.9
Total PAHs (mg/kg)					
Total PAHs	NE	ND	12740	522.7	422.4
Other SVOCs (mg/kg)					
Biphenyl,1,1-	NE	NA	NA	NA	NA
Dibenzofuran	6.2	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NA	NA	NA	NA
Methylphenol, 4-	0.9	NA	NA	NA	NA
Methylphenol,2-	0.1	NA	NA	NA	NA
Phenol	0.03	NA	NA	NA	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082					
PCBs	---	NA	NA	NA	NA
Pesticides (mg/kg) by EPA Method 8081					
Pesticides	---	NA	NA	NA	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	GP-20 24 - 25 dup 11/17/2004	GP-21 14 - 15 11/15/2005	GP-22 6.5 - 7.5 11/16/2005	GP-23 10 - 11 11/16/2005
Metals (mg/kg) by EPA Method 6010					
Aluminum	SB	NA	2400	4800	3790
Antimony	SB	NA	16.5 UJ	11.3 UJ	13.2 UJ
Arsenic	7.5 or SB	NA	3.9 J	6.2 J	5.3 J
Barium	300 or SB	NA	12.9 J	35 J	29 J
Calcium	SB	NA	31800	19500	53700
Chromium	10 or SB	NA	3.4	6.8	5
Cobalt	30 or SB	NA	2.2 J	5.1 J	4 J
Copper	25 or SB	NA	7.8	16.5	11.1
Iron	2000 or SB	NA	7010	12200	16800
Lead	SB	NA	1.8 J	35.9	46.6
Magnesium	SB	NA	4350	3000	3430
Manganese	SB	NA	156	135	303
Nickel	13 or SB	NA	5.4 J	11.9	9 J
Potassium	SB	NA	295 J	469 J	413 J
Sodium	SB	NA	57.8 J	220 J	313 J
Vanadium	150 or SB	NA	5.8 J	12.1	10.1 J
Zinc	20 or SB	NA	18.4	36.1	28.6
Total Cyanide (mg/kg) by EPA 9012					
Cyanide, Total	NE	NA	5.04	0.594 U	0.174 J
Other (%)					
Total Organic Carbon	NE	NA	NA	NA	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	GP-23 10 - 11 dup 11/16/2005	GP-24 11 - 12 11/16/2005	GP-25 21 - 22.5 11/15/2005	GP-26 17 - 18 11/16/2005
Volatile Organic Compounds (mg/kg) by EPA Method 8260					
BTEX					
Benzene	0.06	0.045 J	0.49	0.0064 U	0.0064 U
Toluene	1.5	0.035 J	0.7	0.0064 U	0.0064 U
Ethylbenzene	5.5	0.013 J	0.054	0.0064 U	0.0064 U
Xylene, Total	1.2	0.13 J	0.5	0.0064 U	0.0064 U
Total BTEX	NE	0.223	1.744	ND	ND
Other VOCs					
Methylene Chloride	0.1	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg) by EPA Method 8270					
Noncarcinogenic PAHs (mg/kg)					
Acenaphthene	50	7.4 J	0.71 J	0.42 U	0.42 U
Acenaphthylene	41	25	3.1	0.42 U	0.42 U
Anthracene	50	26	3.1	0.42 U	0.42 U
Benzo[g,h,i]perylene	50	6.1 J	2.1 J	0.42 U	0.42 U
Fluoranthene	50	46	6	0.42 U	0.42 U
Fluorene	50	37	3.5	0.42 U	0.42 U
Methylnaphthalene,2-	36.4	42	5	0.42 U	0.42 U
Naphthalene	13	43	9.7	0.42 U	0.42 U
Phenanthrene	50	81	8.7	0.42 U	0.42 U
Pyrene	50	33 J	6.9 J	0.42 U	0.42 U
Total Noncarcinogenic PAHs	NE	346.5	48.81	ND	ND
Carcinogenic PAHs (mg/kg)					
Benz[a]anthracene	0.224	22	4.5	0.42 U	0.42 U
Benzo[a]pyrene	0.061	15	3.6	0.42 U	0.42 U
Benzo[b]fluoranthene	1.1	19	4.5	0.42 U	0.42 U
Benzo[k]fluoranthene	1.1	7.7 J	1.4	0.42 U	0.42 U
Chrysene	0.4	19	4.1	0.42 U	0.42 U
Dibenz[a,h]anthracene	0.014	2.3 J	0.89 J	0.42 U	0.42 U
Indeno[1,2,3-cd]pyrene	3.2	6.1 J	2 J	0.42 U	0.42 U
Total Carcinogenic PAHs	NE	91.1	20.99	ND	ND
Total PAHs (mg/kg)					
Total PAHs	NE	437.6	69.8	ND	ND
Other SVOCs (mg/kg)					
Biphenyl,1,1-	NE	NA	NA	NA	NA
Dibenzofuran	6.2	NA	NA	NA	NA
Dimethylphenol, 2,4-	NE	NA	NA	NA	NA
Methylphenol, 4-	0.9	NA	NA	NA	NA
Methylphenol,2-	0.1	NA	NA	NA	NA
Phenol	0.03	NA	NA	NA	NA
Polychlorinated Biphenyls (mg/kg) by EPA Method 8082					
PCBs	---	NA	NA	NA	NA
Pesticides (mg/kg) by EPA Method 8081					
Pesticides	---	NA	NA	NA	NA

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

Sample Location: Depth Interval in feet: Date Collected:	NYS Soil Cleanup Objective (TAGM4046)	GP-23 10 - 11 dup 11/16/2005	GP-24 11 - 12 11/16/2005	GP-25 21 - 22.5 11/15/2005	GP-26 17 - 18 11/16/2005
Metals (mg/kg) by EPA Method 6010					
Aluminum	SB	3850	5450	3410	3630
Antimony	SB	17.7 UJ	16 UJ	16.7 UJ	13.8 UJ
Arsenic	7.5 or SB	7.3 J	2.2 J	4.7 J	2.9 J
Barium	300 or SB	23.5 J	23.4 J	27.6 J	29.9 J
Calcium	SB	39200	8410	17400	31000
Chromium	10 or SB	6.2	5.9	4.2	4.6
Cobalt	30 or SB	6.8 J	3.6 J	2.9 J	3.8 J
Copper	25 or SB	17.2	10	8.5	8.9
Iron	2000 or SB	17700	10500	8860	9790
Lead	SB	24.6	31.3	2.7 J	2.5
Magnesium	SB	3670	2560	4140	6430
Manganese	SB	225	128	172	245
Nickel	13 or SB	13.2	9 J	7.1 J	7.5 J
Potassium	SB	420 J	377 J	322 J	374 J
Sodium	SB	235 J	249 J	75.9 J	99.2 J
Vanadium	150 or SB	11.1 J	11.2 J	7.9 J	8.9 J
Zinc	20 or SB	31.5	23.7	21.4	22.9
Total Cyanide (mg/kg) by EPA 9012					
Cyanide, Total	NE	0.604 U	0.599 U	0.639 U	0.628 U
Other (%)					
Total Organic Carbon	NE	NA	NA	NA	NA

Notes:

Only detected analytes are shown on the table.

NE - not established

NA - not analyzed

ND - not detected

J - estimated value

U - not detected at or above the reporting limit shown

UJ - not detected; reporting limit shown is estimated

dup - indicates duplicate sample

D - result concentration was obtained from a diluted sample

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

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

SB- site background

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-01 12/9/2003	MW-01 11/16/2005	MW-01 dup 11/16/2005	MW-02 12/9/2003
BTEX (ug/L)					
Benzene	1	10 U	5 U	5 U	10 U
Toluene	5	10 U	5 U	5 U	10 U
Ethylbenzene	5	10 U	5 U	5 U	10 U
Xylene, Total	NE	10 U	5 U	5 U	10 U
Total BTEX	NE	ND	ND	ND	ND
Other VOCs (ug/L)					
Acetone	50*	10 U	NA	NA	10 U
Bromodichloromethane	50*	10 U	NA	NA	10 U
Bromoform	NE	10 U	NA	NA	10 U
Bromomethane	5	10 U	NA	NA	10 U
Butanone,2- (MEK)	50*	10 U	NA	NA	10 U
Carbon disulfide	NE	10 U	NA	NA	10 U
Carbon tetrachloride	5	10 U	NA	NA	10 U
Chlorobenzene	5	10 U	NA	NA	10 U
Chloroethane	5	10 U	NA	NA	10 U
Chloroform	7	6 J	NA	NA	30
Chloromethane	5	10 U	NA	NA	10 U
Cyclohexane	NE	10 U	NA	NA	10 U
Dibromo-3-chloropropane,1,2-	NE	R	NA	NA	R
Dibromochloromethane	50*	10 U	NA	NA	10 U
Dibromoethane,1,2-	NE	10 U	NA	NA	10 U
Dichlorobenzene,1,2-	3	10 U	NA	NA	10 U
Dichlorobenzene,1,3-	3	10 U	NA	NA	10 U
Dichlorobenzene,1,4-	3	10 U	NA	NA	10 U
Dichlorodifluoromethane	NE	10 U	NA	NA	10 U
Dichloroethane,1,1-	5	10 U	NA	NA	10 U
Dichloroethane,1,2-	0.6	10 U	NA	NA	10 U
Dichloroethene, cis-1,2-	5	10 U	NA	NA	10 U
Dichloroethene,1,1-	5	10 U	NA	NA	10 U
Dichloropropane,1,2-	1	10 U	NA	NA	10 U
Dichloropropene, cis-1,3	NE	10 U	NA	NA	10 U
Dichloropropene, trans-1,3	NE	10 U	NA	NA	10 U
Hexanone,2-	NE	10 U	NA	NA	10 U
Isopropyl benzene	5	10 U	NA	NA	10 U
Methyl Acetate	NE	10 UJ	NA	NA	10 UJ
Methyl tert-butyl ether	NE	10 U	NA	NA	10 U
Methyl-2-pentanone,4-	NE	10 U	NA	NA	10 U
Methylcyclohexane	NE	10 U	NA	NA	10 U
Methylene chloride	5	10 UJ	NA	NA	10 UJ
Styrene	5	10 U	NA	NA	10 U
Tetrachloroethane,1,1,2,2-	5	10 U	NA	NA	10 U
Tetrachloroethene	5	10 U	NA	NA	10 U
Trans-1,2-Dichloroethene	5	10 U	NA	NA	10 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	NA	NA	10 U

