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Remedial Investigation Report

General Motors LLC
Former General Motors
Assembly Plant Site
Sleepy Hollow, New York

VOLUME II of II

January 2012

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Appendices

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Soil and Groundwater Data from Previous Investigations

Appendix A

Soil and Groundwater Data from Previous Investigations

Appendix A-1: Phase II Investigation – 1996 (EMCON 1997)

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Appendix A-3: Interim Corrective Measures – 1998 (EMCON 2001)

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Phase II Investigation – 1996 (EMCON 1997)

Table 5
Background Sample Locations
Organic Compound Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background						
Sample Location	**Unrestricted Use**	**FA**	**FA**	**FA**	**FA**	**FC**	**FC**	**FC**
Sample Depth (ft.)	**Screening Value**	**1-3**	**3-5**	**7-9**	**9-11**	**0.5-2.5**	**6-8**	**22-24**
Saturationn (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**U**	**S**	**U**	**S**	**S**
TCL Organics (ug/kg)	*(ug/kg)*							
Acetone (1)	200	19	ND	70	37	24	ND	54
Benzene	60	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	15	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	5.7	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (2)	600	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	8.1	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND	ND	720
Acenaphthylene	41000	ND	ND	ND	ND	ND	440	ND
Anthracene	50000	ND	ND	ND	ND	ND	ND	1200
Benzo(a)Anthracene	224 or MDL	ND	ND	ND	ND	740	540	2000
Benzo(a)Pyrene	61 or MDL	ND	ND	ND	ND	720	730	1700
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND	ND	860	800	2100
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND	ND	790	ND	810
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND	ND	740	ND
Di-n-Butylphthalate	8100	920	3500	460	420	2800	3200	3400
Carbazole	50000	ND	ND	ND	ND	ND	ND	560
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	740	580	1900
Dibenzo(a,h)Anthracene	14 or MDL	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	1300	730	4100
Fluorene	50000	ND	ND	ND	ND	ND	ND	840
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND	580
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	ND	1100	ND	4100
Pyrene	50000	ND	ND	ND	ND	1300	1000	3800
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND	ND
PCB 1254	1000/10000 (3)	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Total C-PAHs	10000					3850	2650	8510
Total Semi-VOCS	500000	920	3500	460	420	10350	8760	27810

Constituents With Levels Above TAGM 4046 Values
(1) Acetone attributable to laboratory artifact
(2) 1,1,2,2-Tetrachloroethane limited to background location
(3) Total PCB Values for Surface/Subsurface
SB - Site Background
-- Not Analyzed
ND - Not Detected

Table 5
Background Sample Locations
Organic Compound Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background					
Sample Location	**Unrestricted Use**	**FD**	**FD**	**FD**	**FE**	**FE**	**FE**
Sample Depth (ft.)	**Screening Value**	**2-4**	**20-23**	**23-24**	**1-3**	**7-9**	**9-11**
Saturationn (Sat/Unsat)	**TAGM 4046**	**U**	**S**	**S**	**U**	**S**	**S**
TCL Organics (ug/kg)	*(ug/kg)*						
Acetone (1)	200	15	1700	35	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	6.2	ND	6.9	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (2)	600	ND	ND	ND	ND	ND	ND
Toluene	1500	5.6	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND	ND
Anthracene	50000	ND	640	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	890	ND	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	ND	720	ND	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	ND	970	ND	ND	ND	ND
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	680	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND	ND	ND
Di-n-Butylphthalate	8100	540	540	1400	790	1100	1000
Carbazole	50000	ND	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	ND	ND
Chrysene	400	370	960	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	14 or MDL	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	ND	ND
Fluoranthene	50000	560	1800	ND	ND	ND	ND
Fluorene	50000	ND	600	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	2400	ND	ND	ND	ND
Pyrene	50000	750	1700	ND	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND
PCB 1254	1000/10000 (3)	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND
Total C-PAHs	10000	370	4220				
Total Semi-VOCS	500000	2220	11900	1400	790	1100	1000

Constituents With Levels Above TAGM 4046 Values
(1) Acetone attributable to laboratory artifact
(2) 1,1,2,2-Tetrachloroethane limited to background location
(3) Total PCB Values for Surface/Subsurface
SB - Site Background
-- Not Analyzed
ND - Not Detected

Table 5
Background Sample Locations
Organic Compound Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background						
Sample Location	**Unrestricted Use**	**FF**	**FF**	**FF-DUP**	**FF**	**FF**	**FG**	**FG**
Sample Depth (ft.)	**Screening Value**	**1.5-2.5**	**7-9**	**7-9**	**9-11**	**19-21**	**0-0.5**	**5-5.5**
Saturationn (Sat/Unsat)	**TAGM 4046**	**U**	**S**	**S**	**S**	**S**	**U**	**S**
TCL Organics (ug/kg)	*(ug/kg)*							
Acetone (1)	200	ND	ND	ND	96	17	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	6.5	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (2)	600	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	23	6.4	ND	5.7	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	27000	24000	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND	ND	ND
Anthracene	50000	ND	40000	34000	ND	ND	390	ND
Benzo(a)Anthracene	224 or MDL	ND	41000	38000	ND	490	1400	ND
Benzo(a)Pyrene	61 or MDL	ND	30000	30000	ND	470	1300	ND
Benzo(b)Fluoranthene	61 or MDL	ND	30000	36000	ND	600	2300	ND
Benzo(g,h,i)Perylene	50000	ND	9000	9200	ND	ND	570	ND
Benzo(k)Fluoranthene	610 or MDL	ND	17000	19000	ND	ND	840	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND	ND	4100	ND
Di-n-Butylphthalate	8100	490	ND	ND	ND	1200	650	ND
Carbazole	50000	ND	21000	15000	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	9500	9500	ND	ND	550	ND
Chrysene	400	ND	34000	31000	ND	560	1600	ND
Dibenzo(a,h)Anthracene	14 or MDL	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	17000	15000	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	470	460	ND
Fluoranthene	50000	ND	84000	77000	ND	990	2500	ND
Fluorene	50000	ND	32000	27000	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	110000	100000	ND	1100	1300	ND
Pyrene	50000	ND	75000	68000	ND	1100	2500	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND	ND
PCB 1254	1000/10000 (3)	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Total C-PAHs	10000		161500	163500		2120	7990	
Total Semi-VOCS	500000	490	576500	532700		6980	20460	

Constituents With Levels Above TAGM 4046 Values
(1) Acetone attributable to laboratory artifact
(2) 1,1,2,2-Tetrachloroethane limited to background location
(3) Total PCB Values for Surface/Subsurface
SB - Site Background
-- Not Analyzed
ND - Not Detected

Table 5
Background Sample Locations
Organic Compound Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background				
Sample Location	**Unrestricted Use**	**FH**	**FI**	**FI**	**FI**	**FI**
Sample Depth (ft.)	**Screening Value**	**0-0.5**	**3-5**	**9-11**	**11-13**	**17-19**
Saturationn (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**S**	**S**	**S**
TCL Organics (ug/kg)	*(ug/kg)*					
Acetone (1)	200	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (2)	600	ND	ND	ND	ND	ND
Toluene	1500	5.4	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
Acenaphthene	50000	7700	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Anthracene	50000	29000	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	100000	ND	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	70000	ND	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	110000	ND	ND	ND	ND
Benzo(g,h,i)Perylene	50000	30000	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	49000	370	ND	ND	ND
Butyl Benzyl Phthalate	50000	18000	8500	ND	ND	1700
Di-n-Butylphthalate	8100	ND	1500	3600	4200	1700
Carbazole	50000	8100	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	30000	ND	ND	ND	ND
Chrysene	400	100000	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	14 or MDL	12000	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	7300	5400	ND
Fluoranthene	50000	120000	ND	ND	ND	ND
Fluorene	50000	7400	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND
Phenanthrene	50000	72000	ND	ND	ND	ND
Pyrene	50000	130000	ND	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND
PCB 1254	1000/10000 (3)	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND
Total C-PAHs	10000	471000	370			
Total Semi-VOCS	500000	893200	10370	10900	9600	3400

Constituents With Levels Above TAGM 4046 Values
(1) Acetone attributable to laboratory artifact
(2) 1,1,2,2-Tetrachloroethane limited to background location
(3) Total PCB Values for Surface/Subsurface
SB - Site Background
-- Not Analyzed
ND - Not Detected

Table 5
Background Sample Locations
Organic Compound Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background						
Sample Location	**Unrestricted Use**	**FJ**	**FJ**	**FJ**	**FJ**	**FK**	**FK**	**FK**
Sample Depth (ft.)	**Screening Value**	**1-3**	**3-5**	**7-9**	**9-11**	**0.4-2**	**10-12**	**16-18**
Saturationn (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**S**	**S**	**U**	**S**	**S**
TCL Organics (ug/kg)	*(ug/kg)*							
Acetone (1)	200	ND	ND	ND	ND	ND	ND	51
Benzene	60	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (2)	600	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	7.6	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND	ND	710
Acenaphthylene	41000	ND	ND	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND	ND	1900
Benzo(a)Anthracene	224 or MDL	ND	ND	ND	ND	ND	ND	2400
Benzo(a)Pyrene	61 or MDL	ND	ND	ND	ND	ND	ND	1700
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND	ND	ND	ND	2400
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	ND	ND	420
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND	ND	ND	ND	1700
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND	ND	ND	ND
Di-n-Butylphthalate	8100	490	500	460	ND	2100	2100	420
Carbazole	50000	ND	ND	ND	ND	ND	ND	870
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	ND	ND	460
Chrysene	400	ND	ND	ND	ND	ND	ND	2500
Dibenzo(a,h)Anthracene	14 or MDL	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	ND	620
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	ND	ND	4700
Fluorene	50000	ND	ND	ND	ND	ND	ND	1100
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	ND	ND	ND	5200
Pyrene	50000	440	ND	ND	ND	ND	ND	4300
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND	ND
PCB 1254	1000/10000 (3)	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Total C-PAHs	10000							11160
Total Semi-VOCS	500000	930	500	460		2100	2100	31400

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) 1,1,2,2-Tetrachloroethane limited to background location

(3) Total PCB Values for Surface/Subsurface

SB - Site Background

-- Not Analyzed

ND - Not Detected

Table 5
Background Sample Locations
Organic Compound Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background			Original Ground Pre-1914 Fill & Soil			
Sample Location	**Unrestricted Use**	**1FL**	**1FL-DUP**	**1FL**	**0GA**	**0GA**	**0GB**	**0GB**
Sample Depth (ft.)	**Screening Value**	**2-4**	**2-4**	**6-8**	**0-2**	**6-8**	**0.5-2.5**	**10-12**
Saturationn (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**S**	**U**	**U**	**U**	**S**
TCL Organics (ug/kg)	*(ug/kg)*							
Acetone (1)	200	ND	16	20	16	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	3900
2-Butanone (MEK)	300	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND	6900
2-Hexanone	NA	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (2)	600	ND	ND	ND	ND	ND	ND	7100
Toluene	1500	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	1300
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND	8900
Acenaphthene	50000	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND	ND	ND	3800	ND
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	1600	ND	ND	12000	ND
Di-n-Butylphthalate	8100	3300	370	2400	ND	1300	ND	ND
Carbazole	50000	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	14 or MDL	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	400	ND	ND	ND	ND	34000
Fluoranthene	50000	ND	ND	ND	ND	ND	8800	ND
Fluorene	50000	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND	49000
Naphthalene	13000	ND	ND	ND	ND	ND	ND	67000
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	ND	ND	9000	18000
Pyrene	50000	ND	ND	ND	ND	ND	7100	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND	59
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND	80
PCB 1254	1000/10000 (3)	ND	ND	ND	ND	ND	ND	1800
Alpha-BHC	110	ND	ND	ND	ND	ND	ND	ND
Total C-PAHs	10000						3800	
Total Semi-VOCS	500000	3300	770	4000		1300	40700	168000

Constituents With Levels Above TAGM 4046 Values
(1) Acetone attributable to laboratory artifact
(2) 1,1,2,2-Tetrachloroethane limited to background location
(3) Total PCB Values for Surface/Subsurface
SB - Site Background
-- Not Analyzed
ND - Not Detected

Table 6
Background Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background			
Sample Location	**Unrestricted Use Screening Value TAGM 4046 (mg/kg)**	**FA**	**FA**	**FA**	**FA**
Sample Depth (ft.)		**1-3**	**3-5**	**7-9**	**9-11**
Saturation (Sat/Unsat)		**U**	**U**	**U**	**S**
TAL Inorganics (mg/kg)					
Aluminum	SB	7130	4660	8720	7400
Antimony	SB	<6.40	<6.83	<7.83	<7.63
Arsenic	7.5 or SB	<1.07	3.76	3.78	1.99
Barium	300 or SB	42.2	177	32.4	27.3
Beryllium	0.16 or SB	<0.533	<0.569	<0.653	<0.636
Cadmium	1 or SB	<0.533	<0.569	<0.653	<0.636
Calcium	SB	6650	4630	3150	4250
Chromium	10 or SB	12.6	12.4	19	15
Cobalt	30 or SB	5.88	7.37	8.86	7.17
Copper	25 or SB	14.5	25.1	13.7	13.8
Iron	2000 or SB	14900	19500	19600	18000
Lead	500 (Urban) or SB	5.28	112	17.1	17.9
Magnesium	SB	3860	2500	4510	4270
Manganese	SB	302	156	291	264
Mercury	0.1	<0.160	<0.171	<0.196	<0.191
Nickel	13 or SB	16.1	17.9	18.1	15.1
Potassium	SB	996	702	1810	1380
Selenium	2 or SB	3.85	4.26	3.67	4.6
Silver	SB	<1.07	<1.14	<1.31	<1.27
Sodium	SB	151	148	245	162
Thallium	SB	<1.07	<1.14	<1.31	<1.27
Vanadium	150 or SB	13.7	13.6	20.7	17
Zinc	20 or SB	34	221	56.1	48.4
Total Cyanide	Site -specific	<1.07	<1.14	<1.31	<1.27