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-01 12/9/2003	MW-01 11/16/2005	MW-01 dup 11/16/2005	MW-02 12/9/2003
Trichlorobenzene,1,2,4-	5	10 U	NA	NA	10 U
Trichloroethane,1,1,1-	5	10 U	NA	NA	10 U
Trichloroethane,1,1,2-	1	10 U	NA	NA	10 U
Trichloroethene	5	10 U	NA	NA	10 U
Trichlorofluoromethane	NE	10 U	NA	NA	10 U
Vinyl chloride	2	10 U	NA	NA	10 U
Noncarcinogenic PAHs (ug/L)					
Acenaphthene	20*	10 U	11 U	10 U	10 U
Acenaphthylene	NE	10 U	11 U	10 U	10 U
Anthracene	50*	10 U	11 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	11 U	10 U	10 U
Fluoranthene	50*	10 U	11 U	10 U	10 U
Fluorene	50*	10 U	11 U	10 U	10 U
Methylnaphthalene,2-	NE	10 U	11 U	10 U	10 U
Naphthalene	10*	10 U	11 U	10 U	10 U
Phenanthrene	50*	10 U	11 U	10 U	10 U
Pyrene	50*	10 U	11 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)					
Benz[a]anthracene	0.002*	10 U	11 U	10 U	10 U
Benzo[a]pyrene	NE	10 U	11 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 UJ	11 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	11 U	10 U	10 U
Chrysene	0.002*	10 U	11 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	11 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	11 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
Total PAHs (ug/L)					
Total PAHs	NE	ND	ND	ND	ND
Other SVOCs (ug/L)					
Acetophenone	NE	10 U	NA	NA	10 U
Atrazine	NE	10 U	NA	NA	10 UJ
Benzaldehyde	NE	10 U	NA	NA	10 U
Benzyl alcohol	NE	NA	NA	NA	NA
Biphenyl,1,1-	NE	10 U	NA	NA	10 U
Bis(2-chloroethoxy)methane	NE	10 U	NA	NA	10 U
Bis(2-chloroethyl)ether	1	10 U	NA	NA	10 U
Bis(2-ethylhexyl)phthalate	5	10 U	NA	NA	10 U
Bis(chloroisopropyl)ether	NE	10 U	NA	NA	10 U
Bromophenyl phenyl ether,4-	NE	10 U	NA	NA	10 U
Butyl benzyl phthalate	50*	10 U	NA	NA	10 U
Caprolactam	NE	10 U	NA	NA	10 U
Carbazole	NE	10 U	NA	NA	10 U
Chloro-3-methylphenol,4-	NE	10 U	NA	NA	10 U
Chloroaniline,4-	5	10 U	NA	NA	10 U

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-01 12/9/2003	MW-01 11/16/2005	MW-01 dup 11/16/2005	MW-02 12/9/2003
Chloronaphthalene,2-	NE	10 U	NA	NA	10 U
Chlorophenol,2-	NE	10 UJ	NA	NA	10 UJ
Chlorophenyl phenyl ether,4-	NE	10 U	NA	NA	10 U
Dibenzofuran	NE	10 U	NA	NA	10 U
Dichlorobenzene,1,2-	3	NA	NA	NA	NA
Dichlorobenzene,1,3-	3	NA	NA	NA	NA
Dichlorobenzene,1,4-	3	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	10 U	NA	NA	10 U
Dichlorophenol,2,4-	5	10 U	NA	NA	10 U
Diethyl phthalate	50*	10 U	NA	NA	10 U
Dimethyl phthalate	50*	10 U	NA	NA	10 U
Dimethylphenol, 2,4-	50*	10 UJ	NA	NA	10 U
Di-n-butyl phthalate	50	10 U	NA	NA	10 U
Dinitro-2-methylphenol,4,6-	NE	25 U	NA	NA	24 U
Dinitrophenol,2,4-	10*	25 UJ	NA	NA	24 UJ
Dinitrotoluene,2,4-	NE	10 U	NA	NA	10 U
Dinitrotoluene,2,6-	5	10 U	NA	NA	10 U
Di-n-octyl phthalate	50*	10 UJ	NA	NA	10 U
Hexachlorobenzene	0.04	10 U	NA	NA	10 U
Hexachlorobutadiene	0.5	10 UJ	NA	NA	10 U
Hexachlorocyclopentadiene	NE	24 UJ	NA	NA	23 U
Hexachloroethane	NE	10 U	NA	NA	10 U
Isophorone	50*	10 U	NA	NA	10 U
Methylphenol, 4-	NE	10 U	NA	NA	10 U
Methylphenol,2-	NE	10 U	NA	NA	10 U
Nitroaniline,2-	5	25 U	NA	NA	24 U
Nitroaniline,3-	5	25 U	NA	NA	24 U
Nitroaniline,4-	NE	25 U	NA	NA	24 U
Nitrobenzene	0.4	10 U	NA	NA	10 U
Nitrophenol,2-	NE	10 U	NA	NA	10 U
Nitrophenol,4-	NE	25 UJ	NA	NA	24 UJ
N-Nitrosodi-n-propylamine	NE	10 U	NA	NA	10 U
N-Nitrosodiphenylamine	NE	10 U	NA	NA	10 U
Pentachlorophenol	NE	25 UJ	NA	NA	24 U
Phenol	NE	10 UJ	NA	NA	10 UJ
Trichlorobenzene,1,2,4-	5	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	10 U	NA	NA	10 U
Trichlorophenol,2,4,6-	NE	10 U	NA	NA	10 U
Metals (ug/L)					
Aluminum	NE	55.6 U	500 U	500 U	291 U
Antimony	3	3.9 U	20 U	20 U	3.9 U
Arsenic	25	3.4 UJ	40 U	40 U	3.4 UJ
Barium	1000	55.6	35.2 J	35.9 J	46.0
Beryllium	3*	0.10 U	5 U	5 U	0.10 U
Cadmium	5	0.20 U	10 U	10 U	0.20 U

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-01 12/9/2003	MW-01 11/16/2005	MW-01 dup 11/16/2005	MW-02 12/9/2003
Calcium	NE	129000	118000	120000	114000
Chromium	50	0.60 U	10 U	10 U	0.77 U
Cobalt	NE	0.70 U	2.6 J	10 U	0.71 U
Copper	200	0.80 U	10 U	10 U	1.5 U
Iron	300	71.0 UJ	200 U	200 U	413 J
Lead	25	1.9 U	10 U	10 U	1.9 U
Magnesium	35000*	12500	11200	11400	11800
Manganese	300	76.2	15 U	15 U	37.6
Mercury	0.7	0.037 UJ	0.2 U	0.2 U	0.260 UJ
Nickel	100	0.90 U	10 U	10 U	0.90 U
Potassium	NE	2830 J	2770 J	2770 J	3250 J
Selenium	10	4.1 U	30 U	30 U	4.1 U
Silver	50	0.60 U	1.2 J	6 U	0.60 U
Sodium	20000	136000	94600 J	96700 J	61300
Thallium	0.5*	4.0 U	40 U	40 U	4.0 U
Vanadium	NE	0.60 U	6 U	6 U	0.83 U
Zinc	2000*	1.3 U	50 U	50 U	2.6 U
Total Cyanide (ug/L)					
Cyanide, Total	200	NA	10 U	10 U	NA

Notes:

NE - not established

NA - not analyzed

ND - not detected

J - estimated value

U - indicates not detected at or above the reporting limit shown

UJ - not detected; reporting limit shown is estimated

dup - indicates duplicate sample

Shading indicates an exceedance of established New York State Ambient Groundwater Quality Standards

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

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-02 11/17/2005	MW-03 12/9/2003	MW-03 dup 12/9/2003	MW-03 11/17/2005
BTEX (ug/L)					
Benzene	1	5 U	10 U	10 U	5 U
Toluene	5	5 U	10 U	10 U	5 U
Ethylbenzene	5	5 U	10 U	10 U	5 U
Xylene, Total	NE	5 U	10 U	10 U	5 U
Total BTEX	NE	ND	ND	ND	ND
Other VOCs (ug/L)					
Acetone	50*	NA	10 U	10 U	NA
Bromodichloromethane	50*	NA	10 U	10 U	NA
Bromoform	NE	NA	10 U	10 U	NA
Bromomethane	5	NA	10 U	10 U	NA
Butanone,2- (MEK)	50*	NA	10 U	10 U	NA
Carbon disulfide	NE	NA	10 U	10 U	NA
Carbon tetrachloride	5	NA	10 U	10 U	NA
Chlorobenzene	5	NA	10 U	10 U	NA
Chloroethane	5	NA	10 U	10 U	NA
Chloroform	7	NA	10 U	10 U	NA
Chloromethane	5	NA	10 U	10 U	NA
Cyclohexane	NE	NA	10 U	10 U	NA
Dibromo-3-chloropropane,1,2-	NE	NA	R	100 UR	NA
Dibromochloromethane	50*	NA	10 U	10 U	NA
Dibromoethane,1,2-	NE	NA	10 U	10 U	NA
Dichlorobenzene,1,2-	3	NA	10 U	10 U	NA
Dichlorobenzene,1,3-	3	NA	10 U	10 U	NA
Dichlorobenzene,1,4-	3	NA	10 U	10 U	NA
Dichlorodifluoromethane	NE	NA	10 U	10 U	NA
Dichloroethane,1,1-	5	NA	10 U	10 U	NA
Dichloroethane,1,2-	0.6	NA	10 U	10 U	NA
Dichloroethene, cis-1,2-	5	NA	10 U	10 U	NA
Dichloroethene,1,1-	5	NA	10 U	10 U	NA
Dichloropropane,1,2-	1	NA	10 U	10 U	NA
Dichloropropene, cis-1,3	NE	NA	10 U	10 U	NA
Dichloropropene, trans-1,3	NE	NA	10 U	10 U	NA
Hexanone,2-	NE	NA	10 U	10 U	NA
Isopropyl benzene	5	NA	10 U	10 U	NA
Methyl Acetate	NE	NA	10 UJ	10 UJ	NA
Methyl tert-butyl ether	NE	NA	10 U	10 U	NA
Methyl-2-pentanone,4-	NE	NA	10 U	10 U	NA
Methylcyclohexane	NE	NA	10 U	10 U	NA
Methylene chloride	5	NA	10 UJ	10 UJ	NA
Styrene	5	NA	10 U	10 U	NA
Tetrachloroethane,1,1,2,2-	5	NA	10 U	10 U	NA
Tetrachloroethene	5	NA	10 U	10 U	NA
Trans-1,2-Dichloroethene	5	NA	10 U	10 U	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	NA	10 U	10 U	NA

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-02 11/17/2005	MW-03 12/9/2003	MW-03 dup 12/9/2003	MW-03 11/17/2005
Trichlorobenzene,1,2,4-	5	NA	10 U	10 U	NA
Trichloroethane,1,1,1-	5	NA	10 U	10 U	NA
Trichloroethane,1,1,2-	1	NA	10 U	10 U	NA
Trichloroethene	5	NA	10 U	10 U	NA
Trichlorofluoromethane	NE	NA	10 U	10 U	NA
Vinyl chloride	2	NA	10 U	10 U	NA
Noncarcinogenic PAHs (ug/L)					
Acenaphthene	20*	10 U	10 U	10 U	11 U
Acenaphthylene	NE	10 U	10 U	10 U	11 U
Anthracene	50*	10 U	10 U	10 U	11 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	11 U
Fluoranthene	50*	10 U	10 U	10 U	11 U
Fluorene	50*	10 U	10 U	10 U	11 U
Methylnaphthalene,2-	NE	10 U	10 U	10 U	11 U
Naphthalene	10*	10 U	10 U	10 U	11 U
Phenanthrene	50*	10 U	10 U	10 U	11 U
Pyrene	50*	10 U	10 U	10 U	11 U
Total Noncarcinogenic PAHs	NE	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)					
Benz[a]anthracene	0.002*	10 U	10 U	10 U	11 U
Benzo[a]pyrene	NE	10 U	10 U	10 U	11 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	11 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	11 U
Chrysene	0.002*	10 U	10 U	10 U	11 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	11 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	11 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
Total PAHs (ug/L)					
Total PAHs	NE	ND	ND	ND	ND
Other SVOCs (ug/L)					
Acetophenone	NE	NA	10 U	10 U	NA
Atrazine	NE	NA	10 UJ	10 UJ	NA
Benzaldehyde	NE	NA	10 U	10 U	NA
Benzyl alcohol	NE	NA	NA	NA	NA
Biphenyl,1,1-	NE	NA	10 U	10 U	NA
Bis(2-chloroethoxy)methane	NE	NA	10 U	10 U	NA
Bis(2-chloroethyl)ether	1	NA	10 U	10 U	NA
Bis(2-ethylhexyl)phthalate	5	NA	10 U	10 U	NA
Bis(chloroisopropyl)ether	NE	NA	10 U	10 U	NA
Bromophenyl phenyl ether,4-	NE	NA	10 U	10 U	NA
Butyl benzyl phthalate	50*	NA	10 U	10 U	NA
Caprolactam	NE	NA	10 U	10 U	NA
Carbazole	NE	NA	10 U	10 U	NA
Chloro-3-methylphenol,4-	NE	NA	10 U	10 U	NA
Chloroaniline,4-	5	NA	10 U	10 U	NA

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-02 11/17/2005	MW-03 12/9/2003	MW-03 dup 12/9/2003	MW-03 11/17/2005
Chloronaphthalene,2-	NE	NA	10 U	10 U	NA
Chlorophenol,2-	NE	NA	10 UJ	10 UJ	NA
Chlorophenyl phenyl ether,4-	NE	NA	10 U	10 U	NA
Dibenzofuran	NE	NA	10 U	10 U	NA
Dichlorobenzene,1,2-	3	NA	NA	NA	NA
Dichlorobenzene,1,3-	3	NA	NA	NA	NA
Dichlorobenzene,1,4-	3	NA	NA	NA	NA
Dichlorobenzidine,3,3-	NE	NA	10 U	10 U	NA
Dichlorophenol,2,4-	5	NA	10 U	10 U	NA
Diethyl phthalate	50*	NA	10 U	10 U	NA
Dimethyl phthalate	50*	NA	10 U	10 U	NA
Dimethylphenol, 2,4-	50*	NA	10 U	10 U	NA
Di-n-butyl phthalate	50	NA	10 U	10 U	NA
Dinitro-2-methylphenol,4,6-	NE	NA	24 U	24 U	NA
Dinitrophenol,2,4-	10*	NA	24 UJ	24 UJ	NA
Dinitrotoluene,2,4-	NE	NA	10 U	10 U	NA
Dinitrotoluene,2,6-	5	NA	10 U	10 U	NA
Di-n-octyl phthalate	50*	NA	10 U	10 U	NA
Hexachlorobenzene	0.04	NA	10 U	10 U	NA
Hexachlorobutadiene	0.5	NA	10 U	10 U	NA
Hexachlorocyclopentadiene	NE	NA	23 U	22 U	NA
Hexachloroethane	NE	NA	10 U	10 U	NA
Isophorone	50*	NA	10 U	10 U	NA
Methylphenol, 4-	NE	NA	10 U	10 U	NA
Methylphenol,2-	NE	NA	10 U	10 U	NA
Nitroaniline,2-	5	NA	24 U	24 U	NA
Nitroaniline,3-	5	NA	24 U	24 U	NA
Nitroaniline,4-	NE	NA	24 U	24 U	NA
Nitrobenzene	0.4	NA	10 U	10 U	NA
Nitrophenol,2-	NE	NA	10 U	10 U	NA
Nitrophenol,4-	NE	NA	24 UJ	24 UJ	NA
N-Nitrosodi-n-propylamine	NE	NA	10 U	10 U	NA
N-Nitrosodiphenylamine	NE	NA	10 U	10 U	NA
Pentachlorophenol	NE	NA	24 U	24 U	NA
Phenol	NE	NA	10 UJ	10 UJ	NA
Trichlorobenzene,1,2,4-	5	NA	NA	NA	NA
Trichlorophenol,2,4,5-	NE	NA	10 U	10 U	NA
Trichlorophenol,2,4,6-	NE	NA	10 U	10 U	NA
Metals (ug/L)					
Aluminum	NE	500 U	23.0 U	42.0 U	500 U
Antimony	3	20 U	3.9 U	3.9 U	20 U
Arsenic	25	40 U	3.4 UJ	3.4 UJ	40 U
Barium	1000	50.1 J	42.9	44.8	39.5 J
Beryllium	3*	5 U	0.10 U	0.10 U	5 U
Cadmium	5	10 U	0.20 U	0.20 U	10 U

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	MW-02 11/17/2005	MW-03 12/9/2003	MW-03 dup 12/9/2003	MW-03 11/17/2005
Calcium	NE	108000	105000	106000	112000
Chromium	50	10 U	0.62 U	0.60 U	10 U
Cobalt	NE	10 U	0.70 U	0.70 U	10 U
Copper	200	10 U	0.80 U	0.80 U	6.7 J
Iron	300	200 U	24.3 UJ	52.0 UJ	200 U
Lead	25	10 U	1.9 U	1.9 U	10 U
Magnesium	35000*	10800	13400	13400	13600
Manganese	300	15 U	15.5	16.2	33.8
Mercury	0.7	0.2 U	0.037 UJ	0.037 UJ	0.2 U
Nickel	100	10 U	0.90 U	0.90 U	10 U
Potassium	NE	4610 J	4620 J	4650 J	3800 J
Selenium	10	30 U	5.0 U	4.1 U	30 U
Silver	50	6 U	0.60 U	0.60 U	6 U
Sodium	20000	45600 J	80200	79900	75500 J
Thallium	0.5*	40 U	4.0 U	4.0 U	40 U
Vanadium	NE	6 U	0.63 U	0.60 U	6 U
Zinc	2000*	50 U	1.3 U	1.4 U	50 U
Total Cyanide (ug/L)					
Cyanide, Total	200	10 U	NA	NA	10 U

Notes:

NE - not established

NA - not analyzed

ND - not detected

J - estimated value

U - indicates not detected at or above the reporting limit show

UJ - not detected; reporting limit shown is estimated

dup - indicates duplicate sample

Shading indicates an exceedance of established New York S

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

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	B-01 (offsite) 11/17/2005	B-02 (offsite) 11/17/2005	B-03 (offsite) 11/17/2005
BTEX (ug/L)				
Benzene	1	NA	NA	NA
Toluene	5	NA	NA	NA
Ethylbenzene	5	NA	NA	NA
Xylene, Total	NE	NA	NA	NA
Total BTEX	NE	NA	NA	NA
Other VOCs (ug/L)				
Acetone	50*	NA	NA	NA
Bromodichloromethane	50*	NA	NA	NA
Bromoform	NE	NA	NA	NA
Bromomethane	5	NA	NA	NA
Butanone,2- (MEK)	50*	NA	NA	NA
Carbon disulfide	NE	NA	NA	NA
Carbon tetrachloride	5	NA	NA	NA
Chlorobenzene	5	NA	NA	NA
Chloroethane	5	NA	NA	NA
Chloroform	7	NA	NA	NA
Chloromethane	5	NA	NA	NA
Cyclohexane	NE	NA	NA	NA
Dibromo-3-chloropropane,1,2-	NE	NA	NA	NA
Dibromochloromethane	50*	NA	NA	NA
Dibromoethane,1,2-	NE	NA	NA	NA
Dichlorobenzene,1,2-	3	NA	NA	NA
Dichlorobenzene,1,3-	3	NA	NA	NA
Dichlorobenzene,1,4-	3	NA	NA	NA
Dichlorodifluoromethane	NE	NA	NA	NA
Dichloroethane,1,1-	5	NA	NA	NA
Dichloroethane,1,2-	0.6	NA	NA	NA
Dichloroethene, cis-1,2-	5	NA	NA	NA
Dichloroethene,1,1-	5	NA	NA	NA
Dichloropropane,1,2-	1	NA	NA	NA
Dichloropropene, cis-1,3	NE	NA	NA	NA
Dichloropropene, trans-1,3	NE	NA	NA	NA
Hexanone,2-	NE	NA	NA	NA
Isopropyl benzene	5	NA	NA	NA
Methyl Acetate	NE	NA	NA	NA
Methyl tert-butyl ether	NE	NA	NA	NA
Methyl-2-pentanone,4-	NE	NA	NA	NA
Methylcyclohexane	NE	NA	NA	NA
Methylene chloride	5	NA	NA	NA
Styrene	5	NA	NA	NA
Tetrachloroethane,1,1,2,2-	5	NA	NA	NA
Tetrachloroethene	5	NA	NA	NA
Trans-1,2-Dichloroethene	5	NA	NA	NA
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	NA	NA	NA