Constituents With Levels Above TAGM 4046 Values

SB - Site Background

-- Not Analyzed

Table 6
Background Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background					
Sample Location	**Unrestricted Use Screening Value TAGM 4046 (mg/kg)**	**FC**	**FC**	**FC**	**FD**	**FD**	**FD**
Sample Depth (ft.)		**0.5-2.5**	**6-8**	**22-24**	**2-4**	**20-23**	**23-24**
Saturation (Sat/Unsat)		**U**	**S**	**S**	**U**	**S**	**S**
TAL Inorganics (mg/kg)							
Aluminum	SB	5510	7320	7090	5140	5090	4210
Antimony	SB	<6.71	<7.30	10	<6.71	<7.20	<6.98
Arsenic	7.5 or SB	1.17	<1.22	3.01	1.79	<1.20	<1.16
Barium	300 or SB	82	37.3	126	40.7	36.1	14.1
Beryllium	0.16 or SB	<0.559	<0.608	<0.663	<0.559	<0.600	<0.581
Cadmium	1 or SB	<0.559	<0.608	<0.663	<0.559	<0.600	<0.581
Calcium	SB	84900	15100	5640	11000	1950	5770
Chromium	10 or SB	12.2	10.9	19.5	10.2	9.15	7.75
Cobalt	30 or SB	<5.59	6.09	7.15	<5.59	<6.00	<5.81
Copper	25 or SB	17.2	13.4	40	16.9	7.66	6.34
Iron	2000 or SB	12800	16400	21600	12600	12500	10300
Lead	500 (Urban) or SB	24.5	21.2	122	40.3	7.48	2.72
Magnesium	SB	33700	4150	4500	6590	2730	2390
Manganese	SB	229	213	240	163	127	117
Mercury	0.1	<0.168	<0.182	<0.199	<0.168	<0.180	<0.174
Nickel	13 or SB	10.8	13.9	16	10.5	10.4	8.14
Potassium	SB	851	964	1290	1160	829	639
Selenium	2 or SB	3.9	3.75	4.89	2.79	2.56	2
Silver	SB	<1.12	<1.22	<1.33	<1.12	<1.20	<1.16
Sodium	SB	<112	--	267	--	--	--
Thallium	SB	<1.12	<1.22	<1.33	<1.12	<1.20	<1.16
Vanadium	150 or SB	17	12.3	15.9	15.6	9.24	7.63
Zinc	20 or SB	39.4	44.2	145	41.8	29.4	21
Total Cyanide	Site -specific	<1.12	<1.22	2.39	<1.12	<1.20	<1.16

Constituents With Levels Above TAGM 4046 Values

SB - Site Background

-- Not Analyzed

Table 6
Background Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background					
Sample Location	**Unrestricted Use Screening Value TAGM 4046 (mg/kg)**	**FE**	**FE**	**FE**	**FF**	**FF**	**FF-DUP**
Sample Depth (ft.)		**1-3**	**7-9**	**9-11**	**1.5-2.5**	**7-9**	**7-9**
Saturation (Sat/Unsat)		**U**	**S**	**S**	**U**	**S**	**S**
TAL Inorganics (mg/kg)							
Aluminum	SB	5830	8280	6830	6520	5570	6350
Antimony	SB	<6.96	<7.79	<7.24	<6.66	10.9	<6.47
Arsenic	7.5 or SB	<1.16	<1.30	<1.21	<1.11	4.54	4.42
Barium	300 or SB	56.3	17.8	21.9	79.4	938	1620
Beryllium	0.16 or SB	<0.580	<0.649	<0.603	<0.555	<0.543	<0.539
Cadmium	1 or SB	<0.580	<0.649	<0.603	<0.555	<0.543	0.852
Calcium	SB	9380	21300	9260	5060	36000	14800
Chromium	10 or SB	14.7	12.2	10.5	14.3	10.7	25.9
Cobalt	30 or SB	7.43	<0.649	<6.03	5.91	5.82	7.65
Copper	25 or SB	13	9.89	9.66	15.3	18.2	32.5
Iron	2000 or SB	11900	18000	13500	13100	14600	20800
Lead	500 (Urban) or SB	2.24	5.01	4.49	42	511	425
Magnesium	SB	6820	4960	4550	4230	19900	8940
Manganese	SB	186	184	209	173	214	392
Mercury	0.1	<0.174	<0.195	<0.181	<0.166	<0.163	<0.162
Nickel	13 or SB	10.6	15.8	13.6	12.8	9.62	13.6
Potassium	SB	2250	1100	1120	1280	1510	1440
Selenium	2 or SB	2.25	3.27	2.18	2.62	2.94	3.13
Silver	SB	<1.16	<1.30	<1.21	<1.11	<1.09	<1.08
Sodium	SB	217	402	296	137	212	309
Thallium	SB	<1.16	<1.30	<1.21	<1.11	<1.09	<1.08
Vanadium	150 or SB	19.1	14.3	11	13.9	27.7	21.6
Zinc	20 or SB	26	42.3	33.7	115	67.9	142
Total Cyanide	Site -specific	<1.16	<1.30	<1.21	<1.11	<1.09	<1.08

Constituents With Levels Above TAGM 4046 Values

SB - Site Background

-- Not Analyzed

Table 6
Background Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background					
Sample Location	**Unrestricted Use Screening Value TAGM 4046 (mg/kg)**	**FF**	**FF**	**FG**	**FG**	**FH**	**FI**
Sample Depth (ft.)		**9-11**	**19-21**	**0-0.5**	**5-5.5**	**0-0.5**	**9-11**
Saturation (Sat/Unsat)		**S**	**S**	**U**	**S**	**U**	**S**
TAL Inorganics (mg/kg)							
Aluminum	SB	9000	7890	8250	6980	7620	8410
Antimony	SB	125	16.2	14.2	<1.20	17.9	10.1
Arsenic	7.5 or SB	39	12.6	5.98	<1.20	12.6	6.08
Barium	300 or SB	7700	1590	1530	82.5	1970	1210
Beryllium	0.16 or SB	<0.595	<0.695	<0.522	<0.602	<0.531	<0.619
Cadmium	1 or SB	25.4	3.32	4.73	<0.602	22.7	<0.619
Calcium	SB	29900	5990	6840	16900	16600	16700
Chromium	10 or SB	154	52.1	62.4	10.5	350	27
Cobalt	30 or SB	8.96	10.6	8.45	<6.02	6.77	7.51
Copper	25 or SB	340	101	85	14.2	277	15.3
Iron	2000 or SB	101000	25500	35900	15000	37200	20200
Lead	500 (Urban) or SB	8660	2780	921	34.4	2280	482
Magnesium	SB	16200	5620	5090	4090	5060	5210
Manganese	SB	705	438	315	167	426	268
Mercury	0.1	0.32	0.38	0.269	<0.181	0.485	<0.186
Nickel	13 or SB	75.9	22.5	46.9	13.5	33.8	16.8
Potassium	SB	1560	1140	1300	901	1770	1250
Selenium	2 or SB	24.3	4.31	<0.522	<0.602	15.1	3.45
Silver	SB	3.86	<1.39	<1.04	<1.20	1.29	<1.24
Sodium	SB	921	731	2790	380	1440	455
Thallium	SB	<1.19	<1.39	<1.04	<1.20	<1.06	<1.24
Vanadium	150 or SB	30.7	20.9	28.9	10.8	31.4	17.1
Zinc	20 or SB	2740	299	357	36.4	1190	104
Total Cyanide	Site -specific	1.8	<1.39	1.63	<1.20	1.3	<1.24

Constituents With Levels Above TAGM 4046 Values

SB - Site Background

-- Not Analyzed

Table 6
Background Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background					
Sample Location	**Unrestricted Use Screening Value TAGM 4046 (mg/kg)**	**FI**	**FI**	**FJ**	**FJ**	**FJ**	**FJ**
Sample Depth (ft.)		**11-13**	**17-19**	**1-3**	**3-5**	**7-9**	**9-11**
Saturation (Sat/Unsat)		**S**	**S**	**U**	**U**	**S**	**S**
TAL Inorganics (mg/kg)							
Aluminum	SB	5950	7840	8670	7180	7740	5710
Antimony	SB	14.2	<6.80	<7.39	<6.30	<7.28	<7.83
Arsenic	7.5 or SB	5.27	<1.13	<1.23	<1.05	<1.21	<1.31
Barium	300 or SB	1690	113	28.7	9.85	11.2	12.7
Beryllium	0.16 or SB	<0.571	<0.567	<0.616	<0.525	<0.607	<0.653
Cadmium	1 or SB	<0.571	<0.567	<0.616	<0.525	<0.607	<0.653
Calcium	SB	3780	2550	6160	1660	1100	51600
Chromium	10 or SB	40	24.8	12.7	10.5	10.8	9.59
Cobalt	30 or SB	8.39	9.08	6.92	6.44	6.14	<6.53
Copper	25 or SB	33.2	20.6	12.5	9.77	13.4	9.3
Iron	2000 or SB	12800	15300	17400	15300	16400	12700
Lead	500 (Urban) or SB	1120	118	10.5	3.99	6.5	5.14
Magnesium	SB	4720	4380	4750	4480	4430	13800
Manganese	SB	270	272	228	172	160	247
Mercury	0.1	<0.171	<0.170	<0.185	<0.158	<0.182	<0.196
Nickel	13 or SB	27.1	22.1	16.3	15.5	16.9	11.2
Potassium	SB	1700	3400	1340	764	819	741
Selenium	2 or SB	2.45	2.57	2.88	2.58	2.79	2.68
Silver	SB	<1.14	<1.13	<1.23	<1.05	<1.21	<1.31
Sodium	SB	497	632	263	124	330	634
Thallium	SB	<1.14	<1.13	<1.23	<1.05	<1.21	<1.31
Vanadium	150 or SB	17.5	24.3	15.1	11.1	11.8	9.85
Zinc	20 or SB	142	36.1	46.3	37.3	45.1	30.9
Total Cyanide	Site -specific	<1.14	<1.13	<1.23	<1.05	<1.21	<1.31

Constituents With Levels Above TAGM 4046 Values

SB - Site Background

-- Not Analyzed

Table 6
Background Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Fill Area Background					
Sample Location	**Unrestricted Use Screening Value TAGM 4046 (mg/kg)**	**FK**	**FK**	**FK**	**1FL**	**1FL-DUP**	**1FL**
Sample Depth (ft.)		**0.4-2**	**10-12**	**16-18**	**2-4**	**2-4**	**6-8**
Saturation (Sat/Unsat)		**U**	**S**	**S**	**U**	**U**	**S**
TAL Inorganics (mg/kg)							
Aluminum	SB	7880	6360	6960	8280	8050	13300
Antimony	SB	<6.92	<7.40	<7.43	<6.70	<6.75	<8.01
Arsenic	7.5 or SB	<1.15	<1.23	<1.24	<1.12	<1.12	5.45
Barium	300 or SB	16.9	10.5	10.9	18.4	19.8	53.3
Beryllium	0.16 or SB	<0.577	<0.617	<0.619	<0.558	<0.562	<0.668
Cadmium	1 or SB	<0.577	<0.617	<0.619	<0.558	<0.562	<0.668
Calcium	SB	17500	40700	21700	8530	5160	3910
Chromium	10 or SB	10.7	8.67	9.07	11.6	11.8	21.8
Cobalt	30 or SB	6.55	<6.17	<6.19	6.03	5.63	8.97
Copper	25 or SB	26.6	8.56	9.05	12.3	13.2	20.9
Iron	2000 or SB	17700	13700	15100	18600	17700	33700
Lead	500 (Urban) or SB	5.48	3.54	3.71	5.02	8.75	56.3
Magnesium	SB	12500	5420	4110	4690	5070	5360
Manganese	SB	214	196	207	201	178	464
Mercury	0.1	<0.173	<0.185	<0.186	<0.167	<0.169	<0.200
Nickel	13 or SB	14.4	12.9	13.5	14.8	14.6	20.9
Potassium	SB	1030	682	812	988	1130	1590
Selenium	2 or SB	3.27	2.82	3.73	2.95	2.85	7.05
Silver	SB	<1.15	<1.23	<1.24	<1.12	<1.12	<1.34
Sodium	SB	432	546	276	193	183	313
Thallium	SB	<1.15	<1.23	<1.24	<1.12	<1.12	<1.34
Vanadium	150 or SB	15.2	9.57	9.5	18.6	17.2	27.3
Zinc	20 or SB	39.5	29.3	34	40.2	40.4	134
Total Cyanide	Site -specific	<1.15	<1.23	<1.24	<1.12	<1.12	<1.34

Constituents With Levels Above TAGM 4046 Values

SB - Site Background

-- Not Analyzed

Table 6
Background Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Original Ground Pre-1914 Fill & Soil			
Sample Location	**Unrestricted Use Screening Value TAGM 4046 (mg/kg)**	**0GA**	**0GA**	**0GB**	**0GB**
Sample Depth (ft.)		**0-2**	**6-8**	**.5-2.5**	**10-12**
Saturation (Sat/Unsat)		**U**	**U**	**U**	**S**
TAL Inorganics (mg/kg)					
Aluminum	SB	6620	3820	--	--
Antimony	SB	<6.73	<7.10	--	--
Arsenic	7.5 or SB	<1.12	<1.18	--	--
Barium	300 or SB	31.5	38	--	--
Beryllium	0.16 or SB	<0.561	<0.592	--	--
Cadmium	1 or SB	<0.561	<0.592	--	--
Calcium	SB	8190	17000	--	--
Chromium	10 or SB	13.1	7.81	--	--
Cobalt	30 or SB	7.24	<5.92	--	--
Copper	25 or SB	17.6	13.8	--	--
Iron	2000 or SB	13300	7950	--	--
Lead	500 (Urban) or SB	8.06	5.03	--	--
Magnesium	SB	6320	9230	--	--
Manganese	SB	212	190	--	--
Mercury	0.1	<0.168	<0.178	--	--
Nickel	13 or SB	11.6	8.4	--	--
Potassium	SB	2020	1060	--	--
Selenium	2 or SB	2.88	1.61	--	--
Silver	SB	<1.12	<1.18	--	--
Sodium	SB	--	--	--	--
Thallium	SB	<1.12	<1.18	--	--
Vanadium	150 or SB	20.4	10.2	--	--
Zinc	20 or SB	31.4	17.6	--	--
Total Cyanide	Site -specific	<1.12	<1.18	--	--

Constituents With Levels Above TAGM 4046 Values

SB - Site Background

-- Not Analyzed

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Former Village Dump**				
Sample Location	**Unrestricted Use**	**1D1**	**1D1-DUP**	**1J**	**1J-DUP**	**1J-EXT**
Sample Depth (ft)	**Screening Value**	**1-3**	**1-3**	**7-9**	**7-9**	**6-8**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**S**	**S**	**S**
TCL Organics (ug/kg)	**(ug/kg)**					
Acetone (1)	200	28	ND	600	410	93
Benzene	60	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	110	120	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND
Methylene Chloride	100	7.4	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	ND	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND	ND	ND
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	1600	ND	ND
Di-n-Butylphthalate	8100	670	ND	5300	1700	3300
Carbazole	50000	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	ND
Fluorene	50000	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	ND	ND
Pyrene	50000	ND	ND	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND
Total C-PAHs	10000					
Total Semi-VOCS	500000	670		6900	1700	3300

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Former Village Dump**				
Sample Location	**Unrestricted Use**	**1K**	**1K-EXT**	**1K-EXT**	**1L**	**1M**
Sample Depth (ft)	**Screening Value**	**5-7**	**0.5-2**	**6-7**	**7-8**	**7-8**
Saturation (Sat/Unsat)	**TAGM 4046**	**S**	**U**	**S**	**S**	**S**
TCL Organics (ug/kg)	**(ug/kg)**					
Acetone (1)	200	ND	ND	ND	170	170
Benzene	60	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	43	43
Carbon Disulfide	2700	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	22	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	1300	ND	ND
Toluene	1500	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	2000	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Anthracene	50000	ND	1600	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	ND	ND	ND	490
Benzo(a)Pyrene	61 or MDL	ND	ND	ND	ND	490
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND	ND	750
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND	920
Di-n-Butylphthalate	8100	ND	ND	ND	1400	4300
Carbazole	50000	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND	470
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	ND	ND	820
Fluorene	50000	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	3600	ND	ND	ND
Pyrene	50000	ND	ND	ND	ND	820
4,4'-DDE	2100	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND
Total C-PAHs	10000					2200
Total Semi-VOCS	500000		7200		1400	9060

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Former Discarded Drum Pile**			
Sample Location	**Unrestricted Use**	**2C**	**2C**	**2D**	**2D**
Sample Depth (ft)	**Screening Value**	**1-3**	**7-9**	**1-3**	**5-7**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**S**	**U**	**S**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	35	65	42	84
Benzene	60	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	18	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND
Toluene	1500	10	29	9.9	9.1
1,1,1-Trichloroethane	800	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND
Anthracene	50000	460	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	2500	ND	480	ND
Benzo(a)Pyrene	61 or MDL	2600	ND	450	ND
Benzo(b)Fluoranthene	61 or MDL	4200	ND	760	ND
Benzo(g,h,i)Perylene	50000	410	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	2000	ND	ND	ND
Butyl Benzyl Phthalate	50000	860	ND	1800	ND
Di-n-Butylphthalate	8100	4600	3500	3400	4600
Carbazole	50000	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	820	ND	ND	ND
Chrysene	400	2700	ND	540	ND
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND
Dibenzofuran	6200	410	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND
Fluoranthene	50000	3300	ND	740	530
Fluorene	50000	ND	ND	ND	ND
2-Methylnaphthalene	36400	1400	ND	990	1400
Naphthalene	13000	920	ND	680	880
Di-n-Octyl Phthalate	50000	ND	ND	ND	550
Phenanthrene	50000	2000	ND	800	810
Pyrene	50000	3800	ND	960	630
4,4'-DDE	2100	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND
Total C-PAHs	10000	14820		2230	
Total Semi-VOCS	500000	32980	3500	11600	9400

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Former Garage Area**		
Sample Location	**Unrestricted Use**	**3A**	**3A**	**3A**
Sample Depth (ft)	**Screening Value**	**.75-3**	**3-5**	**7-9**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**S**
TCL Organics (ug/kg)	**(ug/kg)**			
Acetone (1)	200	ND	44	ND
Benzene	60	ND	ND	ND
2-Butanone (MEK)	300	ND	21	ND
Carbon Disulfide	2700	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND
2-Hexanone	NA	ND	ND	ND
Methylene Chloride	100	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND
Toluene	1500	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND
Acenaphthene	50000	--	ND	ND
Acenaphthylene	41000	--	ND	ND
Anthracene	50000	--	ND	ND
Benzo(a)Anthracene	224 or MDL	--	ND	ND
Benzo(a)Pyrene	61 or MDL	--	ND	ND
Benzo(b)Fluoranthene	61 or MDL	--	ND	ND
Benzo(g,h,i)Perylene	50000	--	ND	ND
Benzo(k)Fluoranthene	610 or MDL	--	ND	ND
Butyl Benzyl Phthalate	50000	--	ND	ND
Di-n-Butylphthalate	8100	--	ND	ND
Carbazole	50000	--	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	--	ND	ND
Chrysene	400	--	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	--	ND	ND
Dibenzofuran	6200	--	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	--	ND	ND
Fluoranthene	50000	--	ND	ND
Fluorene	50000	--	ND	ND
2-Methylnaphthalene	36400	--	ND	ND
Naphthalene	13000	--	ND	ND
Di-n-Octyl Phthalate	50000	--	ND	ND
Phenanthrene	50000	--	ND	ND
Pyrene	50000	--	ND	ND
4,4'-DDE	2100	--	ND	ND
4,4'-DDT	2100	--	ND	ND
PCB 1254	1000 / 10000 (2)	--	ND	ND
Alpha-BHC	110	--	ND	ND
Total C-PAHs	10000			
Total Semi-VOCS	500000			

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Former Burn Pit Facility**				
Sample Location	**Unrestricted Use**	**4A**	**4A**	**4B**	**4B**	**4C**
Sample Depth (ft)	**Screening Value**	**1-3**	**3-5**	**2-4**	**4-6**	**7-9**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**S**	**U**	**S**	**S**
TCL Organics (ug/kg)	**(ug/kg)**					
Acetone (1)	200	69	52	16	ND	ND
Benzene	60	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	9.6	ND	1800	ND
Acenaphthene	50000	ND	1100	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	620	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	ND	660	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	ND	1000	ND	ND	ND
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	500	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	12000	ND	ND
Di-n-Butylphthalate	8100	7500	3800	6200	ND	620
Carbazole	50000	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	ND
Chrysene	400	ND	770	ND	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	1200	ND	ND
Fluoranthene	50000	ND	1100	ND	ND	ND
Fluorene	50000	ND	730	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	2300
Naphthalene	13000	ND	760	ND	10000	770
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	1300	530	ND	ND
Pyrene	50000	ND	1200	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND
Total C-PAHs	10000		3550			
Total Semi-VOCS	500000	7500	13540	19930	10000	3690

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Internal Rail Spurs Body Plant**			
Sample Location	**Unrestricted Use**	**6A**	**6B**	**6B**	**6C**
Sample Depth (ft)	**Screening Value**	**3.1-5.1**	**1-3**	**3-5**	**0.5-2.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	16
Carbon Disulfide	2700	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	560
Acenaphthylene	41000	ND	390	ND	ND
Anthracene	50000	480	590	420	1500
Benzo(a)Anthracene	224 or MDL	1500	2000	1100	2700
Benzo(a)Pyrene	61 or MDL	1200	2100	1200	2500
Benzo(b)Fluoranthene	61 or MDL	2000	2700	2000	3600
Benzo(g,h,i)Perylene	50000	400	820	500	710
Benzo(k)Fluoranthene	610 or MDL	840	1200	850	2000
Butyl Benzyl Phthalate	50000	1200	3900	1600	3800
Di-n-Butylphthalate	8100	430	420	ND	500
Carbazole	50000	ND	ND	ND	730
Indeno(1,2,3,-cd)Pyrene	3200	420	770	470	730
Chrysene	400	1700	2100	1200	3400
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	540
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	370	ND
Fluoranthene	50000	3500	2800	2200	5900
Fluorene	50000	ND	ND	ND	620
2-Methylnaphthalene	36400	ND	ND	ND	820
Naphthalene	13000	ND	ND	ND	810
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND
Phenanthrene	50000	1900	1500	1200	5100
Pyrene	50000	3200	3100	2200	5600
4,4'-DDE	2100	ND	ND	ND	21
4,4'-DDT	2100	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND
Total C-PAHs	10000	7660	10870	6820	14930
Total Semi-VOCS	500000	18770	24390	15310	42120

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Internal Rail Spurs Body Plant**		
Sample Location	**Unrestricted Use**	**6C**	**6D**	**6D**
Sample Depth (ft)	**Screening Value**	**6-8**	**1-3**	**3-5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**			
Acetone (1)	200	18	20	15
Benzene	60	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND
2-Hexanone	NA	ND	ND	ND
Methylene Chloride	100	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND
Toluene	1500	17	11	11
1,1,1-Trichloroethane	800	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND
Acenaphthene	50000	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND
Anthracene	50000	500	ND	540
Benzo(a)Anthracene	224 or MDL	990	ND	8100
Benzo(a)Pyrene	61 or MDL	670	ND	8100
Benzo(b)Fluoranthene	61 or MDL	1200	ND	11000
Benzo(g,h,i)Perylene	50000	ND	ND	2600
Benzo(k)Fluoranthene	610 or MDL	890	ND	11000
Butyl Benzyl Phthalate	50000	ND	770	890
Di-n-Butylphthalate	8100	550	360	380
Carbazole	50000	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	2700
Chrysene	400	1200	ND	9400
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	1300
Dibenzofuran	6200	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	390
Fluoranthene	50000	2200	ND	6500
Fluorene	50000	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	940
Naphthalene	13000	490	ND	650
Di-n-Octyl Phthalate	50000	ND	ND	ND
Phenanthrene	50000	2400	ND	1800
Pyrene	50000	2200	ND	9500
4,4'-DDE	2100	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND
Alpha-BHC	110	ND	ND	ND
Total C-PAHs	10000	4950		51600
Total Semi-VOCS	500000	13290	1130	75790

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		Basement Welding Area Body Plant				
Sample Location	**Unrestricted Use**	**7A**	**7B**	**7B**	**7C**	**7C**
Sample Depth (ft)	**Screening Value**	**0-0.5**	**0-0.5**	**3-3.5**	**0-0.5**	**1-1.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**U**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**					
Acetone (1)	200	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND
Toluene	1500	ND	6.4	ND	6.3	10
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND
Anthracene	50000	470	ND	ND	5500	ND
Benzo(a)Anthracene	224 or MDL	2800	ND	ND	14000	ND
Benzo(a)Pyrene	61 or MDL	2700	ND	ND	16000	ND
Benzo(b)Fluoranthene	61 or MDL	4300	ND	ND	26000	6900
Benzo(g,h,i)Perylene	50000	1600	ND	ND	9300	ND
Benzo(k)Fluoranthene	610 or MDL	1600	ND	ND	9900	ND
Butyl Benzyl Phthalate	50000	19000	3200	700	83000	71000
Di-n-Butylphthalate	8100	1700	390	ND	5800	6800
Carbazole	50000	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	1300	ND	ND	8200	ND
Chrysene	400	2900	ND	ND	17000	4800
Dibenzo(a.h)Anthracene	14 or MDL	460	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	1100	1200	990	8500	5400
Fluoranthene	50000	3800	ND	ND	28000	8500
Fluorene	50000	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND
Phenanthrene	50000	1700	ND	ND	20000	4100
Pyrene	50000	4300	ND	ND	30000	8800
4,4'-DDE	2100	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND
Total C-PAHs	10000	16060			91100	11700
Total Semi-VOCS	500000	49730	4790	1690	281200	116300

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		ELPO Area Wastewater Leak Body Plant	Column E2X Wastewater Leak Body Plant	
Sample Location	**Unrestricted Use**	**8A**	**9A**	**9A DUP**
Sample Depth (ft)	**Screening Value**	**0-0.5**	**0-0.5**	**0-0.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**			
Acetone (1)	200	ND	ND	ND
Benzene	60	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND
Ethylbenzene	5500	ND	ND	6.6
2-Hexanone	NA	ND	ND	ND
Methylene Chloride	100	ND	ND	28
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND
Toluene	1500	ND	ND	15
1,1,1-Trichloroethane	800	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	6.4
Acenaphthene	50000	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND
Anthracene	50000	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND
Benzo(g,h,i)Perylene	50000	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	480000	490000
Di-n-Butylphthalate	8100	ND	ND	ND
Carbazole	50000	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND
Chrysene	400	ND	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	20000	ND	ND
Fluoranthene	50000	ND	ND	ND
Fluorene	50000	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND
Naphthalene	13000	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND
Phenanthrene	50000	ND	ND	ND
Pyrene	50000	ND	ND	ND
4,4'-DDE	2100	ND	ND	ND
4,4'-DDT	2100	ND	67	35
PCB 1254	1000 / 10000 (2)	ND	ND	ND
Alpha-BHC	110	ND	ND	ND
Total C-PAHs	10000			
Total Semi-VOCS	500000	20000	480000	490000

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		Remote Fill Port Location Body Plant		Basement Conveyor System Body Plant	
Sample Location	**Unrestricted Use**	**10A**	**10A**	**11A**	**11A**
Sample Depth (ft)	**Screening Value**	**1-3**	**9-11**	**0-0.5**	**5-5.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**S**	**U**	**S**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	--	--	ND	ND
Benzene	60	--	--	ND	ND
2-Butanone (MEK)	300	--	--	ND	ND
Carbon Disulfide	2700	--	--	ND	ND
Ethylbenzene	5500	--	--	ND	ND
2-Hexanone	NA	--	--	90	ND
Methylene Chloride	100	--	--	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	--	--	24	ND
1,1,2,2-Tetrachloroethane	600	--	--	ND	ND
Toluene	1500	--	--	ND	ND
1,1,1-Trichloroethane	800	--	--	ND	ND
o-Xylene	1200 (total xylenes)	--	--	ND	ND
m+p-Xylene	1200 (total xylenes)	--	--	ND	ND
Acenaphthene	50000	--	--	ND	ND
Acenaphthylene	41000	--	--	ND	ND
Anthracene	50000	--	--	ND	ND
Benzo(a)Anthracene	224 or MDL	--	--	ND	ND
Benzo(a)Pyrene	61 or MDL	--	--	ND	ND
Benzo(b)Fluoranthene	61 or MDL	--	--	ND	ND
Benzo(g,h,i)Perylene	50000	--	--	ND	ND
Benzo(k)Fluoranthene	610 or MDL	--	--	ND	ND
Butyl Benzyl Phthalate	50000	--	--	ND	ND
Di-n-Butylphthalate	8100	--	--	ND	ND
Carbazole	50000	--	--	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	--	--	ND	ND
Chrysene	400	--	--	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	--	--	ND	ND
Dibenzofuran	6200	--	--	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	--	--	ND	ND
Fluoranthene	50000	--	--	ND	ND
Fluorene	50000	--	--	ND	ND
2-Methylnaphthalene	36400	--	--	ND	ND
Naphthalene	13000	--	--	ND	ND
Di-n-Octyl Phthalate	50000	--	--	ND	ND
Phenanthrene	50000	--	--	ND	ND
Pyrene	50000	--	--	ND	ND
4,4'-DDE	2100	--	--	ND	ND
4,4'-DDT	2100	--	--	ND	ND
PCB 1254	1000 / 10000 (2)	--	--	ND	ND
Alpha-BHC	110	--	--	240	ND
Total C-PAHs	10000				
Total Semi-VOCS	500000				

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**North Basement Chassis Plant**			
Sample Location	**Unrestricted Use**	**12A**	**12A**	**12A**	**12B**
Sample Depth (ft)	**Screening Value**	**0-0.5**	**3.5-4**	**5.5-6**	**0-0.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**S**	**U**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	57	ND	120	44
Benzene	60	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	1400	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	760	ND	ND
Acenaphthene	50000	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	ND	ND	ND	32000
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND	50000
Benzo(g,h,i)Perylene	50000	ND	ND	ND	52000
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND
Di-n-Butylphthalate	8100	ND	ND	ND	ND
Carbazole	50000	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	30000
Chrysene	400	ND	ND	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND
Fluoranthene	50000	46000	38000	6000	42000
Fluorene	50000	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND
Phenanthrene	50000	88000	39000	5700	ND
Pyrene	50000	44000	38000	4900	38000
4,4'-DDE	2100	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND
Total C-PAHs	10000				112000
Total Semi-VOCS	500000	178000	115000	16600	244000