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	B-01 (offsite) 11/17/2005	B-02 (offsite) 11/17/2005	B-03 (offsite) 11/17/2005
Trichlorobenzene,1,2,4-	5	NA	NA	NA
Trichloroethane,1,1,1-	5	NA	NA	NA
Trichloroethane,1,1,2-	1	NA	NA	NA
Trichloroethene	5	NA	NA	NA
Trichlorofluoromethane	NE	NA	NA	NA
Vinyl chloride	2	NA	NA	NA
Noncarcinogenic PAHs (ug/L)				
Acenaphthene	20*	11 U	11 U	11 U
Acenaphthylene	NE	11 U	11 U	11 U
Anthracene	50*	11 U	11 U	11 U
Benzo[g,h,i]perylene	NE	11 U	11 U	11 U
Fluoranthene	50*	11 U	11 U	11 U
Fluorene	50*	11 U	11 U	11 U
Methylnaphthalene,2-	NE	11 U	11 U	11 U
Naphthalene	10*	11 U	11 U	11 U
Phenanthrene	50*	11 U	11 U	11 U
Pyrene	50*	11 U	11 U	11 U
Total Noncarcinogenic PAHs	NE	ND	ND	ND
Carcinogenic PAHs (ug/L)				
Benz[a]anthracene	0.002*	11 U	11 U	11 U
Benzo[a]pyrene	NE	11 U	11 U	11 U
Benzo[b]fluoranthene	0.002*	11 U	11 U	11 U
Benzo[k]fluoranthene	0.002*	11 U	11 U	11 U
Chrysene	0.002*	11 U	11 U	11 U
Dibenz[a,h]anthracene	NE	11 U	11 U	11 U
Indeno[1,2,3-cd]pyrene	0.002*	11 U	11 U	11 U
Total Carcinogenic PAHs	NE	ND	ND	ND
Total PAHs (ug/L)				
Total PAHs	NE	ND	ND	ND
Other SVOCs (ug/L)				
Acetophenone	NE	NA	NA	NA
Atrazine	NE	NA	NA	NA
Benzaldehyde	NE	NA	NA	NA
Benzyl alcohol	NE	11 U	11 U	11 U
Biphenyl,1,1-	NE	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	11 U	11 U	11 U
Bis(2-chloroethyl)ether	1	11 U	11 U	11 U
Bis(2-ethylhexyl)phthalate	5	11 U	11 U	11 U
Bis(chloroisopropyl)ether	NE	11 U	11 U	11 U
Bromophenyl phenyl ether,4-	NE	11 U	11 U	11 U
Butyl benzyl phthalate	50*	11 U	11 U	11 U
Caprolactam	NE	NA	NA	NA
Carbazole	NE	11 U	11 U	11 U
Chloro-3-methylphenol,4-	NE	11 U	11 U	11 U
Chloroaniline,4-	5	11 U	11 U	11 U

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	B-01 (offsite) 11/17/2005	B-02 (offsite) 11/17/2005	B-03 (offsite) 11/17/2005
Chloronaphthalene,2-	NE	11 U	11 U	11 U
Chlorophenol,2-	NE	11 U	11 U	11 U
Chlorophenyl phenyl ether,4-	NE	11 U	11 U	11 U
Dibenzofuran	NE	11 U	11 U	11 U
Dichlorobenzene,1,2-	3	11 U	11 U	11 U
Dichlorobenzene,1,3-	3	11 U	11 U	11 U
Dichlorobenzene,1,4-	3	11 U	11 U	11 U
Dichlorobenzidine,3,3-	NE	22 U	22 U	22 U
Dichlorophenol,2,4-	5	11 U	11 U	11 U
Diethyl phthalate	50*	11 U	11 U	11 U
Dimethyl phthalate	50*	11 U	11 U	11 U
Dimethylphenol, 2,4-	50*	11 U	11 U	11 U
Di-n-butyl phthalate	50	11 U	11 U	11 U
Dinitro-2-methylphenol,4,6-	NE	54 U	54 U	54 U
Dinitrophenol,2,4-	10*	54 U	54 U	54 U
Dinitrotoluene,2,4-	NE	11 U	11 U	11 U
Dinitrotoluene,2,6-	5	11 U	11 U	11 U
Di-n-octyl phthalate	50*	11 U	11 U	11 U
Hexachlorobenzene	0.04	11 U	11 U	11 U
Hexachlorobutadiene	0.5	11 U	11 U	11 U
Hexachlorocyclopentadiene	NE	11 U	11 U	11 U
Hexachloroethane	NE	11 U	11 U	11 U
Isophorone	50*	11 U	11 U	11 U
Methylphenol, 4-	NE	11 U	11 U	11 U
Methylphenol,2-	NE	11 U	11 U	11 U
Nitroaniline,2-	5	54 U	54 U	54 U
Nitroaniline,3-	5	54 U	54 U	54 U
Nitroaniline,4-	NE	22 U	22 U	22 U
Nitrobenzene	0.4	11 U	11 U	11 U
Nitrophenol,2-	NE	11 U	11 U	11 U
Nitrophenol,4-	NE	54 U	54 U	54 U
N-Nitrosodi-n-propylamine	NE	11 U	11 U	11 U
N-Nitrosodiphenylamine	NE	11 U	11 U	11 U
Pentachlorophenol	NE	54 U	54 U	54 U
Phenol	NE	11 U	11 U	11 U
Trichlorobenzene,1,2,4-	5	11 U	11 U	11 U
Trichlorophenol,2,4,5-	NE	54 U	54 U	54 U
Trichlorophenol,2,4,6-	NE	11 U	11 U	11 U
Metals (ug/L)				
Aluminum	NE	NA	NA	NA
Antimony	3	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Beryllium	3*	NA	NA	NA
Cadmium	5	NA	NA	NA

Table 2
Groundwater Analytical Results
Saratoga Springs Non-Owned (Lake Ave.) MGP site
Saratoga Springs, NY

	NYS Ambient Water Quality Standards	B-01 (offsite) 11/17/2005	B-02 (offsite) 11/17/2005	B-03 (offsite) 11/17/2005
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Mercury	0.7	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
Total Cyanide (ug/L)				
Cyanide, Total	200	NA	NA	NA

Notes:

NE - not established

NA - not analyzed

ND - not detected

J - estimated value

U - indicates not detected at or above the reporting limit shown

UJ - not detected; reporting limit shown is estimated

dup - indicates duplicate sample

Shading indicates an exceedance of established New York S

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

GP-21(14-15)	1:400
GP-22(6.5-7.5)	1:20
GP-23(10-11)	1:20
GP-24(11-12)	1:2
GP-DUP(1-2)	1:20

Sample Calculation:

Sample ID – GP-21(14-15)
Compound - Naphthalene

$$\frac{(1783066 \text{Area})(20 \text{ng})(2000 \text{ul})(400)}{(499242 \text{Area})(1.034 \text{Area/ng})(1 \text{ul})(15.3 \text{g})(0.835)} = 4325914 = 4300000 \text{ug/Kg}$$

Petroleum Hydrocarbon Scan - The extract was injected into a Gas Chromatograph equipped with a capillary column and Flame Ionization Detector. Elution patterns were compared with those of gasoline, kerosene, #2 fuel oil, #4 fuel oil, #6 fuel oil, Motor Oil, and Coal Tar.

Sample GP-21 (14-15) was a good match for Coal Tar.

Volatile Organics – Volatile organics were determined by purge and trap GC/MS using guidance provided in Method 5030B/8260B.

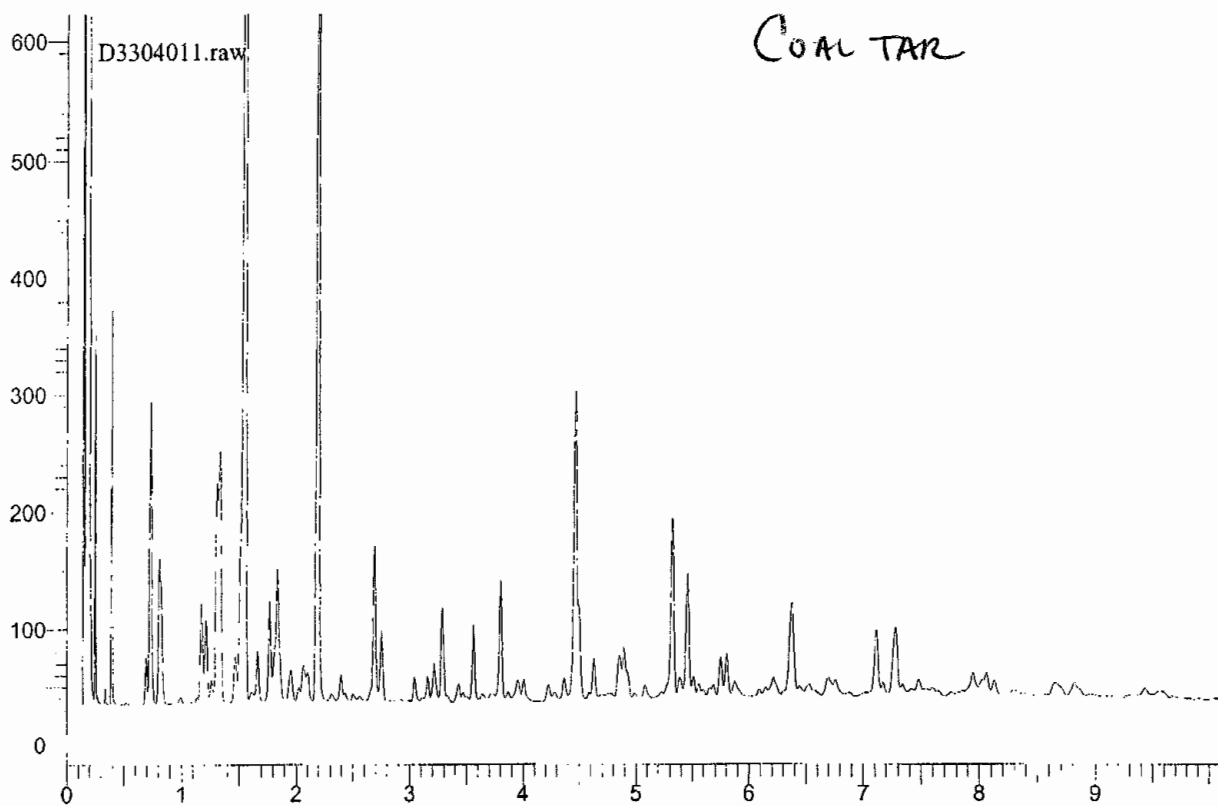
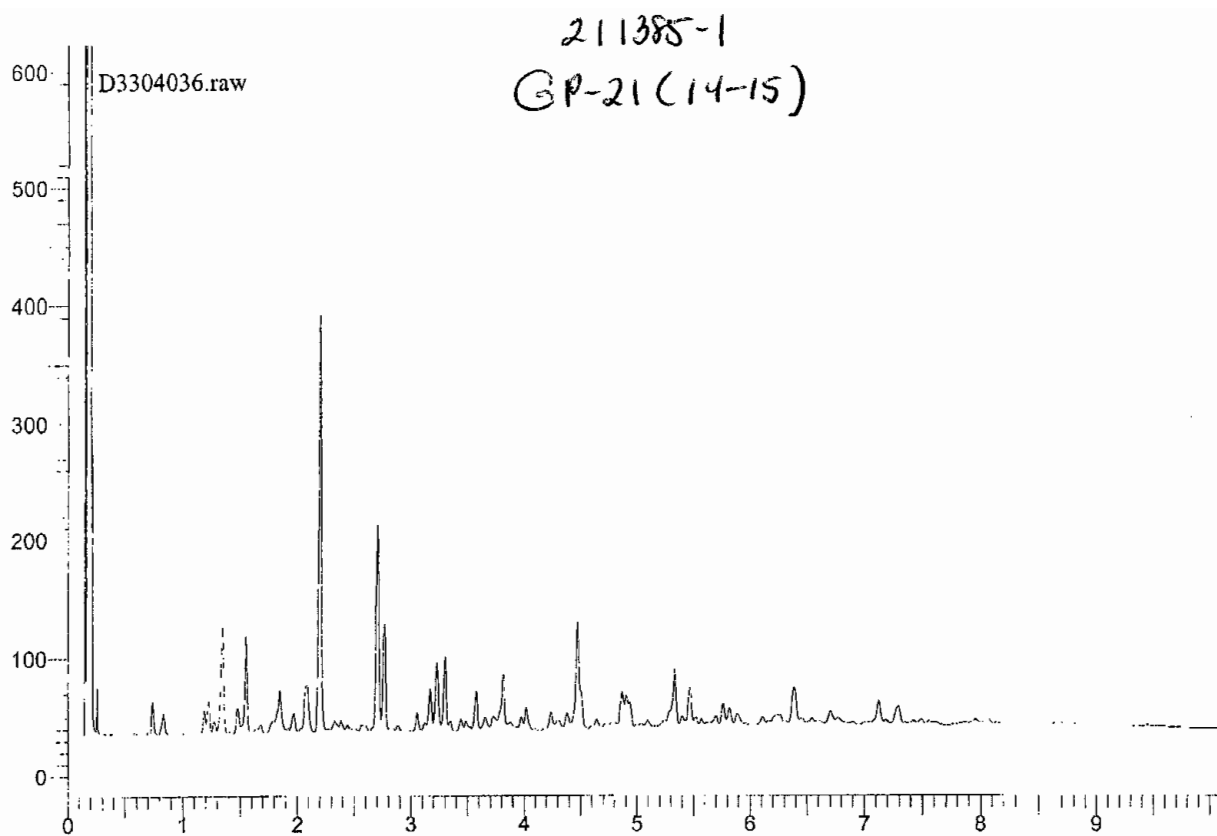
The spike compound percent recoveries were within the laboratory generated guidelines in the independent source quality control samples except for toluene in 58321-2LCS.

The following samples were analyzed as medium level soils for high targets:

Sample ID	Dilution
GP-21(14-15)	1:50
GP-22(6.5-7.5)	1:10
GP-23(10-11)	1:2

The following samples were analyzed at dilutions as low level soils for high targets:

Sample ID	Dilution
GP-24(11-12)	1:4
GP-DUP(1-2)	1:2



Data Usability Summary Report

Project: Saratoga Springs, Saratoga Springs, NY
Laboratory: Severn Trent Laboratories, Shelton, CT
Report No.: 211385
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 3, 2006

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
GP-21 (14-15)	211385-01	BTEX, PAH, DRO
GP-25 (21-22.5)	211385-02	BTEX, PAH
GP-26 (17-18)	211385-03	BTEX, PAH
GP-22 (6.5-7.5)	211385-04	BTEX, PAH
GP-23 (10-11)	211385-05	BTEX, PAH
GP-24 (11-12)	211385-06	BTEX, PAH
GP-DUP1 (1-2)	211385-07	BTEX, PAH
FB111605	211385-08	BTEX, PAH
TB111605	211385-09	BTEX

Associated QC Samples: Field/Trip Blanks: FB111605, TB111605
Field Duplicate pair: GP-23 (10-11)/GP-DUP1 (1-2)

The above listed samples were collected on November 15 and 16, 2005 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260B, polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270C, and diesel range organics (DRO) by SW-846 method 8015B. The data validation was based on the *USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data Acquired using SW-846 Method 8260B*, SOP No. HW-24, Revision 1, June 1999 and *USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data Acquired using SW-846 Method 8270C*, SOP No. HW-22, Revision 2, June 2001.

The organic data were evaluated based on the following parameters:

- * • Data Completeness
- * • Holding Times and Sample Preservation
- * • Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks

Saratoga Springs, Project 034400-1006

- * • Surrogate Recoveries
- * • Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- * • Internal Standards
- * • Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- * • Moisture Content
- Quantitation Limits and Data Assessment
- * • Sample Quantitation and Compound Identification
- * - All criteria were met.

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive and nondetect results for benzene, toluene, xylene, and ethylbenzene in samples GP-23 (10-11) and GP-DUP1 (1-2) were qualified as estimated (J/UJ) due to high relative percent differences (RPDs) in the evaluation of the field duplicate pair. The direction of the bias cannot be determined from this nonconformance. The results can be used for project objectives as estimated values and nondetects with estimated quantitation limit. This qualification may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC and SVOC results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J) in the associated samples by the laboratory. These results can be used for project objectives as estimated values which may have a minor impact on the data usability.
- The positive results for pyrene, indeno(123-cd)pyrene, and benzo(ghi)perylene in samples GP-21 (14-15), GP-22 (6.5-7.5), GP-23 (10-11), GP-24 (11-12), and GP-DUP1 (1-2) and dibenzo(ah)anthracene in samples GP-22 (6.5-7.5), GP-23 (10-11), GP-24 (11-12), and GP-DUP1 (1-2) were qualified as estimated (J) due to initial calibration nonconformances. The direction of the bias cannot be determined from this nonconformance. The results can be used for project objectives as estimated values. This qualification may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category

B deliverables for the VOC and SVOC analyses.

Holding Times and Sample Preservation

All criteria were met in the VOC and SVOC analyses.

GC/MS Tunes

All criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

All criteria were met in the VOC analyses.

Compounds that did not meet criteria in the SVOC initial calibrations are summarized in the following tables.

Instrument ID MSU Compound	IC 11/18/05
indeno(123-cd)pyrene	X (28.1%)
dibenzo(ah)anthracene	X (26.8%)
benzo(ghi)perylene	X (28.7%)
Samples Affected	FB111605

Instrument ID MSU Compound	IC 11/23/05
pyrene	X (15.4%)
indeno(123-cd)pyrene	X (16.6%)
dibenzo(ah)anthracene	X (16.6%)
benzo(ghi)perylene	X (18.5%)
Samples Affected	GP-21 (14-15), GP-25 (21-22.5), GP-26 (17-18), GP-22 (6.5-7.5), GP-23 (10-11), GP-24 (11-12), GP-DUP1 (1-2)

X = Initial calibration (IC) relative standard deviation (%RSD) > 15; estimate (J) positive and (UJ) blank-qualified nondetect results.

Saratoga Springs, Project 034400-1006

XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

The positive results for pyrene, indeno(123-cd)pyrene, and benzo(ghi)perylene in samples GP-21 (14-15), GP-22 (6.5-7.5), GP-23 (10-11), GP-24 (11-12), and GP-DUP1 (1-2) and dibenzo(ah)anthracene in samples GP-22 (6.5-7.5), GP-23 (10-11), GP-24 (11-12), and GP-DUP1 (1-2) were estimated (J) due to initial calibration nonconformances. Validation actions were not required for the remaining samples due to initial calibration nonconformances as the results were nondetect.

Blanks

Target compounds were not detected in the VOC method, field, and trip blank samples. Target compounds were not detected in the SVOC method blank samples. The following table summarizes the SVOC field blank contamination detected.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Blank Action Level
Phenanthrene	FB111605	All samples	0.90 ug/L	4.5 ug/L

Blank Actions

If the sample concentration $\leq$ QL and $\leq$ blank action level, qualify the result as not detected (U) at the QL.
If the sample concentration > QL and $\leq$ blank action level, qualify the result as not detected (U) at the reported value.
If the sample concentration > blank action level, report the value unqualified.

Based on the action level determined, blank qualifications were not required.

Surrogate Recoveries

All criteria were met in the VOC and SVOC analyses for samples analyzed without dilution.