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		North Basement Chassis Plant		
Sample Location	**Unrestricted Use**	**12B**	**12C**	**12C**
Sample Depth (ft)	**Screening Value**	**2.5-3**	**0-0.5**	**2-2.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**S**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**			
Acetone (1)	200	33	ND	40
Benzene	60	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND
Ethylbenzene	5500	ND	ND	7.4
2-Hexanone	NA	ND	ND	ND
Methylene Chloride	100	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND
Toluene	1500	ND	ND	29
1,1,1-Trichloroethane	800	ND	ND	22
o-Xylene	1200 (total xylenes)	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	6.7
Acenaphthene	50000	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND
Anthracene	50000	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	38000	ND
Benzo(a)Pyrene	61 or MDL	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	ND	38000	ND
Benzo(g,h,i)Perylene	50000	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND
Di-n-Butylphthalate	8100	ND	ND	ND
Carbazole	50000	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND
Chrysene	400	ND	44000	28000
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND
Fluoranthene	50000	ND	100000	71000
Fluorene	50000	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND
Naphthalene	13000	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND
Phenanthrene	50000	ND	120000	72000
Pyrene	50000	ND	94000	69000
4,4'-DDE	2100	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND
Alpha-BHC	110	ND	ND	ND
Total C-PAHs	10000		120000	28000
Total Semi-VOCS	500000		434000	240000

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		**M12 Hydraulic Elevator Chassis Plant**			
Sample Location	**Unrestricted Use**	**13A**	**13A**	**13B**	**13B**
Sample Depth (ft)	**Screening Value**	**0-0.5**	**5-5.5**	**0-0.5**	**3-3.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**S**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND
Acenaphthene	50000	ND	770	ND	ND
Acenaphthylene	41000	1800	1200	ND	ND
Anthracene	50000	2400	2700	ND	ND
Benzo(a)Anthracene	224 or MDL	5400	4800	ND	ND
Benzo(a)Pyrene	61 or MDL	4300	3600	ND	ND
Benzo(b)Fluoranthene	61 or MDL	6200	4800	ND	ND
Benzo(g,h,i)Perylene	50000	1900	1600	ND	ND
Benzo(k)Fluoranthene	610 or MDL	2800	1800	ND	ND
Butyl Benzyl Phthalate	50000	750	ND	ND	ND
Di-n-Butylphthalate	8100	ND	ND	ND	ND
Carbazole	50000	590	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	2000	1500	ND	ND
Chrysene	400	5700	4700	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	750	620	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND
Fluoranthene	50000	7300	7100	ND	ND
Fluorene	50000	690	1800	ND	ND
2-Methylnaphthalene	36400	ND	1100	ND	ND
Naphthalene	13000	ND	730	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND
Phenanthrene	50000	5400	6700	ND	ND
Pyrene	50000	7800	7300	ND	ND
4,4'-DDE	2100	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND
Total C-PAHs	10000	27150	21820		
Total Semi-VOCS	500000	55780	52820		

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		Central Rail Spur Chassis Plant					
Sample Location	**Unrestricted Use**	**15A**	**15A**	**15B**	**15B**	**15C**	**15C**
Sample Depth (ft)	**Screening Value**	**1-3**	**3-5**	**1.6-3.6**	**3.6-5.6**	**0-2**	**2-4**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**U**	**U**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**						
Acetone (1)	200	ND	14	ND	ND	13	ND
Benzene	60	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	12	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND	ND	490
Acenaphthylene	41000	ND	ND	ND	ND	560	ND
Anthracene	50000	ND	ND	370	ND	1000	460
Benzo(a)Anthracene	224 or MDL	ND	ND	540	ND	3100	690
Benzo(a)Pyrene	61 or MDL	ND	ND	350	ND	3100	610
Benzo(b)Fluoranthene	61 or MDL	ND	ND	710	ND	4100	1300
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND	900	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	370	ND	3400	1200
Butyl Benzyl Phthalate	50000	500	ND	1100	ND	4500	ND
Di-n-Butylphthalate	8100	ND	ND	370	ND	340	ND
Carbazole	50000	ND	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND	930	ND
Chrysene	400	ND	ND	680	ND	3500	920
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND	340	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	760
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	900	1300
Fluoranthene	50000	390	ND	1800	ND	4100	2500
Fluorene	50000	ND	ND	ND	ND	350	640
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	380
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	380	ND	1400	ND	1900	3100
Pyrene	50000	ND	ND	2100	ND	6200	2500
4,4'-DDE	2100	ND	ND	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND	ND	ND
Total C-PAHs	10000			2650		18470	4720
Total Semi-VOCS	500000	1270		9790		39220	16850

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		Paint Tote and Central Sludge Chassis Plant			
Sample Location	**Unrestricted Use**	**16A**	**16B**	**16B**	**16B**
Sample Depth (ft)	**Screening Value**	**5-5.5**	**0-.5**	**2-2.5**	**4.1-4.6**
Saturation (Sat/Unsat)	**TAGM 4046**	**S**	**U**	**U**	**S**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	9.3
2-Hexanone	NA	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	21
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	20
Acenaphthene	50000	ND	--	--	--
Acenaphthylene	41000	ND	--	--	--
Anthracene	50000	ND	--	--	--
Benzo(a)Anthracene	224 or MDL	ND	--	--	--
Benzo(a)Pyrene	61 or MDL	ND	--	--	--
Benzo(b)Fluoranthene	61 or MDL	ND	--	--	--
Benzo(g,h,i)Perylene	50000	ND	--	--	--
Benzo(k)Fluoranthene	610 or MDL	ND	--	--	--
Butyl Benzyl Phthalate	50000	ND	--	--	--
Di-n-Butylphthalate	8100	550	--	--	--
Carbazole	50000	ND	--	--	--
Indeno(1,2,3,-cd)Pyrene	3200	ND	--	--	--
Chrysene	400	ND	--	--	--
Dibenzo(a.h)Anthracene	14 or MDL	ND	--	--	--
Dibenzofuran	6200	ND	--	--	--
Bis(2-Ethylhexyl)Phthalate	50000	690	--	--	--
Fluoranthene	50000	920	--	--	--
Fluorene	50000	ND	--	--	--
2-Methylnaphthalene	36400	ND	--	--	--
Naphthalene	13000	ND	--	--	--
Di-n-Octyl Phthalate	50000	ND	--	--	--
Phenanthrene	50000	ND	--	--	--
Pyrene	50000	800	--	--	--
4,4'-DDE	2100	ND	--	--	--
4,4'-DDT	2100	ND	--	--	--
PCB 1254	1000 / 10000 (2)	ND	--	--	--
Alpha-BHC	110	ND	--	--	--
Total C-PAHs	10000				
Total Semi-VOCS	500000	2960			

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		Basement Conveyor System Chassis Plant		Column Q5 Wastewater Leak Chassis Plant	
Sample Location	**Unrestricted Use**	**17A**	**17A**	**18A**	**18A-Dup**
Sample Depth (ft)	**Screening Value**	**0-0.5**	**4-4.5**	**0-0.5**	**0-0.5**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**U**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	ND	29	12	ND
Benzene	60	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	ND	500	1000
Benzo(a)Pyrene	61 or MDL	ND	ND	450	790
Benzo(b)Fluoranthene	61 or MDL	ND	ND	820	1300
Benzo(g,h,i)Perylene	50000	ND	ND	ND	690
Benzo(k)Fluoranthene	610 or MDL	ND	ND	380	500
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND
Di-n-Butylphthalate	8100	ND	4300B	ND	ND
Carbazole	50000	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	560
Chrysene	400	ND	ND	580	1100
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND
Fluoranthene	50000	ND	ND	850	2000
Fluorene	50000	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	730
Pyrene	50000	ND	ND	730	1500
4,4'-DDE	2100	ND	ND	ND	ND
4,4'-DDT	2100	ND	ND	ND	ND
PCB 1254	1000 / 10000 (2)	ND	ND	ND	ND
Alpha-BHC	110	ND	ND	ND	ND
Total C-PAHs	10000			2730	5250
Total Semi-VOCS	500000			4310	10170

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 7
Phase II Sample Locations
Organic Compound Analyses and TAGM Screening Values
FormerTarrytown Assembly Plant

Phase II ESI Sampling Area Description		Column M23 Hydraulic Leak Chassis Plant		Column T20 Hydraulic Leak Chassis Plant	
Sample Location	**Unrestricted Use**	**19A**	**19A**	**20A**	**20A**
Sample Depth (ft)	**Screening Value**	**0-0.5**	**4-4.5**	**0-0.5**	**0.5-1.0**
Saturation (Sat/Unsat)	**TAGM 4046**	**U**	**S**	**U**	**U**
TCL Organics (ug/kg)	**(ug/kg)**				
Acetone (1)	200	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND
2-Butanone (MEK)	300	ND	ND	ND	ND
Carbon Disulfide	2700	ND	ND	ND	ND
Ethylbenzene	5500	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND
Methylene Chloride	100	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND
Toluene	1500	6.7	37	ND	7.6
1,1,1-Trichloroethane	800	ND	ND	ND	ND
o-Xylene	1200 (total xylenes)	ND	ND	ND	ND
m+p-Xylene	1200 (total xylenes)	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	ND
Benzo(a)Anthracene	224 or MDL	ND	ND	ND	ND
Benzo(a)Pyrene	61 or MDL	ND	ND	ND	ND
Benzo(b)Fluoranthene	61 or MDL	ND	ND	ND	1800
Benzo(g,h,i)Perylene	50000	ND	ND	ND	ND
Benzo(k)Fluoranthene	610 or MDL	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND
Di-n-Butylphthalate	8100	ND	ND	ND	ND
Carbazole	50000	ND	ND	ND	ND
Indeno(1,2,3,-cd)Pyrene	3200	ND	ND	ND	ND
Chrysene	400	ND	ND	ND	ND
Dibenzo(a.h)Anthracene	14 or MDL	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	14000	2600
Fluoranthene	50000	ND	ND	ND	2400
Fluorene	50000	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND
Di-n-Octyl Phthalate	50000	ND	ND	ND	ND
Phenanthrene	50000	ND	ND	ND	1800
Pyrene	50000	ND	ND	ND	2300
4,4'-DDE	2100	230	20	--	--
4,4'-DDT	2100	ND	ND	--	--
PCB 1254	1000 / 10000 (2)	9900	830	ND	ND
Alpha-BHC	110	ND	ND	--	--
Total C-PAHs	10000				
Total Semi-VOCS	500000			14000	10900

Constituents With Levels Above TAGM 4046 Values

(1) Acetone attributable to laboratory artifact

(2) Total PCB Values for Surface/Subsurface

-- Not Analyzed

ND - Not Detected

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Former Village Dump				
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**1D1**	**1D1-DUP**	**1J**	**1J-DUP**	**1J-EXT**
Sample Depth (ft.)		**1-3**	**1-3**	**7-9**	**7-9**	**6-8**
Saturation (Sat/Unsat)		**U**	**U**	**S**	**S**	**S**
TAL Inorganics (mg/kg)	**(mg/kg)**					
Aluminum	SB	8240	7960	4280	4440	3760
Antimony	SB	<6.86	<6.81	<11.5	<11.8	<12.5
Arsenic	7.5 or SB	<1.14	<1.14	11.5	17.7	19.4
Barium	300 or SB	31	16	204	274	137
Beryllium	0.16 or SB	<0.571	<0.568	<0.954	<0.984	<1.04
Cadmium	1 or SB	<0.571	<0.568	<0.954	<0.984	2.96
Calcium	SB	2500	1680	4890	7490	13800
Chromium	10 or SB	12.5	12.6	33.5	41.6	697
Cobalt	30 or SB	7.18	6.21	<9.54	10.1	<10.4
Copper	25 or SB	18.4	12.4	148	217	100
Iron	2000 or SB	19500	17700	163000	192000	223000
Lead	500 (Urban) or SB	8.04	6.18	43500	1270	310
Magnesium	SB	4490	4200	964	995	1010
Manganese	SB	215	175	545	1000	1900
Mercury	0.1	<0.171	<0.170	0.762	0.999	0.417
Nickel	13 or SB	16.5	16.2	33.9	41.6	26.7
Potassium	SB	1210	954	451	478	270
Selenium	2 or SB	4.01	4.25	33.6	43.8	49.7
Silver	SB	<1.14	<1.14	3.6	2.34	2.58
Sodium	SB	--	117	161	405	<1.04
Thallium	SB	<1.14	<1.14	<1.91	<1.97	<2.09
Vandium	150 or SB	25.1	12.8	24.4	28	29.9
Zinc	20 or SB	47.9	43.4	374	377	1000
Total Cyanide	Site -specific	<1.14	<1.14	3.99	<1.97	<2.09

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Former Village dump**				
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**1K**	**1K-EXT**	**1K-EXT**	**1L**	**1M**
Sample Depth (ft.)		**5-7**	**0.5-2**	**6-7**	**7-8**	**7-8**
Saturation (Sat/Unsat)		**S**	**U**	**S**	**S**	**S**
TAL Inorganics (mg/kg)	**(mg/kg)**					
Aluminum	SB	6780	9900	7600	9380	9450
Antimony	SB	<8.50	<7.80	<8.45	<8.36	<8.36
Arsenic	7.5 or SB	4.68	<1.30	4.1	6.1	15.5
Barium	300 or SB	104	36.5	115	226	177
Beryllium	0.16 or SB	<0.708	<0.650	<0.704	<0.696	<0.696
Cadmium	1 or SB	<0.708	<0.650	<0.704	<0.696	<0.696
Calcium	SB	1970	10200	2610	6640	4760
Chromium	10 or SB	13.8	12.8	16.5	13.5	17.8
Cobalt	30 or SB	8.16	<6.50	7.86	7.88	7.2
Copper	25 or SB	37.6	11.5	71.1	44.6	44.6
Iron	2000 or SB	9270	20100	14000	24200	21300
Lead	500 (Urban) or SB	138	4.85	245	307	300
Magnesium	SB	1160	5800	2180	1500	3590
Manganese	SB	92.7	205	153	189	211
Mercury	0.1	<0.212	<0.195	2.12	0.466	0.28
Nickel	13 or SB	15.8	17.7	17.8	20.5	16.5
Potassium	SB	902	1320	1090	1570	1330
Selenium	2 or SB	3.04	4.72	3.8	7.57	5.54
Silver	SB	<1.42	<1.30	<1.41	<1.39	<1.39
Sodium	SB	364	318	431	338	441
Thallium	SB	<1.42	<1.30	<1.41	<1.39	<1.39
Vandium	150 or SB	24.8	13.5	27.7	39.8	25.7
Zinc	20 or SB	119	45.6	136	283	214
Total Cyanide	Site -specific	<1.42	<1.30	<1.41	2.06	<1.39

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Former Discarded Drum Pile			
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**2C**	**2C**	**2D**	**2D**
Sample Depth (ft.)		**1-3**	**7-9**	**1-3**	**5-7**
Saturation (Sat/Unsat)		**U**	**S**	**U**	**S**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	5630	3250	2290	2870
Antimony	SB	<7.04	<7.67	<6.87	<7.50
Arsenic	7.5 or SB	2.54	7.08	3.81	6.91
Barium	300 or SB	250	81.3	80.6	90.3
Beryllium	0.16 or SB	<0.587	<0.639	<0.573	<0.625
Cadmium	1 or SB	0.588	<0.639	<0.573	<0.625
Calcium	SB	154000	15200	91000	11000
Chromium	10 or SB	24.4	11	16	12.9
Cobalt	30 or SB	<5.87	<6.39	<5.73	<6.25
Copper	25 or SB	19.2	16.7	18	26.9
Iron	2000 or SB	9000	64100	10400	18000
Lead	500 (Urban) or SB	233	43	167	159
Magnesium	SB	54100	1830	46300	2450
Manganese	SB	235	320	144	57.6
Mercury	0.1	<0.176	<0.192	<0.172	<0.188
Nickel	13 or SB	21.8	13.3	17.8	10.3
Potassium	SB	1090	458	522	474
Selenium	2 or SB	1.27	10.3	1.99	2.93
Silver	SB	<1.17	<1.28	<1.15	<1.25
Sodium	SB	714	584	80.3	460
Thallium	SB	<1.17	<1.28	<1.15	<1.25
Vandium	150 or SB	26.9	16.4	13.8	14.8
Zinc	20 or SB	187	44.2	115	108
Total Cyanide	Site -specific	<1.17	<1.28	<1.15	<1.25

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Former Garage Area		
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**3A**	**3A**	**3A**
Sample Depth (ft.)		**.75-3**	**3-5**	**7-9**
Saturation (Sat/Unsat)		**U**	**U**	**S**
TAL Inorganics (mg/kg)	**(mg/kg)**			
Aluminum	SB	--	4410	7030
Antimony	SB	--	<7.12	<7.36
Arsenic	7.5 or SB	--	6.51	<1.23
Barium	300 or SB	--	63.4	54.2
Beryllium	0.16 or SB	--	<0.593	<0.613
Cadmium	1 or SB	--	<0.593	<0.613
Calcium	SB	--	41600	4700
Chromium	10 or SB	--	15.6	15.3
Cobalt	30 or SB	--	7.48	7.12
Copper	25 or SB	--	27.4	14.5
Iron	2000 or SB	--	25700	14500
Lead	500 (Urban) or SB	--	68.9	6.95
Magnesium	SB	--	13400	4560
Manganese	SB	--	123	144
Mercury	0.1	--	<0.178	<0.184
Nickel	13 or SB	--	14.8	12.2
Potassium	SB	--	573	1830
Selenium	2 or SB	--	4.79	2.15
Silver	SB	--	<1.19	<1.23
Sodium	SB	--	474	786
Thallium	SB	--	<1.19	<1.23
Vandium	150 or SB	--	19.3	18.7
Zinc	20 or SB	--	61	29.8
Total Cyanide	Site -specific	--	<1.19	<1.23

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Former Burn Pit Facility				
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**4A**	**4A**	**4B**	**4B**	**4C**
Sample Depth (ft.)		**1-3**	**3-5**	**2-4**	**4-6**	**7-9**
Saturation (Sat/Unsat)		**U**	**S**	**U**	**S**	**S**
TAL Inorganics (mg/kg)	**(mg/kg)**					
Aluminum	SB	4230	4240	2250	8480	9600
Antimony	SB	74.1	<7.86	<7.28	132	<11.3
Arsenic	7.5 or SB	22.3	11.8	8.67	13	9.81
Barium	300 or SB	3560	377	1600	2100	1350
Beryllium	0.16 or SB	<0.571	<0.655	<0.607	<.629	<0.940
Cadmium	1 or SB	1.73	4.18	0.919	14.4	<0.940
Calcium	SB	67300	11500	19700	17200	5830
Chromium	10 or SB	159	36.9	17.4	297	25.7
Cobalt	30 or SB	12.4	7.64	<6.07	15.4	15
Copper	25 or SB	61.7	72.8	37.7	244	56.3
Iron	2000 or SB	21700	--	9640	--	30700
Lead	500 (Urban) or SB	2770	206	182	3640	772
Magnesium	SB	33300	2080	3220	6770	4490
Manganese	SB	198	281	54.3	441	211
Mercury	0.1	0.186	<.197	0.228	<0.189	<0.282
Nickel	13 or SB	24.9	17.1	18.2	49.8	24.6
Potassium	SB	517	653	224	4250	1690
Selenium	2 or SB	3.5	7.14	4.12	16.7	6.4
Silver	SB	1.25	<1.31	<1.21	1.6	<1.88
Sodium	SB	2030	--	--	--	--
Thallium	SB	<1.14	<1.31	<1.21	<1.26	<1.88
Vandium	150 or SB	29.6	20.3	17	38	26.9
Zinc	20 or SB	1130	349	482	--	366
Total Cyanide	Site -specific	<1.14	<1.31	<1.21	5.52	<1.88

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Internal Rail Spurs Body Plant			
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**6A**	**6B**	**6B**	**6C**
Sample Depth (ft.)		**3.1-5.1**	**1-3**	**3-5**	**0.5-2.5**
Saturation (Sat/Unsat)		**U**	**U**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	5380	5810	9280	2510
Antimony	SB	<6.43	<6.57	<6.24	<6.76
Arsenic	7.5 or SB	2.21	2.46	<1.04	8.42
Barium	300 or SB	76.3	480	206	55.6
Beryllium	0.16 or SB	<0.536	<0.548	<0.520	<0.564
Cadmium	1 or SB	<0.536	<0.548	<0.520	<0.564
Calcium	SB	5660	42700	34200	109000
Chromium	10 or SB	12.2	20.3	16.7	23.6
Cobalt	30 or SB	6.2	6.45	10.6	<5.64
Copper	25 or SB	55.8	380	107	58.6
Iron	2000 or SB	16900	16600	--	33100
Lead	500 (Urban) or SB	72.9	279	203	131
Magnesium	SB	3010	19500	16800	2270
Manganese	SB	120	205	193	133
Mercury	0.1	<0.161	<0.164	<0.156	0.204
Nickel	13 or SB	7.96	17.6	17	48.7
Potassium	SB	729	938	757	553
Selenium	2 or SB	3.25	3.95	5.86	8.76
Silver	SB	<1.07	<1.10	<1.04	<1.13
Sodium	SB	--	--	--	276
Thallium	SB	<1.07	<1.10	<1.04	<1.13
Vandium	150 or SB	15.6	25.7	50.7	10.8
Zinc	20 or SB	92.9	249	134	44.6
Total Cyanide	Site -specific	<1.07	<1.10	<1.04	<1.13

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Internal Rail Spurs Body Plant**		
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**6C**	**6D**	**6D**
Sample Depth (ft.)		**6-8**	**1-3**	**3-5**
Saturation (Sat/Unsat)		**U**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**			
Aluminum	SB	1610	1980	1580
Antimony	SB	<7.21	<6.62	<6.85
Arsenic	7.5 or SB	10.2	5.34	8.53
Barium	300 or SB	181	54.2	47.2
Beryllium	0.16 or SB	<0.601	0.566	<0.571
Cadmium	1 or SB	<0.601	<0.551	<0.571
Calcium	SB	7540	15900	2150
Chromium	10 or SB	8.23	9.12	6.85
Cobalt	30 or SB	<6.01	<5.51	<5.71
Copper	25 or SB	35.6	27.5	22.9
Iron	2000 or SB	17500	13400	12800
Lead	500 (Urban) or SB	138	34	85.2
Magnesium	SB	558	1220	192
Manganese	SB	32	63.9	31.7
Mercury	0.1	0.835	0.173	<0.171
Nickel	13 or SB	8.6	9.35	9.49
Potassium	SB	683	466	296
Selenium	2 or SB	3.34	3.87	2.31
Silver	SB	<1.20	<1.10	<1.14
Sodium	SB	--	--	98.5
Thallium	SB	<1.20	<1.10	<1.14
Vandium	150 or SB	11	11.6	10.3
Zinc	20 or SB	26.8	29.7	84.1
Total Cyanide	Site -specific	1.84	<1.10	<1.14

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Basement Welding Area Body Plant				
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**7A**	**7B**	**7B**	**7C**	**7C**
Sample Depth (ft.)		**0-0.5**	**0-0.5**	**3-3.5**	**0-0.5**	**1-1.5**
Saturation (Sat/Unsat)		**U**	**U**	**U**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**					
Aluminum	SB	7280	7640	8190	8780	9020
Antimony	SB	25.5	<1.08	<1.10	117	166
Arsenic	7.5 or SB	11.8	<1.08	2.1	36.5	49.7
Barium	300 or SB	510	77.4	65.5	4390	5550
Beryllium	0.16 or SB	<0.561	<0.541	<0.549	<0.601	<0.609
Cadmium	1 or SB	5.24	<0.541	<0.549	19.8	35.1
Calcium	SB	8140	1620	1810	32600	32200
Chromium	10 or SB	91.7	24.9	17.1	398	286
Cobalt	30 or SB	8.61	5.52	6.72	10.8	12.3
Copper	25 or SB	225	121	97.9	843	10200
Iron	2000 or SB	28200	24600	20300	73200	137000
Lead	500 (Urban) or SB	2760	85.1	100	7100	9420
Magnesium	SB	5830	4030	4460	11100	4620
Manganese	SB	313	178	216	615	996
Mercury	0.1	0.653	<0.162	<0.165	0.901	1.47
Nickel	13 or SB	111	14.9	16.9	146	70.1
Potassium	SB	841	957	998	1290	1250
Selenium	2 or SB	<0.561	<0.541	<0.549	8.72	11.3
Silver	SB	<1.12	<1.08	<1.10	1.55	3.79
Sodium	SB	<56.1	80.4	85.7	273	1080
Thallium	SB	<1.12	<1.08	<1.10	<1.20	<1.22
Vandium	150 or SB	83.6	14.1	16	227	60.8
Zinc	20 or SB	609	335	159	3040	10000
Total Cyanide	Site -specific	<1.12	<1.08	<1.10	2.81	<1.22

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		ELPO Area Wastewater Leak Body Plant	Column E2X Wastewater Leak Body Plant	
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**8A**	**9A**	**9A DUP**
Sample Depth (ft.)		**0-0.5**	**0-0.5**	**0-0.5**
Saturation (Sat/Unsat)		**U**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**			
Aluminum	SB	5890	12100	11900
Antimony	SB	1.87	33.4	15.3
Arsenic	7.5 or SB	<1.57	9.94	4.5
Barium	300 or SB	414	8640	10000
Beryllium	0.16 or SB	<0.787	<0.517	<0.513
Cadmium	1 or SB	<0.787	1.09	1.18
Calcium	SB	2340	12100	12000
Chromium	10 or SB	427	552	320
Cobalt	30 or SB	<7.87	8.73	8.59
Copper	25 or SB	125	640	572
Iron	2000 or SB	25400	22700	30900
Lead	500 (Urban) or SB	528	5110	2090
Magnesium	SB	2890	3330	3140
Manganese	SB	3030	212	176
Mercury	0.1	<0.236	0.208	<0.154
Nickel	13 or SB	1870	259	259
Potassium	SB	895	5210	5300
Selenium	2 or SB	<0.787	<0.517	<0.513
Silver	SB	<1.57	<1.03	<1.03
Sodium	SB	876	5500	6570
Thallium	SB	<1.57	<1.03	<1.03
Vandium	150 or SB	9.35	12.5	13.3
Zinc	20 or SB	13400	4990	4320
Total Cyanide	Site -specific	<1.57	<1.03	<1.03

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Remote Fill Port Location Body Plant		Basement Conveyor System Body Plant	
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**10A**	**10A**	**11A**	**11A**
Sample Depth (ft.)		**1-3**	**9-11**	**0-0.5**	**5-5.5**
Saturation (Sat/Unsat)		**U**	**S**	**U**	**S**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	7050	6800	7550	7740
Antimony	SB	<6.57	<7.29	15.3	<1.16
Arsenic	7.5 or SB	2.56	<1.22	2.04	<1.16
Barium	300 or SB	51.7	14.9	18	13.6
Beryllium	0.16 or SB	<0.548	<0.608	<0.503	<0.578
Cadmium	1 or SB	<0.548	<0.608	<0.503	<0.578
Calcium	SB	21400	37300	1800	2440
Chromium	10 or SB	13	9.87	11.7	10.9
Cobalt	30 or SB	7.53	<6.08	5.31	<5.78
Copper	25 or SB	41.7	8.32	11.1	9.78
Iron	2000 or SB	18600	14900	19300	18100
Lead	500 (Urban) or SB	31.2	3.34	213	<5.78
Magnesium	SB	8990	4010	4330	4230
Manganese	SB	255	235	156	139
Mercury	0.1	<0.164	<0.182	<0.151	<0.173
Nickel	13 or SB	24	12.3	15.2	14.9
Potassium	SB	1150	903	996	966
Selenium	2 or SB	3.72	3.4	<0.503	<0.578
Silver	SB	<1.10	<1.22	<1.01	<1.16
Sodium	SB	--	394	58	145
Thallium	SB	<1.10	<1.22	<1.01	<1.16
Vandium	150 or SB	14.2	10.6	12.4	11.9
Zinc	20 or SB	98.9	30.5	68.4	36.9
Total Cyanide	Site -specific	<1.10	<1.22	<1.01	<1.16

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		North Basement Chassis Plant			
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**12A**	**12A**	**12A**	**12B**
Sample Depth (ft.)		**0-0.5**	**3.5-4**	**5.5-6**	**0-0.5**
Saturation (Sat/Unsat)		**U**	**U**	**S**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	1980	6570	6480	8450
Antimony	SB	2.55	<1.12	<1.19	3.59
Arsenic	7.5 or SB	7.68	<1.12	<1.19	28.6
Barium	300 or SB	454	45.8	48	268
Beryllium	0.16 or SB	<0.509	<0.560	<0.597	<0.564
Cadmium	1 or SB	5.5	<0.560	<0.597	17.2
Calcium	SB	4700	2760	1860	52200
Chromium	10 or SB	40.6	15.1	14.9	189
Cobalt	30 or SB	8.68	7.22	6.73	12
Copper	25 or SB	110	14.6	14.2	337
Iron	2000 or SB	26800	14100	14400	48500
Lead	500 (Urban) or SB	809	29.2	13.4	1680
Magnesium	SB	1290	3510	3060	5330
Manganese	SB	1120	139	182	578
Mercury	0.1	<0.153	<0.168	<0.179	3.06
Nickel	13 or SB	66.4	12.7	13.2	71
Potassium	SB	957	1750	1660	2280
Selenium	2 or SB	2.25	<0.560	2.83	10.7
Silver	SB	<1.02	<1.12	<1.19	<1.13
Sodium	SB	1250	159	79.2	184
Thallium	SB	<1.02	<1.12	<1.19	<1.13
Vandium	150 or SB	13.7	19.6	18.2	92.8
Zinc	20 or SB	301	33.4	32.1	1240
Total Cyanide	Site -specific	<1.02	<1.12	<1.19	1.85