MS/MSD Results

MS/MSD analyses were performed on sample GP-25 (21-22.5) for the VOC and SVOC analyses. All criteria were met.

Internal Standards

All criteria were met in the VOC and SVOC analyses

LCS Results

All criteria were met in the VOC and SVOC analyses.

Field Duplicate Results

Samples GP-23 (10-11) and GP-DUP1 (1-2) were submitted as the field duplicate pair with this sample set. The following table summarizes the relative percent differences (RPDs) of the detected analytes, all of which were within the acceptance criteria with the exception of benzene, toluene, xylene, and ethylbenzene. The results for these compounds were estimated (J/UJ) in the field duplicate pair samples.

Compound	GP-23 (10-11) (ug/kg)	GP-DUP1 (1-2) (ug/kg)	RPD (%)
Benzene	970	45	182.2
Toluene	520	35	174.8
Xylene	1400	13	196.3
Ethylbenzene	1200U	130	NC
Naphthalene	38,000	43,000	12.3
2-Methylnaphthalene	34,000	42,000	21.1
Acenaphthylene	22,000	25,000	12.8
Acenaphthene	6800	7400	8.5
Fluorene	35,000	37,000	5.6
Phenanthrene	83,000	81,000	2.4
Anthracene	26,000	26,000	0
Flouranthene	46,000	46,000	0
Pyrene	36,000	33,000	8.7
Benzo(a)anthracene	24,000	22,000	8.7
Chrysene	18,000	19,000	5.4
Benzo(b)fluoranthene	11,000	19,000	53.3, Within RL
Benzo(k)fluoranthene	9800	7700	24.0
Benzo(a)pyrene	15,000	15,000	0

Compound	GP-23 (10-11) (ug/kg)	GP-DUP1 (1-2) (ug/kg)	RPD (%)
Indeno(123-cd)pyrene	7100	6100	15.2
Dibenzo(ah)anthracene	3000	2300	26.4
Benzo(ghi)perylene	7700	6100	23.2

NC - Not calculable

QL- Quantitation Limit

Moisture Content

All criteria were met.

Quantitation Limits and Data Assessment

Results were reported which were below the lowest calibration standard level (RL) and above the method detection limit (MDL) in the VOC and SVOC analyses. These results were qualified by the laboratory (J). These results were qualified as estimated (J) due to uncertainty at the low end of calibration.

The following table lists the sample dilutions which were performed and reported. Quantitation limits were elevated accordingly.

Sample	VOC Analysis Reported	SVOC Analysis Reported
GP-21 (14-15)	Medium Level analysis and 50-fold dilution was performed. QLs elevated by factor of 5000.	Final extract volume of 2 ml and 400-fold dilution performed. QLs elevated by factor of 800.
GP-22 (6.5-7.5)	Medium Level analysis and 10-fold dilution was performed. QLs elevated by factor of 1000.	A 20-fold dilution was performed.
GP-23 (10-11)	Medium Level analysis and 2-fold dilution was performed. QLs elevated by factor of 200.	A 20-fold dilution was performed.
GP-24 (11-12)	A 4-fold dilution was performed.	A 2-fold dilution was performed.
GP-DUP (1-2)	A 5-fold dilution was performed.	A 20-fold dilution was performed.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

Data Usability Summary Report

Project: Saratoga Springs, Saratoga Springs, NY
Laboratory: Severn Trent Laboratories, Shelton, CT
Report No.: 211385
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 17, 2006

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
GP-21 (14-15)	211385-01	Metals, Cyanide
GP-25 (21-22.5)	211385-02	Metals, Cyanide
GP-26 (17-18)	211385-03	Metals, Cyanide
GP-22 (6.5-7.5)	211385-04	Metals, Cyanide
GP-23 (10-11)	211385-05	Metals, Cyanide
GP-24 (11-12)	211385-06	Metals, Cyanide
GP-DUP (1-2)	211385-07	Metals, Cyanide
FB111605	211385-08	Metals, Cyanide

Associated QC Samples: Field Blanks: FB111605
Field Duplicate pair: GP23 (10-11)/GP-DUP (1-2)

The above-listed samples were collected on November 15 and 16, 2005 and were analyzed for metals by SW-846 methods 6010B and cyanide by SW-846 method 9012. The data validation was based on the USEPA Region II Standard Operating Procedure (SOP) for the Evaluation of Metals Data for the Contract Laboratory Program, SOP No. HW-2, Revision 11, January 1992.

The inorganic data were evaluated based on the following parameters:

- Data Completeness
- * • Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Detection Limit (CRDL) Standard Recoveries
- * • Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike (MS) Results
- * • Laboratory Duplicate Results
- * • Field Duplicate Results
- * • Laboratory Control Sample (LCS) Results

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- * • ICP Serial Dilution Analysis Results
- * • Moisture Content
- Detection Limits Results
- * • Sample Quantitation Results

- * - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- The positive results for arsenic in all soil samples were qualified as estimated (J) due to high recoveries in the continuing calibration standard analyses. The results may be biased high. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.
- The positive and nondetect results for potassium in sample FB111605 and potassium and sodium in all soil samples were qualified as estimated (J/UJ) due to low recoveries in the CRDL standard analysis. The results may be biased low. The results can be used for project objectives as estimated values or nondetects with estimated quantitation limits which may have a minor impact on the data usability.
- The nondetect results for antimony and thallium in all soil samples were qualified as estimated (UJ) due to low recoveries for these analytes in the MS analysis. The results may be biased low. The results can be used for project objectives as nondetects with estimated quantitation limits which may have a minor impact on the data usability.
- The following results were qualified as estimated (J) as the levels were below the lowest calibration standard and quantitation limit. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.

Arsenic:	GP-21 (14-15), GP-26 (17-18), GP-24 (11-12)
Barium:	All soil samples
Cobalt:	All soil samples
Lead:	GP-21 (14-15), GP-25 (21-22.5)
Nickel:	GP-21 (14-15), GP-25 (21-22.5), GP-26 (17-18), GP-23 (10-11), GP-24(11-12)
Potassium:	All soil samples
Sodium:	All soil samples

Thallium: GP-23 (10-11)
Vanadium: GP-21 (14-15), GP-25 (21-22.5), GP-26 (17-18), GP-24(11-12), GP-DUP (1-2)
Cyanide: GP-23 (10-11)

The validation recommendations listed above were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables with the following exception: the laboratory logged the soil samples in with a reduced metals list instead of the target analyte list metals. This was discovered upon validation. The laboratory was able to report all ICP metals for the soils, but as the holding time for mercury would have been exceeded, it was decided by GEI not to perform the mercury analysis.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

The following table summarized the analytes recovered outside of control limits in the continuing calibration verification (CCV) samples.

Analyte	CCV ID	Recovery (%)	Associated Samples	Validation Actions
Arsenic (11/30/05)	CCV2	111	All soils samples	Estimate (J) the positive results for arsenic in all soil samples.
	CCV4	111		
	CCV5	111		
	CCV6	111		
	CCV7	115		
Selenium (11/30/05)	CCV4	111	GP-21 (14-15), GP-25 (21-22.5), GP-26 (17-18), GP-22 (6.5-7.5), GP-23 (10-11)	Validation action was not required as the affected results were nondetect and therefore not affected by the potential high bias.
	CCV7	113		

CRDL Standard Recoveries

The following table summarized the analytes recovered outside of control limits in the CRDL standard. As the CRDL standard levels were much greater than the reporting limit, the affected analyte level range was determined as 2x the CRDL standard level analyzed.

Analyte	Recovery (%)	Associated Samples	Validation Actions
Potassium	79	FB111605	Estimate (UJ) the nondetect result for potassium in sample FB111605.
Potassium	68	All soil samples	Estimate (J) the positive results for potassium in all soil samples.
Sodium	73	All soil samples	Estimate (J) the positive results for sodium in all soil samples.

Blank Analysis Results

All instrument, method, and field blank results were found to be less than the reporting limit (RL).

ICP ICS Results

Thallium (30%) and selenium (78%) were recovered below the control limits in the ICSAB analysis associated with sample FB111605. Positive results were observed for lead and thallium in the ICSA analysis associated with sample FB111605. Validation actions were not required as sample interferent levels were less than those of the ICSA and ICSAB samples.

MS Results

An MS was performed on sample GP-25 (21-22.5) for the metals and cyanide analyses. The following table lists the analytes which exhibited recoveries outside of the control limits of 75 - 125% and the resulting validation actions.

Analyte	Recovery (%)	Actions
Antimony	32	Estimate (UJ) the nondetect results for antimony in all soil samples.
Thallium	55	Estimate (UJ) the nondetect results for thallium in all soil samples.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample GP-25 (21-22.5) for the metals and cyanide analyses. All validation criteria were met.

Field Duplicate Results

Samples GP-23 (10-11) and GP-DUP1 (1-2) were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes. All criteria were

met.

Analyte	GP23 (10-11) (mg/kg)	GP-DUP1 (1-2) (mg/kg)	RPD (%)
Aluminum	3790	3850	1.6
Arsenic	5.3	7.3	31.7
Barium	29.0	23.5	21.0
Calcium	53,700	39,200	31.2
Chromium	5.0	6.2	21.4
Cobalt	4.0	6.8	51.9
Copper	11.1	17.2	43.1
Iron	16,800	17,700	5.2
Lead	46.6	24.6	61.8
Magnesium	3430	3670	6.8
Manganese	303	225	29.5
Nickel	9.0	13.2	37.8
Potassium	413	420	1.7
Sodium	313	235	28.5
Vanadium	10.1	11.1	9.4
Zinc	28.6	31.5	9.7
Cyanide	174	604 U	NC, Within 2xQL
NC = Not calculable			

LCS Results

All criteria were met in the metals and cyanide analyses.

ICP Serial Dilution (ISD) Analysis Results

An ICP serial dilution analysis was performed on sample GP-25 (21-22.5). All criteria were met.

Moisture Content

All criteria were met.

Detection Limits Results

The aqueous mercury reporting limit for sample FB111605 was not calculated using the preparation factor of two (25 ml initial sample volume brought to a final volume of 50 ml). The reporting limit result was edited by the validator to reflect the sample preparation factor.