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		North Basement Chassis Plant		
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**12B**	**12C**	**12C**
Sample Depth (ft.)		**2.5-3**	**0-0.5**	**2-2.5**
Saturation (Sat/Unsat)		**S**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**			
Aluminum	SB	10300	5650	6140
Antimony	SB	<1.25	2.43	<1.02
Arsenic	7.5 or SB	<1.25	1.79	<1.02
Barium	300 or SB	71	683	145
Beryllium	0.16 or SB	<0.623	<0.512	<0.511
Cadmium	1 or SB	<0.623	9.58	5.23
Calcium	SB	2180	49100	11000
Chromium	10 or SB	21	21.3	16.4
Cobalt	30 or SB	9.35	<5.12	5.5
Copper	25 or SB	23.8	220	24.7
Iron	2000 or SB	19100	49100	31000
Lead	500 (Urban) or SB	18.1	11300	4210
Magnesium	SB	4140	2800	2490
Manganese	SB	256	216	156
Mercury	0.1	<0.187	0.494	0.331
Nickel	13 or SB	17.3	14	12.3
Potassium	SB	2440	1810	1580
Selenium	2 or SB	<0.623	<0.512	<0.511
Silver	SB	<1.25	<1.02	<1.02
Sodium	SB	133	911	503
Thallium	SB	<1.25	<1.02	<1.02
Vandium	150 or SB	26.2	13.4	16.5
Zinc	20 or SB	45.6	125	68.2
Total Cyanide	Site -specific	<1.25	<1.02	<1.02

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		M12 Hydraulic Elevator - Chassis Plant			
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**13A**	**13A**	**13B**	**13B**
Sample Depth (ft.)		**0-0.5**	**5-5.5**	**0-0.5**	**3-3.5**
Saturation (Sat/Unsat)		**U**	**S**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	7850	6570	7310	7720
Antimony	SB	<6.66	<8.21	<6.49	<1.10
Arsenic	7.5 or SB	<1.11	<1.37	2.56	2.85
Barium	300 or SB	33.4	25.9	42	40.1
Beryllium	0.16 or SB	<0.555	<0.684	<0.541	<0.548
Cadmium	1 or SB	<0.555	<0.684	<0.541	<0.548
Calcium	SB	7290	8800	6560	22700
Chromium	10 or SB	14.4	15.2	18.1	21.6
Cobalt	30 or SB	<5.55	<6.84	<5.41	<5.48
Copper	25 or SB	24.7	15.6	20.9	17.6
Iron	2000 or SB	17200	14300	20300	17000
Lead	500 (Urban) or SB	45	21.3	23.9	61.5
Magnesium	SB	4410	6070	4170	5470
Manganese	SB	219	123	239	197
Mercury	0.1	<0.166	<0.205	<0.162	<0.164
Nickel	13 or SB	16.9	13.4	16.6	14
Potassium	SB	1170	1060	1160	1210
Selenium	2 or SB	6.03	5.31	6.58	3.3
Silver	SB	<1.11	<1.37	<1.08	<1.10
Sodium	SB	115	106	89.5	145
Thallium	SB	<1.11	<1.37	<1.08	<1.10
Vandium	150 or SB	14.1	11.7	13.6	13.7
Zinc	20 or SB	88.5	45	163	93.9
Total Cyanide	Site -specific	<1.11	<1.37	<1.08	<1.10

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		**Central Rail Spur Chassis Plant**		
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**15A**	**15A**	**15B**
Sample Depth (ft.)		**1-3**	**3-5**	**1.6-3.6**
Saturation (Sat/Unsat)		**U**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**			
Aluminum	SB	9690	6510	5790
Antimony	SB	<6.52	<6.98	<6.35
Arsenic	7.5 or SB	<1.09	<1.16	1.66
Barium	300 or SB	54.5	66.4	26.1
Beryllium	0.16 or SB	<0.543	<0.582	<0.529
Cadmium	1 or SB	<0.543	0.667	<0.529
Calcium	SB	2720	14300	12000
Chromium	10 or SB	23.6	19	10.5
Cobalt	30 or SB	7.67	7.29	<5.29
Copper	25 or SB	24.7	64.7	17.9
Iron	2000 or SB	13500	16800	16000
Lead	500 (Urban) or SB	14.1	57.3	48.2
Magnesium	SB	4910	8460	5930
Manganese	SB	197	314	180
Mercury	0.1	<0.163	<0.175	<0.159
Nickel	13 or SB	17.3	13.2	13.5
Potassium	SB	977	2300	875
Selenium	2 or SB	3.92	3.64	3.45
Silver	SB	<1.09	<1.16	<1.06
Sodium	SB	139	--	110
Thallium	SB	<1.09	<1.16	<1.06
Vandium	150 or SB	22.8	19.9	11.7
Zinc	20 or SB	36	289	48.6
Total Cyanide	Site -specific	<1.09	<1.16	<1.06

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Central Rail Spur Chassis Plant		
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**15B**	**15C**	**15C**
Sample Depth (ft.)		**3.6-5.6**	**0-2**	**2-4**
Saturation (Sat/Unsat)		**U**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**			
Aluminum	SB	--	5860	6700
Antimony	SB	--	<6.18	<6.55
Arsenic	7.5 or SB	--	<1.03	<1.09
Barium	300 or SB	--	36.2	44.3
Beryllium	0.16 or SB	--	<0.515	<0.546
Cadmium	1 or SB	--	<0.515	<0.546
Calcium	SB	--	--	6410
Chromium	10 or SB	--	13.5	13.5
Cobalt	30 or SB	--	9.1	5.96
Copper	25 or SB	--	105	19
Iron	2000 or SB	--	--	16100
Lead	500 (Urban) or SB	--	67.4	46.7
Magnesium	SB	--	24000	4050
Manganese	SB	--	170	231
Mercury	0.1	--	<0.154	<0.164
Nickel	13 or SB	--	9.6	13.1
Potassium	SB	--	959	1400
Selenium	2 or SB	--	5.43	4.18
Silver	SB	--	<1.03	<1.09
Sodium	SB	--	--	666
Thallium	SB	--	<1.03	<1.09
Vandium	150 or SB	--	32.7	15.6
Zinc	20 or SB	--	77.6	79.7
Total Cyanide	Site -specific	--	<1.03	<1.09

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Paint Tote and Central Sludge Chassis Plant			
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**16A**	**16B**	**16B**	**16B**
Sample Depth (ft.)		**5-5.5**	**0-.5**	**2-2.5**	**4.1-4.6**
Saturation (Sat/Unsat)		**S**	**U**	**U**	**S**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	8090	7730	8210	5100
Antimony	SB	<7.24	<6.59	<6.72	<6.95
Arsenic	7.5 or SB	<1.21	<1.10	<1.12	<1.16
Barium	300 or SB	15.9	85	85.8	17.5
Beryllium	0.16 or SB	<0.603	<0.549	<0.560	<0.579
Cadmium	1 or SB	<0.603	4.32	<0.560	<0.579
Calcium	SB	4020	11100	23500	3300
Chromium	10 or SB	33.3	17	19.5	7.41
Cobalt	30 or SB	<6.03	6.43	7.14	<5.79
Copper	25 or SB	13.1	26.5	33.1	8.56
Iron	2000 or SB	17000	16100	17800	11000
Lead	500 (Urban) or SB	13.8	26.2	36.8	5.85
Magnesium	SB	4770	5110	11900	2610
Manganese	SB	187	177	200	103
Mercury	0.1	<0.181	<0.165	<0.168	<0.174
Nickel	13 or SB	15.7	15.4	17.9	9.32
Potassium	SB	1030	2470	2680	1060
Selenium	2 or SB	5.87	5.74	6.92	3.59
Silver	SB	<1.21	<1.10	<1.12	<1.16
Sodium	SB	171	169	165	83.5
Thallium	SB	<1.21	<1.10	<1.12	<1.16
Vandium	150 or SB	15.1	18.9	20.7	7.9
Zinc	20 or SB	81.6	72.8	78	27.6
Total Cyanide	Site -specific	<1.21	<1.10	<1.12	<1.16

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Basement Conveyor System Chassis Plant		Column Q5 Wastewater Leak Chassis Plant	
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**17A**	**17A**	**18A**	**18A-Dup**
Sample Depth (ft.)		**0-0.5**	**4-4.5**	**0-0.5**	**0-0.5**
Saturation (Sat/Unsat)		**U**	**U**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	6390	6850	10200	9630
Antimony	SB	<6.42	<7.85	<6.56	<6.56
Arsenic	7.5 or SB	2.88	1.47	<1.09	<1.09
Barium	300 or SB	51.7	43.2	41.7	37.6
Beryllium	0.16 or SB	<0.535	<0.654	<0.546	<0.547
Cadmium	1 or SB	<0.535	<0.654	<0.546	<0.547
Calcium	SB	9240	2540	10100	14400
Chromium	10 or SB	14.6	15.8	14.5	12.7
Cobalt	30 or SB	5.88	<6.54	12.9	12.6
Copper	25 or SB	77.2	20.2	77.2	71
Iron	2000 or SB	31400	14500	29700	24600
Lead	500 (Urban) or SB	91.7	7.23	22.2	19.5
Magnesium	SB	4400	3050	8550	8040
Manganese	SB	303	138	273	298
Mercury	0.1	<0.161	<0.196	<0.164	<0.164
Nickel	13 or SB	15.8	13.4	17.8	18
Potassium	SB	1580	1590	2170	1970
Selenium	2 or SB	9.54	5.06	9.92	8.16
Silver	SB	<1.07	<1.31	<1.09	<1.09
Sodium	SB	135	128	959	755
Thallium	SB	<1.07	<1.31	<1.09	<1.09
Vandium	150 or SB	18.6	19.6	54	54.8
Zinc	20 or SB	107	31	218	184
Total Cyanide	Site -specific	<1.07	<1.31	<1.09	<1.09

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 8
PAOC Sample Locations
Inorganic Analyses and TAGM Screening Values
Former Tarrytown Assembly Plant

Phase II ESI Sampling Area Description		Column M23 Hydraulic Leak Chassis Plant		Column S20 Hydraulic Leak Chassis Plant	
Sample Location	**Unrestricted Use Screening Value TAGM 4046**	**19A**	**19A**	**20A**	**20A**
Sample Depth (ft.)		**0-0.5**	**4-4.5**	**0-0.5**	**0.5-1.0**
Saturation (Sat/Unsat)		**U**	**S**	**U**	**U**
TAL Inorganics (mg/kg)	**(mg/kg)**				
Aluminum	SB	6640	5860	3820	7380
Antimony	SB	<6.40	<6.93	4.26	<1.08
Arsenic	7.5 or SB	1.09	<1.15	2.22	1.86
Barium	300 or SB	43.5	11.3	216	62.6
Beryllium	0.16 or SB	<0.533	<0.577	<0.531	<0.541
Cadmium	1 or SB	<0.533	<0.577	5.6	0.684
Calcium	SB	5300	1820	3530	12200
Chromium	10 or SB	14.1	9.53	51.2	17
Cobalt	30 or SB	<5.33	<5.77	<5.31	5.99
Copper	25 or SB	13.9	7.42	150	32.4
Iron	2000 or SB	13800	11500	15100	19300
Lead	500 (Urban) or SB	16.8	5.14	315	75
Magnesium	SB	3260	3050	2410	5000
Manganese	SB	149	111	111	233
Mercury	0.1	<0.160	<0.173	<0.159	<0.162
Nickel	13 or SB	12.7	12.2	11.4	17.6
Potassium	SB	1550	787	764	965
Selenium	2 or SB	4.85	3.81	<0.531	<0.541
Silver	SB	<1.07	<1.15	1.53	<1.08
Sodium	SB	54.6	104	194	267
Thallium	SB	<1.07	<1.15	<1.06	<1.08
Vandium	150 or SB	16.7	8.36	11	14
Zinc	20 or SB	296	29.9	287	123
Total Cyanide	Site -specific	<1.07	<1.15	<1.06	<1.08

Constituents With Levels Above TAGM 4046 Values, not necessarily greater than site background

SB - Site Background

-- Not Analyzed

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	OW-2	OW-3	OW-6	OW-7
VOLATILE ORGANICS						
ACETONE	UG/L		20.00 U	20.00 U	20.00 U	20.00 U
BENZENE	UG/L	1.0	5.00 U	5.00 U	5.00 U	5.00 U
BROMODICHLOROMETHANE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
BROMOFORM	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
BROMOMETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
2-BUTANONE (MEK)	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
CARBON DISULFIDE	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
CARBON TETRACHLORIDE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROFORM	UG/L	7.0	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROMETHANE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
DIBROMOCHLOROMETHANE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
1,1-DICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
1,1-DICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
CIS-1,2-DICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
TRANS-1,2-DICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROPROPANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
ETHYLBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
2-HEXANONE	UG/L	50.0	10.00 U	10.00 U	10.00 U	10.00 U
METHYLENE CHLORIDE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
4-METHYL-2-PENTANONE (MIBK)	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
STYRENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
TETRACHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
TOLUENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-TRICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-TRICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
TRICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
VINYL CHLORIDE	UG/L	2.0	5.00 U	5.00 U	5.00 U	5.00 U
O-XYLENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
M+P-XYLENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U

(1) 6 NYCRR Part 703, Class GA Standards and Guidance

Constituents with Levels Above Guidance

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	OW-2	OW-3	OW-6	OW-7
SEMI-VOLATILE ORGANICS/PEST/PCB						
ACENAPHTHENE	UG/L	20.0	5.00 U	5.00 U	5.00 U	5.00 U
ACENAPHTHYLENE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
ALDRIN	UG/L	ND		0.05 U	0.05 U	0.05 U
ANTHRACENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(A)ANTHRACENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(A)PYRENE	UG/L	ND	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(B)FLUORANTHENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(G,H,I)PERYLENE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
BENZO(K)FLUORANTHENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U
BENZYL ALCOHOL	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
ALPHA-BHC	UG/L			0.05 U	0.05 U	0.05 U
BETA-BHC	UG/L			0.05 U	0.05 U	0.05 U
DELTA-BHC	UG/L			0.05 U	0.05 U	0.05 U
GAMMA-BHC (LINDANE)	UG/L			0.05 U	0.05 U	0.05 U
BUTYL BENZYL PHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	6.10
DI-N-BUTYLPHTHALATE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
CARBAZOLE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
INDENO(1,2,3-CD)PYRENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U
ALPHA-CHLORDANE	UG/L	0.1		0.05 U	0.05 U	0.05 U
GAMMA-CHLORDANE	UG/L	0.1		0.05 U	0.05 U	0.05 U
4-CHLOROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
BIS(-2-CHLOROETHOXY)METHAN	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
BIS(2-CHLOROETHYL)ETHER	UG/L	1.0	5.00 U	5.00 U	5.00 U	5.00 U
2-CHLORONAPHTHALENE	UG/L	10.0	5.00 U	5.00 U	5.00 U	5.00 U
2-CHLOROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
CHRYSENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U
4,4'-DDD	UG/L	ND		0.05 U	0.05 U	0.05 U
4,4'-DDE	UG/L	ND		0.05 U	0.05 U	0.05 U
4,4'-DDT	UG/L	ND		0.10 U	0.10 U	0.10 U
DIBENZO(A,H)ANTHRACENE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
DIBENZOFURAN	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
1,3-DICHLOROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROBENZENE	UG/L	4.7	5.00 U	5.00 U	5.00 U	5.00 U
1,4-DICHLOROBENZENE	UG/L	4.7	5.00 U	5.00 U	5.00 U	5.00 U
3,3'-DICHLOROBENZIDINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
2,4-DICHLOROPHENOL	UG/L	1.0	10.00 U	10.00 U	10.00 U	10.00 U
DIELDRIN	UG/L	ND		0.05 U	0.05 U	0.05 U
DIETHYLPHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
DIMETHYL PHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
2,4-DIMETHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
2,4-DINITROPHENOL	UG/L		20.00 U	20.00 U	20.00 U	20.00 U
2,4-DINITROTOLUENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
2,6-DINITROTOLUENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
ALPHA-ENDOSULFAN	UG/L			0.05 U	0.05 U	0.05 U
BETA-ENDOSULFAN	UG/L			0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	UG/L			0.10 U	0.10 U	0.10 U
ENDRIN	UG/L	ND		0.05 U	0.05 U	0.05 U
ENDRIN ALDEHYDE	UG/L	5.0		0.10 U	0.10 U	0.10 U
ENDRIN KETONE	UG/L			0.10 U	0.10 U	0.10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U

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Constituents with Levels Above Guidance

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	OW-2	OW-3	OW-6	OW-7
SEMI-VOLATILE ORGANICS/PEST/PCB (cont)						
FLUORENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
HEPTACHLOR	UG/L	ND		0.05 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	UG/L	ND		0.05 U	0.05 U	0.05 U
HEXACHLOROBENZENE	UG/L	0.25	5.00 U	5.00 U	5.00 U	5.00 U
HEXACHLOROBUTADIENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
HEXACHLOROCYCLOPENTADIEN	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
HEXACHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
ISOPHORONE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
METHOXYCHLOR	UG/L	35.0		0.20 U	0.20 U	0.20 U
2-METHYLNAPHTHALENE	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
4,6-DINITRO-2-METHYLPHENOL	UG/L		20.00 U	20.00 U	20.00 U	20.00 U
4-CHLORO-3-METHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
2-METHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
4-METHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
NAPHTHALENE	UG/L	10.0	5.00 U	5.00 U	5.00 U	5.00 U
2-NITROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
3-NITROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
4-NITROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
NITROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
2-NITROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
4-NITROPHENOL	UG/L		20.00 U	20.00 U	20.00 U	20.00 U
N-NITROSODIMETHYLAMINE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
N-NITROSODIPHENYLAMINE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
DI-N-OCTYL PHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
PCB 1016	UG/L	0.1		0.50 U	0.50 U	0.50 U
PCB 1221	UG/L	0.1		0.50 U	0.50 U	0.50 U
PCB 1232	UG/L	0.1		0.50 U	0.50 U	0.50 U
PCB 1242	UG/L	0.1		0.50 U	0.50 U	0.50 U
PCB 1248	UG/L	0.1		0.50 U	0.50 U	0.50 U
PCB 1254	UG/L	0.1		0.50 U	0.50 U	0.50 U
PCB 1260	UG/L	0.1		0.50 U	0.50 U	0.50 U
PENTACHLOROPHENOL	UG/L	1.0	20.00 U	20.00 U	20.00 U	20.00 U
PHENANTHRENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
PHENOL	UG/L	1.0	10.00 U	10.00 U	10.00 U	10.00 U
4-BROMOPHENYL-PHENYLETHER	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
4-CHLOROPHENYL-PHENYLETHE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
N-NITROSO-DI-N-PROPYLAMINE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U
PYRENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U
TOXAPHENE	UG/L	ND		1.00 U	1.00 U	1.00 U
1,2,4-TRICHLOROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-TRICHLOROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U
2,4,5-TRICHLOROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U

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Constituents with Levels Above Guidance

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	OW-8	OW-9	OW-10	OW-11	OW-12
VOLATILE ORGANICS							
ACETONE	UG/L		20.00 U	20.00 U	20.00 U	20.00 U	20.00 U
BENZENE	UG/L	1.0	5.00 U	5.00 U	24.00	5.00 U	5.00 U
BROMODICHLOROMETHANE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BROMOFORM	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BROMOMETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-BUTANONE (MEK)	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CARBON DISULFIDE	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CARBON TETRACHLORIDE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROFORM	UG/L	7.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROMETHANE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
DIBROMOCHLOROMETHANE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-DICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-DICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CIS-1,2-DICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TRANS-1,2-DICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROPROPANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ETHYLBENZENE	UG/L	5.0	5.00 U	5.00 U	17.00	5.00 U	5.00 U
2-HEXANONE	UG/L	50.0	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
METHYLENE CHLORIDE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-METHYL-2-PENTANONE (MIBK)	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
STYRENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TETRACHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TOLUENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-TRICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-TRICHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TRICHLOROETHENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
VINYL CHLORIDE	UG/L	2.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
O-XYLENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
M+P-XYLENE	UG/L	5.0	5.00 U	5.00 U	11.00	5.00 U	5.00 U

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Constituents with Levels Above Guidance

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	OW-8	OW-9	OW-10	OW-11	OW-12
SEMI-VOLATILE ORGANICS/PEST/PCB							
ACENAPHTHENE	UG/L	20.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ACENAPHTHYLENE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ALDRIN	UG/L	ND	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ANTHRACENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(A)ANTHRACENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(A)PYRENE	UG/L	ND	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(B)FLUORANTHENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(G,H,I)PERYLENE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BENZO(K)FLUORANTHENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BENZYL ALCOHOL	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ALPHA-BHC	UG/L		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
BETA-BHC	UG/L		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
DELTA-BHC	UG/L		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-BHC (LINDANE)	UG/L		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
BUTYL BENZYL PHTHALATE	UG/L	50.0	5.60	7.00	5.00 U	5.00 U	5.00 U
DI-N-BUTYLPHTHALATE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CARBAZOLE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
INDENO(1,2,3-CD)PYRENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ALPHA-CHLORDANE	UG/L	0.1	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-CHLORDANE	UG/L	0.1	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-CHLOROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BIS(-2-CHLOROETHOXY)METHAN	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BIS(2-CHLOROETHYL)ETHER	UG/L	1.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-CHLORONAPHTHALENE	UG/L	10.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-CHLOROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHRYSENE	UG/L	0.002	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4,4'-DDD	UG/L	ND	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	UG/L	ND	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	UG/L	ND	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DIBENZO(A,H)ANTHRACENE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
DIBENZOFURAN	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-DICHLOROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROBENZENE	UG/L	4.7	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-DICHLOROBENZENE	UG/L	4.7	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,3'-DICHLOROBENZIDINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-DICHLOROPHENOL	UG/L	1.0	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
DIELDRIN	UG/L	ND	0.05 U	0.05 U	0.11	0.05 U	0.05 U
DIETHYLPHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
DIMETHYL PHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-DIMETHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4-DINITROPHENOL	UG/L		20.00 U	20.00 U	20.00 U	20.00 U	20.00 U
2,4-DINITROTOLUENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,6-DINITROTOLUENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ALPHA-ENDOSULFAN	UG/L		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
BETA-ENDOSULFAN	UG/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	UG/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	UG/L	ND	0.05 U	0.05 U	0.14	0.05 U	0.05 U
ENDRIN ALDEHYDE	UG/L	5.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	UG/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	6.50	5.00 U

(1) 6 NYCRR Part 703, Class GA Standards and Guidance

Constituents with Levels Above Guidance

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	OW-8	OW-9	OW-10	OW-11	OW-12
SEMI-VOLATILE ORGANICS/PEST/PCB (cont)							
FLUORENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
HEPTACHLOR	UG/L	ND	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	UG/L	ND	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROBENZENE	UG/L	0.25	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
HEXACHLOROBUTADIENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
HEXACHLOROCYCLOPENTADIEN	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
HEXACHLOROETHANE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ISOPHORONE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
METHOXYCHLOR	UG/L	35.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
2-METHYLNAPHTHALENE	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4,6-DINITRO-2-METHYLPHENOL	UG/L		20.00 U	20.00 U	20.00 U	20.00 U	20.00 U
4-CHLORO-3-METHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-METHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-METHYLPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
NAPHTHALENE	UG/L	10.0	5.00 U	5.00 U	11.00	5.00 U	5.00 U
2-NITROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-NITROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-NITROANILINE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
NITROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-NITROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-NITROPHENOL	UG/L		20.00 U	20.00 U	20.00 U	20.00 U	20.00 U
N-NITROSODIMETHYLAMINE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-NITROSODIPHENYLAMINE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
DI-N-OCTYL PHTHALATE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
PCB 1016	UG/L	0.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
PCB 1221	UG/L	0.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
PCB 1232	UG/L	0.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
PCB 1242	UG/L	0.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
PCB 1248	UG/L	0.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
PCB 1254	UG/L	0.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
PCB 1260	UG/L	0.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
PENTACHLOROPHENOL	UG/L	1.0	20.00 U	20.00 U	20.00 U	20.00 U	20.00 U
PHENANTHRENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
PHENOL	UG/L	1.0	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-BROMOPHENYL-PHENYLETHER	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-CHLOROPHENYL-PHENYLETHE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-NITROSO-DI-N-PROPYLAMINE	UG/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
PYRENE	UG/L	50.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TOXAPHENE	UG/L	ND	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-TRICHLOROBENZENE	UG/L	5.0	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-TRICHLOROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4,5-TRICHLOROPHENOL	UG/L		10.00 U	10.00 U	10.00 U	10.00 U	10.00 U

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Constituents with Levels Above Guidance

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	FD (12)	OW-13	OW-14	OW-15	OW-16	OW-17	OW-18
VOLATILE ORGANICS									
ACETONE	UG/L		20.00 U	100.00 U	20.00 U	20.00 U	20.00 U	20.00 U	20.00 U
BENZENE	UG/L	1.0	5.00 U	92.00	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BROMODICHLOROMETHANE	UG/L	50.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BROMOFORM	UG/L	50.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BROMOMETHANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-BUTANONE (MEK)	UG/L		10.00 U	50.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CARBON DISULFIDE	UG/L		10.00 U	50.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CARBON TETRACHLORIDE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROBENZENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROETHANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROFORM	UG/L	7.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CHLOROMETHANE	UG/L		5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
DIBROMOCHLOROMETHANE	UG/L	50.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-DICHLOROETHANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROETHANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-DICHLOROETHENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CIS-1,2-DICHLOROETHENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TRANS-1,2-DICHLOROETHENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-DICHLOROPROPANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ETHYLBENZENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-HEXANONE	UG/L	50.0	10.00 U	50.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
METHYLENE CHLORIDE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-METHYL-2-PENTANONE (MIBK)	UG/L		10.00 U	50.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
STYRENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TETRACHLOROETHENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TOLUENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,1-TRICHLOROETHANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-TRICHLOROETHANE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
TRICHLOROETHENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
VINYL CHLORIDE	UG/L	2.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
O-XYLENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
M+P-XYLENE	UG/L	5.0	5.00 U	25.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

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Constituents with Levels Above Guidance

Table 12
Groundwater Organic Compound Analyses and Comparison to TAGM Values
Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	FD (12)	OW-13	OW-14	OW-15	OW-16	OW-17	OW-18
SEMI-VOLATILE ORGANICS/PEST/PCB									
ACENAPHTHENE	UG/L	20.0	5.30 U	15.00	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
ACENAPHTHYLENE	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
ALDRIN	UG/L	ND	0.05 U						0.05 U
ANTHRACENE	UG/L	50.0	5.30 U	7.00	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BENZO(A)ANTHRACENE	UG/L	0.002	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BENZO(A)PYRENE	UG/L	ND	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BENZO(B)FLUORANTHENE	UG/L	0.002	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BENZO(G,H,I)PERYLENE	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BENZO(K)FLUORANTHENE	UG/L	0.002	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BENZYL ALCOHOL	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
ALPHA-BHC	UG/L		0.05 U						0.05 U
BETA-BHC	UG/L		0.05 U						0.05 U
DELTA-BHC	UG/L		0.05 U						0.05 U
GAMMA-BHC (LINDANE)	UG/L		0.05 U						0.05 U
BUTYL BENZYL PHTHALATE	UG/L	50.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	6.40
DI-N-BUTYLPHTHALATE	UG/L		5.30 U	5.20	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
CARBAZOLE	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
INDENO(1,2,3-CD)PYRENE	UG/L	0.002	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
ALPHA-CHLORDANE	UG/L	0.1	0.05 U						0.05 U
GAMMA-CHLORDANE	UG/L	0.1	0.05 U						0.05 U
4-CHLOROANILINE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BIS(-2-CHLOROETHOXY)METHAN	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
BIS(2-CHLOROETHYL)ETHER	UG/L	1.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2-CHLORONAPHTHALENE	UG/L	10.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2-CHLOROPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
CHRYSENE	UG/L	0.002	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
4,4'-DDD	UG/L	ND	0.05 U						0.05 U
4,4'-DDE	UG/L	ND	0.05 U						0.05 U
4,4'-DDT	UG/L	ND	0.10 U						0.10 U
DIBENZO(A,H)ANTHRACENE	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
DIBENZOFURAN	UG/L		5.30 U	6.40	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
1,3-DICHLOROBENZENE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
1,2-DICHLOROBENZENE	UG/L	4.7	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
1,4-DICHLOROBENZENE	UG/L	4.7	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
3,3'-DICHLOROBENZIDINE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2,4-DICHLOROPHENOL	UG/L	1.0	11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
DIELDRIN	UG/L	ND	0.05 U						0.05 U
DIETHYLPHTHALATE	UG/L	50.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
DIMETHYL PHTHALATE	UG/L	50.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2,4-DIMETHYLPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
2,4-DINITROPHENOL	UG/L		21.00 U	20.00 U	20.00 U	20.00 U	20.00 U	21.00 U	20.00 U
2,4-DINITROTOLUENE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2,6-DINITROTOLUENE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
ALPHA-ENDOSULFAN	UG/L		0.05 U						0.05 U
BETA-ENDOSULFAN	UG/L		0.10 U						0.10 U
ENDOSULFAN SULFATE	UG/L		0.10 U						0.10 U
ENDRIN	UG/L	ND	0.05 U						0.05 U
ENDRIN ALDEHYDE	UG/L	5.0	0.10 U						0.10 U
ENDRIN KETONE	UG/L		0.10 U						0.10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	50.0	5.30 U	5.00 U	13.00	5.00 U	5.00 U	5.30 U	5.00 U

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Former Tarrytown Assembly Plant
December 1996