Positive results which were above the MDL but below the lowest standard (CRDL) analyzed were estimated (J) by the validator. The following results were affected:

Arsenic:	GP-21 (14-15), GP-26 (17-18), GP-24 (11-12)
Barium:	All soil samples
Cobalt:	All soil samples
Lead:	GP-21 (14-15), GP-25 (21-22.5)
Nickel:	GP-21 (14-15), GP-25 (21-22.5), GP-26 (17-18), GP-23 (10-11), GP-24(11-12)
Potassium:	All soil samples
Sodium:	All soil samples
Thallium:	GP-23 (10-11)
Vanadium:	GP-21 (14-15), GP-25 (21-22.5), GP-26 (17-18), GP-24(11-12), GP-DUP (1-2)
Cyanide:	GP-23 (10-11)

Sample Quantitation Results

Sample calculations were spot-checked; no discrepancies were noted.

Data Usability Summary Report

Project: Saratoga Springs, Saratoga Springs, NY
Laboratory: Severn Trent Laboratories, Shelton, CT
Report No.: 211421
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 3, 2006

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-1	211421-01	BTEX, PAH
MW-DUP1	211421-02	BTEX, PAH
MW-2	211421-03	BTEX, PAH
MW-3	211421-04	BTEX, PAH
B-2	211421-05	SVOC
B-1	211421-06	SVOC
B-3	211421-07	SVOC
FB111705	211421-08	BTEX, PAH
TB111705	211421-09	BTEX

Associated QC Samples: Field/Trip Blanks: FB111705, TB111705
Field Duplicate pair: MW-1, MW-DUP1

The above listed samples were collected on November 16 and 17, 2005 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260B and polynuclear aromatic hydrocarbons (PAH) and semivolatile organic compounds (SVOCs) by SW-846 method 8270C. The data validation was based on the *USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data Acquired using SW-846 Method 8260B*, SOP No. HW-24, Revision 1, June 1999 and *USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data Acquired using SW-846 Method 8270C*, SOP No. HW-22, Revision 2, June 2001.

The organic data were evaluated based on the following parameters:

- * • Data Completeness
- Holding Times and Sample Preservation
- * • Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- * • Blanks
- * • Surrogate Recoveries

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- * • Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- * • Internal Standards
- * • Laboratory Control Sample (LCS) Results
- * • Field Duplicate Results
- NA • Moisture Content
- * • Quantitation Limits and Data Assessment
- * • Sample Quantitation and Compound Identification

- * - All criteria were met.

NA - Not applicable to matrix contained in this sample set.

All results are usable for project objectives.

Qualifications were not applied as a result of sampling and analytical error.
The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables for the VOC and SVOC analyses.

Holding Times and Sample Preservation

All criteria were met in the VOC and SVOC analyses.

Two out of three cooler temperatures upon sample receipt at the laboratory exceeded six degrees Celsius at 9.6 and 6.6. Validation action was not required on this basis as the cooler temperature did not exceed 10 degrees.

GC/MS Tunes

All criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

All criteria were met in the VOC analyses.

Compounds that did not meet criteria in the SVOC initial calibrations are summarized in the following tables.

Instrument ID MSU Compound	IC 11/27/05
hexachlorocyclopentadiene	X (33.1%)
2,4-dinitrophenol	X (17.2%)
indeno(123-cd)pyrene	X (26.0%)
dibenzo(ah)anthracene	X (24.7%)
benzo(ghi)perylene	X (29.7%)
Samples Affected	All samples

X = Initial calibration (IC) relative standard deviation (%RSD) > 15; estimate (J) positive and (UJ) blank-qualified nondetect results.

XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.

XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.

+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Validation actions were not required due to initial calibration nonconformances as the results were nondetect and only positive results are affected.

Blanks

Target compounds were not detected in the VOC and SVOC method, field, and trip blank samples.

Surrogate Recoveries

All criteria were met in the VOC and SVOC analyses for samples analyzed without dilution.

MS/MSD Results

MS/MSD analyses were performed on sample MW-2 for the VOC and SVOC analyses. All criteria were met.

Internal Standards

All criteria were met in the VOC and SVOC analyses

LCS Results

All criteria were met in the VOC and SVOC analyses.

Field Duplicate Results

Samples MW-1 and MW-DUP1 were submitted as the field duplicate pair with this sample set. All results were nondetect.

Quantitation Limits and Data Assessment

Dilutions and reanalyses were not required.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

Data Usability Summary Report

Project: Saratoga Springs, Saratoga Springs, NY
Laboratory: Severn Trent Laboratories, Shelton, CT
Report No.: 211421
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 3, 2006

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-1	211421-01	Metals, Cyanide
MW-DUP1	211421-02	Metals, Cyanide
MW-2	211421-03	Metals, Cyanide
MW-3	211421-04	Metals, Cyanide
FB111705	211421-08	Metals, Cyanide

Associated QC Samples: Field Blanks: FB111705
Field Duplicate pair: MW-1/MW-DUP1

The above-listed samples were collected on November 16 and 17, 2005 and were analyzed for metals by SW-846 methods 6010B and 7470A and cyanide by SW-846 method 9012. The data validation was based on the USEPA Region II Standard Operating Procedure (SOP) for the Evaluation of Metals Data for the Contract Laboratory Program, SOP No. HW-2, Revision 11, January 1992.

The inorganic data were evaluated based on the following parameters:

- * • Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Detection Limit (CRDL) Standard Recoveries
- * • Blank Analysis Results
- * • Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- * • Matrix Spike (MS) Results
- * • Laboratory Duplicate Results
- * • Field Duplicate Results
- Laboratory Control Sample (LCS) Results
- ICP Serial Dilution Analysis Results
- NA • Moisture Content

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- Detection Limits Results
- * • Sample Quantitation Results
- * - All criteria were met for this parameter.

NA- Not applicable to matrix contained in this sample set.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- The positive and nondetect results for potassium in samples MW-1, MW-DUP1, MW-2, MW-3, and FB111705 and sodium in sample FB111705 were qualified as estimated (J/UJ) due to low recoveries in the CRDL standard analysis. The results may be biased low. The results can be used for project objectives as estimated values or nondetects with estimated quantitation limits which may have a minor impact on the data usability.
- The positive and nondetect results for potassium in samples MW-1, MW-DUP1, MW-2, MW-3, and FB111705 were qualified as estimated (J/UJ) due to low recovery in the LCS analysis. The results may be biased low. The results can be used for project objectives as estimated values or nondetects with estimated quantitation limits which may have a minor impact on the data usability.
- The positive results for potassium and sodium in samples MW-1, MW-DUP1, MW-2, and MW-3 were qualified as estimated (J) due to high percent differences (%Ds) in the ICP serial dilution analysis. The results can be used for project objectives as estimated values, which may have a minor impact on the data usability.
- The following results were qualified as estimated (J) as the levels were below the lowest calibration standard and quantitation limit. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.

Barium:	MW-1, MW-DUP1, MW-3, MW-2
Cobalt:	MW-1
Calcium:	FB111705
Copper:	MW-3, FB111705
Silver:	MW-1
Sodium:	FB111705
Potassium:	MW-1, MW-DUP1, MW-2, MW-3

The validation recommendations listed above were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

Two out of three cooler temperatures upon sample receipt at the laboratory exceeded six degrees Celsius at 9.6 and 6.6. Validation action was not required on this basis as the cooler temperature did not exceed 10 degrees.

Instrument Calibration

The following table summarized the analytes recovered outside of control limits in the continuing calibration verification (CCV) samples.

Analyte	CCV ID	Recovery (%)	Associated Samples	Validation Actions
Arsenic	CCV2	111	MW-1, MW-DUP1	Validation action was not required as the affected results were nondetect and therefore not affected by the potential high bias.
Arsenic Selenium	CCV4	111 111	MW-2, MW-3, FB111705	Validation action was not required as the affected results were nondetect and therefore not affected by the potential high bias.

CRDL Standard Recoveries

The following table summarized the analytes recovered outside of control limits in the CRDL standard. As the CRDL standard levels were much greater than the reporting limit, the affected analyte level range was determined as 2x the CRDL standard level analyzed.

Analyte	Recovery (%)	Associated Samples	Validation Actions
Potassium	68	All samples	Estimate (J/UJ) the positive and nondetect results for potassium in all samples.

Analyte	Recovery (%)	Associated Samples	Validation Actions
Sodium	73	All samples	Estimate (J) the positive result for sodium in sample FB111705.

Blank Analysis Results

All instrument, method, and field blank results were found to be less than the reporting limit (RL).

ICP ICS Results

All recovery criteria were met in the ICSAB analysis. All ICSA results were found to be less than the RL.

MS Results

An MS was performed on sample MW-2 for the metals and cyanide analyses. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample MW-2 for the metals and cyanide analyses. All criteria were met.

Field Duplicate Results

Samples MW-1 and MW-DUP1 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes. All criteria were met.

Analyte	MW-1 (ug/L)	MW-DUP1 (ug/L)	RPD (%)
Barium	35.2	35.9	2.0
Calcium	118,000	120,000	1.7
Cobalt	2.6	10.0 U	NC, within 2xQL
Magnesium	11,200	11,400	1.8
Potassium	2770	2770	0
Silver	1.2	6.0 U	NC, within 2xQL
Sodium	94,600	96,700	2.2
NC = Not calculable			

LCS Results

The recovery for potassium (76) was below the control limits in the LCS associated with all samples. The positive and nondetect results for potassium were estimated (J/UJ) in all samples.

ICP Serial Dilution (ISD) Analysis Results

An ICP serial dilution analysis was performed on sample MW-2. The following table lists the analyte %Ds found outside of control limits.

Analyte	%D (%)	Associated Samples	Validation Actions
Potassium	12.9	All samples	Estimate (J) the positive results for potassium in samples MW-1, MW-DUP1, MW-2, and MW-3.
Sodium	13.1	All samples	Estimate (J) the positive results for sodium in samples MW-1, MW-DUP1, MW-2, and MW-3.

Detection Limits Results

The mercury reporting limit was not calculated using the preparation factor of two (25 ml initial sample volume brought to a final volume of 50 ml). The reporting limit results were edited by the validator to reflect the sample preparation factor.

Positive results which were above the MDL but below the lowest standard (CRDL) analyzed were estimated (J) by the validator. The following results were affected:

Barium: MW-1, MW-DUP1, MW-3, MW-2
Cobalt: MW-1
Calcium: FB111705
Copper: MW-3, FB111705
Silver: MW-1
Sodium: FB111705
Potassium: MW-1, MW-DUP1, MW-2, MW-3

Sample Quantitation Results

Sample calculations were spot-checked; no discrepancies were noted.



SOIL BORING (GP-21)

Boring/Well ID:	GP-21	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/15/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	25.0'	Driller:	Roger Buley
Elevation (ground):	288.3' (NVGD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface			

Depth (ft.)	Sample Interval (feet)	PID Screening (ppm)	Penetration / Recovery (feet)	Soil/Geologic Description	Geologic Strata
1 2 3 4 5	0-5	0.0	5/1.5	0.0' - 1.5': WIDELY GRADED SAND (SW), mostly fine sand, <5% fine angular gravel, <5% silt, brick fragments, brown to grey, dry, ORGANIC TOPSOIL FILL.	
6 7 8 9 10	5-10	6.1 - 276	5/4.6	0.0' - 1.4': Same as 0.0' - 1.5' interval above, FILL. 1.4' - 4.6': WIDELY GRADED SAND (SW), mostly medium sand, ~30% coarse sand, ~15% fine sand, <5% silt, dark brown, moist to wet, naphthalene-like odor.	
11 12 13 14 15	10-15	4.7 - 598	5/3.8	0.0' - 3.8': WIDELY GRADED SAND (SW), mostly fine sand, ~15% medium sand, ~15% coarse sand, <5% silt, dark brown, wet, fuel oil-like odor mixed with naphthalene-like odor. <i>Analytical sample GP-21(14-15) collected for BTEX, PAH, Cyanide, TAL Metals, and GC Fingerprint analysis.</i>	
16 17 18 19 20	15-20	7.2 - 17.1	5/4.8	0.0' - 4.8': WIDELY GRADED SAND (SW), mostly medium sand, ~30% coarse sand, ~10% fine sand, <5% silt, dark brown, wet, slight naphthalene-like odor.	



SOIL BORING (GP-21)

Boring/Well ID:	GP-21	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/15/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	25.0'	Driller:	Roger Buley
Elevation (ground):	288.3' (NVGD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface			

21					
22					
23	20-25	7.2	5/5.0	0.0' - 5.0': Same as 0.0' - 4.8' interval above.	
24					
25					
	End of boring at 25.0' bgs.				



SOIL BORING (GP-22)

Boring/Well ID:	GP-22	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/16/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	10.0'	Driller:	Roger Buley
Elevation (ground):	289.4' (NVGD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface			

Depth (ft.)	Sample Interval (feet)	PID Screening (ppm)	Penetration / Recovery (feet)	Soil/Geologic Description	Geologic Strata
1 2 3 4 5	0-5	0.0	5/2.8	0.0' - 2.8': WIDELY GRADED SAND (SW), mostly fine sand, ~20% coarse sand, <5% fine semi-angular gravel, max size 0.5", brick, coal, and concrete fragments, brown, moist, FILL.	
6 7 8 9 10	5-10	0.0 - 17.9	5/1.7	0.0' - 1.7': WIDELY GRADED SAND WITH SILT (SW), mostly fine sand, ~20% silt, ~10% coarse sand, ~10% fine round to angular gravel, max size 0.25", ash, brick fragments, brown, wet, naphthalene-like odor, sheen, FILL. <i>Analytical sample GP-22 (6.5-7.5) collected for BTEX, PAH, Cyanide, and TAL Metals.</i>	
11 12	End of boring at 10.0' bgs.				



SOIL BORING (GP-23)

Boring/Well ID:	GP-23	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/16/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	15.0'	Driller:	Roger Buley
Elevation (ground):	289.5' (NVD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface			

Depth (ft.)	Sample Interval (feet)	PID Screening (ppm)	Penetration / Recovery (feet)	Soil/Geologic Description	Geologic Strata
1	0-5	0.0	5/2.9	0.0' - 2.9': WIDELY GRADED SAND (SW), mostly medium sand, ~10% coarse sand, ~10% fine round to angular gravel, max size 0.25", brick fragments, ash layers towards bottom, brown, moist, FILL.	
2					
3					
4					
5					
6	5-10	0.0	5/2.9	0.0' - 2.9': Same as 0.0' - 2.9' interval above, slight naphthalene-like odor towards bottom, FILL.	
7					
8					
9					
10					
11	10-15	11.7-798	5/3.1	0.0' - 3.1': WIDELY GRADED SAND (SW), mostly medium sand, ~10% fine to medium round gravel, max size 0.5", ~20% coarse sand, brown, wet, naphthalene-like odor, FILL. <i>Analytical sample GP-23 (10-11) collected for BTEX, PAH, Cyanide, and TAL Metals.</i>	
12					
13					
14					
15					
16	End of boring at 15.0' bgs.				
17					



SOIL BORING (GP-24)

Boring/Well ID:	GP-24	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/16/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	15.0'	Driller:	Roger Buley
Elevation (ground):	289.3' (NVGD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface			

Depth (ft.)	Sample Interval (feet)	PID Screening (ppm)	Penetration / Recovery (feet)	Soil/Geologic Description	Geologic Strata
1 2 3 4 5	0-5	0.0	5/1.3	0.0' - 1.3': WIDELY GRADED SAND (SW), mostly medium sand, ~20% fine round gravel, max size 0.25", <5% silt, clinker, ash, brown, moist, FILL.	
6 7 8 9 10	5-10	0.0	5/1.8	0.0' - 1.8': Same as 0.0' - 1.3' interval above.	
11 12 13 14 15	10-15	3.6 - 488	5/4.2	0.0' - 4.2': WIDELY GRADED SAND (SW), mostly medium sand, ~25% coarse sand, <5% silt, <5% fine gravel, max size 0.25", brown to black, wet, strong naphthalene-like odor, sheen, FILL. <i>Analytical sample GP-24 (11-12) collected for BTEX, PAH, Cyanide, and TAL Metals.</i>	
16 17	End of boring at 15.0' bgs.				



SOIL BORING (GP-25)

Boring/Well ID:	GP-25	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/15/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	25.0'	Driller:	Roger Buley
Elevation (ground):	283.3' (NVGD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface			

Depth (ft.)	Sample Interval (feet)	PID Screening (ppm)	Penetration / Recovery (feet)	Soil/Geologic Description	Geologic Strata
1 2 3 4 5	0-5	0.0	5/3.2	0.0' - 2.6': WIDELY GRADED SAND WITH GRAVEL (SW), mostly medium sand, ~25% fine to medium gravel, max size 0.5", <5% silt, clinker and slag, dark brown, FILL. 2.6' - 3.2': WIDELY GRADED SAND (SW), mostly medium sand, ~10% coarse sand, <5% silt, brown, moist.	
6 7 8 9 10	5-10	0.0	5/1.8	0.0' - 1.8': WIDELY GRADED SAND (SW), mostly medium sand, ~25% fine sand, ~15% coarse sand, <5% silt, brown, wet.	
11 12 13 14 15	10-15	0.0	5/4.8	0.0' - 4.8': WIDELY GRADED SAND WITH SILT (SW), mostly medium sand, ~25% coarse sand, ~20% silt, ~15% fine sand, grey to brown, wet.	
16 17 18 19 20	15-20	0.0	5/2.4	0.0' - 0.5': SILTY SAND (SM), mostly fine sand, ~30% silt, organic material, dark brown, wet. 0.5' - 2.4': Same as 0.0' - 4.8' interval above.	



SOIL BORING (GP-25)

Boring/Well ID:	GP-25	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/15/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	25.0'	Driller:	Roger Buley
Elevation (ground):	283.3' (NVGD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface			

Depth (ft.)	Sample Interval (feet)	PID Screening (ppm)	Penetration / Recovery (feet)	Soil/Geologic Description	Geologic Strata
21 22 23 24 25	20-25	0.0	5/2.3	0.0' - 1.7': Same as 0.5' - 2.4' interval above. 1.7' - 2.3': SILTY CLAY (ML), brown, wet. <i>Analytical sample GP-25 (21-22.5) collected for BTEX, PAH, Cyanide, and TAL Metals.</i>	
End of boring at 25.0' bgs.					



SOIL BORING (GP-26)

Boring/Well ID:	GP-26	Client:	National Grid
Project Number:	034400	Project Name:	Saratoga Springs Non-Owned MGP
Logged By:	Daniel Burke	Site Address:	Lake Ave., Saratoga Springs, New York
Date:	11/16/2005	Contractor:	Aquifer Drilling & Testing (ADT)
Total Depth:	20.0'	Driller:	Roger Buley
Elevation (ground):	285.9' (NVGD 29)	Drilling Method:	Geoprobe
Notes: bgs - below ground surface NA - not available			

Depth (ft.)	Sample Interval (feet)	PID Screening (ppm)	Penetration / Recovery (feet)	Soil/Geologic Description	Geologic Strata
1 2 3 4 5	0-5	0.0	5/2.5	0.0' - 2.5': WIDELY GRADED SAND (SW), mostly medium sand, ~10% fine and coarse sand, <5% fine to medium round gravel, max size 0.5", brick fragments at 1.8', ash, clinker, brown to dark brown, moist, FILL.	
6 7 8 9 10	5-10	0.0	5/0.8	0.0' - 0.8': WIDELY GRADED SAND (SW), mostly medium sand, ~15% fine sand, brown, wet.	
11 12 13 14 15	10-15	NA	NA	No Recovery - rock in tip of macro-core Offset and attempted 2nd sample - sample fell out of macro-core even with basket.	
16 17 18 19 20	15-20	0.0	5/2.0	0.0' - 1.5': WIDELY GRADED SAND (SW), mostly medium sand, ~10% fine sand, brown, wet. 1.5' - 2.2': SILT (ML), mostly silt, <5% fine sand, dense, brown, wet. 2.2' - 2.4': CLAY (CL), dense, brown, moist. <i>Analytical sample GP-26 (17-18) collected for BTEX, PAH, Cyanide, and TAL Metals.</i>	
21 22	End of boring at 20.0' bgs.				