Phase II ESI Parameter	Units	NYSDEC Guidance	FD (12)	OW-13	OW-14	OW-15	OW-16	OW-17	OW-18
SEMI-VOLATILE ORGANICS/PEST/PCB (cont)									
FLUORENE	UG/L	50.0	5.30 U	17.00	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
HEPTACHLOR	UG/L	ND	0.05 U						0.05 U
HEPTACHLOR EPOXIDE	UG/L	ND	0.05 U						0.05 U
HEXACHLOROBENZENE	UG/L	0.25	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
HEXACHLOROBUTADIENE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
HEXACHLOROCYCLOPENTADIEN	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
HEXACHLOROETHANE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
ISOPHORONE	UG/L	50.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
METHOXYCHLOR	UG/L	35.0	0.20 U						0.20 U
2-METHYLNAPHTHALENE	UG/L		11.00 U	24.00	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
4,6-DINITRO-2-METHYLPHENOL	UG/L		21.00 U	20.00 U	20.00 U	20.00 U	20.00 U	21.00 U	20.00 U
4-CHLORO-3-METHYLPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
2-METHYLPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
4-METHYLPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
NAPHTHALENE	UG/L	10.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2-NITROANILINE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
3-NITROANILINE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
4-NITROANILINE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
NITROBENZENE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2-NITROPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
4-NITROPHENOL	UG/L		21.00 U	20.00 U	20.00 U	20.00 U	20.00 U	21.00 U	20.00 U
N-NITROSODIMETHYLAMINE	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
N-NITROSODIPHENYLAMINE	UG/L	50.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
DI-N-OCTYL PHTHALATE	UG/L	50.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
PCB 1016	UG/L	0.1	0.50 U						0.50 U
PCB 1221	UG/L	0.1	0.50 U						0.50 U
PCB 1232	UG/L	0.1	0.50 U						0.50 U
PCB 1242	UG/L	0.1	0.50 U						0.50 U
PCB 1248	UG/L	0.1	0.50 U						0.50 U
PCB 1254	UG/L	0.1	0.50 U						0.50 U
PCB 1260	UG/L	0.1	0.50 U						0.50 U
PENTACHLOROPHENOL	UG/L	1.0	21.00 U	20.00 U	20.00 U	20.00 U	20.00 U	21.00 U	20.00 U
PHENANTHRENE	UG/L	50.0	5.30 U	27.00	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
PHENOL	UG/L	1.0	11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
4-BROMOPHENYL-PHENYLETHER	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
4-CHLOROPHENYL-PHENYLETHE	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
N-NITROSO-DI-N-PROPYLAMINE	UG/L		5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
PYRENE	UG/L	50.0	5.30 U	5.70	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
TOXAPHENE	UG/L	ND	1.00 U						1.00 U
1,2,4-TRICHLOROBENZENE	UG/L	5.0	5.30 U	5.00 U	5.00 U	5.00 U	5.00 U	5.30 U	5.00 U
2,4,6-TRICHLOROPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U
2,4,5-TRICHLOROPHENOL	UG/L		11.00 U	10.00 U	10.00 U	10.00 U	10.00 U	11.00 U	10.00 U

(1) 6 NYCRR Part 703, Class GA Standards and Guidance

Constituents with Levels Above Guidance

Table 13
Inorganic Analyses and TAGM Values
FormerTarrytown Assembly Plant
December 1996

Phase II ESI Parameter		NYSDEC Guidance (1)	OW-2		OW-3		OW-6		OW-7	
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
ALUMINUM	MG/L		0.806	0.100 U	0.100 U	1.99	0.114	78.00	0.100 U	18.30
ANTIMONY	MG/L	0.003	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ARSENIC	MG/L	0.025	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.035	0.010 U	0.010 U
BARIUM	MG/L	1.000	0.165	0.151	0.162	0.180	0.021	0.264	0.046	0.130
BERYLLIUM	MG/L	0.003	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CADMIUM	MG/L	0.010	0.00777	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CALCIUM	MG/L		184.0	176.0	46.6	47.9	45.300	107.0	104.000	131.0
CHROMIUM	MG/L	0.050	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.120	0.010 U	0.030
COBALT	MG/L		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.058	0.050 U	0.050 U
COPPER	MG/L	0.200	0.020 U	0.020 U	0.020 U	0.034	0.020 U	0.154	0.020 U	0.023
IRON	MG/L	0.300	60.4	49.6	3.440	8.650	0.267	168.0	0.547	32.200
LEAD	MG/L	0.025	0.005 U	0.005 U	0.005 U	0.071	0.005 U	0.075	0.005 U	0.013
MAGNESIUM	MG/L	35.000	76.0	78.9	13.8	14.600	12.700	48.5	11.100	19.000
MANGANESE	MG/L	0.300	1.85	1.80	0.250	0.268	0.177	2.070	0.626	1.220
MERCURY	MG/L	0.002	0.0003 U	0.00030 U	0.0003 U	0.0003 U	0.0003 U	0.00030 U	0.0003 U	0.0003 U
NICKEL	MG/L		0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.142	0.040 U	0.040 U
POTASSIUM	MG/L		33.80	32.400	6.390	7.070	22.500	35.3	12.600	15.400
SELENIUM	MG/L	0.010	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0087	0.005 U	0.005 U
SILVER	MG/L	0.050	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SODIUM	MG/L	20.000	646.0	623.0	63.2	63.200	249.000	244.0	17.700	17.300
THALLIUM	MG/L	0.040	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
VANADIUM	MG/L		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.134	0.050 U	0.050 U
ZINC	MG/L	0.300	0.035	0.0187	0.0109	0.112	0.014	0.412	0.013	0.091
TOTAL CYANIDE	MG/L	0.100		0.01 U		0.01 U		0.01 U		0.01 U

(1) 6 NYCRR Part 703, Class GA Standards and Guidance

Constituents with Levels In Dissolved Phase Above Guidance.

Note: Samples for dissolved metals were filtered through a 0.45 micron filter. Samples were filtered due to turbidity. Samples for total metals were unfiltered.

Table 13
Inorganic Analyses and TAGM Values
FormerTarrytown Assembly Plant
December 1996

Phase II ESI Parameter		NYSDEC Guidance (1)	OW-8		OW-9		OW-10		OW-11	
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
ALUMINUM	MG/L		0.912	50.90	0.170	87.700	0.100 U	23.00	0.116	252.00
ANTIMONY	MG/L	0.003	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.184	0.010 U	0.039
ARSENIC	MG/L	0.025	0.010 U	0.033	0.010 U	0.038	0.010 U	0.024	0.010 U	0.112
BARIUM	MG/L	1.000	0.109	1.130	0.104	0.578	2.870	5.150	0.117	5.020
BERYLLIUM	MG/L	0.003	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.010
CADMIUM	MG/L	0.010	0.005 U	0.007	0.005 U	0.005 U	0.005 U	0.022	0.005 U	0.011
CALCIUM	MG/L		45.200	105.000	259.000	330.000	106.000	128.000	78.700	254.000
CHROMIUM	MG/L	0.050	0.010 U	0.200	0.010	0.150	0.020	3.940	0.010 U	0.758
COBALT	MG/L		0.050 U	0.050 U	0.050 U	0.061	0.050 U	0.050 U	0.050 U	0.171
COPPER	MG/L	0.200	0.020 U	0.258	0.020 U	0.170	0.020 U	0.323	0.020 U	1.250
IRON	MG/L	0.300	1.750	88.500	0.336	176.000	45.900	133.000	1.660	676.000
LEAD	MG/L	0.025	0.013	0.586	0.005 U	0.098	0.005 U	2.880	0.005 U	12.500
MAGNESIUM	MG/L	35.000	23.500	53.400	77.800	116.000	21.800	28.100	11.900	103.000
MANGANESE	MG/L	0.300	0.073	1.060	0.434	2.740	0.595	1.160	0.476	6.650
MERCURY	MG/L	0.002	0.0003 U	0.00093	0.0003 U	0.00080	0.0003 U	0.0003 U	0.00030 U	0.00127
NICKEL	MG/L		0.040 U	0.084	0.040 U	0.136	0.040 U	0.050	0.040 U	0.502
POTASSIUM	MG/L		14.400	25.700	42.800	52.700	22.700	22.200	3.090	38.100
SELENIUM	MG/L	0.010	0.005 U	0.005 U	0.005 U	0.008	0.005 U	0.007	0.007	0.060
SILVER	MG/L	0.050	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SODIUM	MG/L	20.000	276.000	329.000	277.000	268.000	627.000	657.000	34.300	51.000
THALLIUM	MG/L	0.040	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
VANADIUM	MG/L		0.050 U	0.115	0.050 U	0.158	0.050 U	0.050 U	0.050 U	0.555
ZINC	MG/L	0.300	0.038	1.270	0.026	0.436	0.031	3.020	0.049	5.860
TOTAL CYANIDE	MG/L	0.100		0.01 U		0.01 U		0.0430		0.021

(1) 6 NYCRR Part 703, Class GA Standards and Guidance

Constituents with Levels In Dissolved Phase Above Guidance.

Note: Samples for dissolved metals were filtered through a 0.45 micron filter. Samples were filtered due to turbidity. Samples for total metals were unfiltered.

Table 13
Inorganic Analyses and TAGM Values
FormerTarrytown Assembly Plant
December 1996

Phase II ESI Parameter		NYSDEC Guidance (1)	OW-12		OW-15		OW-16		OW-17		OW-18	
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
ALUMINUM	MG/L		0.100 U	8.85	0.100 U	39.70	0.100 U	27.00	0.100 U	17.20	0.100 U	44.70
ANTIMONY	MG/L	0.003	0.013	0.011	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ARSENIC	MG/L	0.025	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.015
BARIUM	MG/L	1.000	0.094	0.163	0.026	0.479	0.159	0.293	0.429	0.586	0.247	0.499
BERYLLIUM	MG/L	0.003	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CADMIUM	MG/L	0.010	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CALCIUM	MG/L		64.200	63.800	32.500	60.000	193.000	205.000	105.000	116.000	294.000	339.000
CHROMIUM	MG/L	0.050	0.010 U	0.022	0.010 U	0.086	0.010 U	0.045	0.010 U	0.031	0.010 U	0.079
COBALT	MG/L		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
COPPER	MG/L	0.200	0.020 U	0.020 U	0.020 U	0.168	0.020 U	0.064	0.020 U	0.036	0.020 U	0.124
IRON	MG/L	0.300	0.112	16.200	0.100 U	84.800	11.800	61.500	24.300	64.900	27.900	129.000
LEAD	MG/L	0.025	0.005 U	0.078	0.005 U	0.070	0.005 U	0.032	0.005 U	0.034	0.005 U	0.109
MAGNESIUM	MG/L	35.000	6.670	9.500	11.000	38.300	33.900	39.200	85.000	93.600	51.600	67.800
MANGANESE	MG/L	0.300	0.026	0.223	0.010 U	1.680	2.110	2.540	0.756	1.140	2.910	3.950
MERCURY	MG/L	0.002	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.00069
NICKEL	MG/L		0.040 U	0.040 U	0.040 U	0.090	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.065
POTASSIUM	MG/L		14.800	15.000	1.000 U	15.200	30.000	23.800	42.500	44.000	33.400	35.900
SELENIUM	MG/L	0.010	0.007	0.005 U	0.005	0.005	0.005 U	0.005 U	0.005 U	0.005 U	0.011	0.010
SILVER	MG/L	0.050	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SODIUM	MG/L	20.000	254.000	240.000	7.060	8.990	1440.000	1420.000	266.000	292.000	726.000	742.000
THALLIUM	MG/L	0.040	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
VANADIUM	MG/L		0.050 U	0.050 U	0.050 U	0.116	0.050 U	0.060	0.050 U	0.050 U	0.050 U	0.094
ZINC	MG/L	0.300	0.025	0.088	0.020	0.224	0.020	0.121	0.018	0.087	0.024	0.423
TOTAL CYANIDE	MG/L	0.100		0.0130		0.01 U		0.01 U		0.01 U		0.01 U

(1) 6 NYCRR Part 703, Class GA
Standards and Guidance

Constituents with Levels In Dissolved Phase Above Guidance.

Note: Samples for dissolved metals were filtered through a 0.45 micron filter.
Samples were filtered due to turbidity.
Samples for total metals were unfiltered.

Appendix A-2

Phase III Investigation – 1997
(EMCON 2001)

Table 4
Organic Compound Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (ug/kg)	PAOC 2				PAOC 4					
		B-2H 0-24	B2G,S-1,2-4 12-24	B2E,S-1,2-4 24-48	B2F,S-1,3-5 36-60	B4D,S-1,1-3 12-36	B4E,S-1,1-3 12-36	B4G,S-1,1-3 12-36	B4F,S-1,1-3 12-36	B4H,S-1,1-3 12-36	B4I,S-1,1-3 12-36
TCL Organics(ug/kg)											
Methylene Chloride	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene(M+P)	1200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	50000	ND	2000	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50000	ND	4100	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(A)Anthracene	224 or MDL	ND	9000	ND	ND	ND	ND	ND	ND	ND	2400
Benzo(A)Pyrene	61 or MDL	ND	8600	ND	ND	ND	ND	ND	ND	ND	2800
Benzo(B)Fluoranthene	61 or MDL	ND	13000	ND	ND	ND	ND	ND	ND	ND	3700
Benzo(G,H,I)Perylene	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(K)Fluoranthene	610 or MDL	ND	4300	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	50000*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-N-Butylphthalate	8100	ND	ND	ND	ND	4200	ND	ND	3700	6400	5200
Carbazole	50000*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ideno(1,2,3-CD)Pyrene	3200	ND	3600	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	220 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	400	ND	11000	ND	ND	ND	ND	ND	2100	ND	3000
Dibenzo(A,H)Anthracene	14 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	7100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	2200	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50000	ND	22000	ND	ND	2700	ND	ND	3300	3000	4300
Fluorene	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	430 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	500 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	ND	17000	ND	ND	2500	ND	ND	4100	2500	3300
Pyrene	50000	ND	19000	ND	ND	3400	ND	ND	3000	2800	4200
Total C-PAHs	10000		49500						2100		11900
Toal Semi-Volatiles	500000		113600	2200		12800			16200	14700	28900

NA - Not analyzed
ND - Not detected. Zero value assumed in estimating tota
* Maximum Guidance of 50 ppm (50,000 ug/kg) for non-carcinogenic semi-volatil
** Updated April 10, 2001 Memo from M. O'Toole
Constituents With Levels Above TAGM 4046 Value

PRIVILEGED AND CONFIDENTIAL - PREPARED AT THE REQUEST OF GENERAL MOTORS COUNSEL

Table 4
Organic Compound Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (ug/kg)	PAOC 7										PAOC 8			
		BP-3-8 4-8	BP-3-30 24-30	BP-10-8 4-8	BP-10-8D 4-8	BP-10-30 24-30	BP-13-8 4-8	BP-13-30 24-30	BP-14-8 4-8	BP-14-30 24-30	FB-01 NA	BP-21-2 0-2	BP-22-2 0-2	BP-23-2 0-2	BP-24-2 0-2
TCL Organics(ug/kg)															
Methylene Chloride	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene(M+P)	1200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	50000	ND	ND	ND	2600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	41000	ND	ND	ND	2800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50000	ND	ND	ND	5100	4000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(A)Anthracene	224 or MDL	ND	ND	6100	13000	11000	450	2200	570	5300	ND	ND	ND	ND	ND
Benzo(A)Pyrene	61 or MDL	ND	ND	8100	15000	16000	480	2200	610	6100	ND	ND	ND	ND	ND
Benzo(B)Fluoranthene	61 or MDL	410	ND	13000	21000	35000	630	3100	790	9000	ND	ND	ND	ND	ND
Benzo(G,H,I)Perylene	50000	ND	ND	3800	3900	7700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(K)Fluoranthene	610 or MDL	ND	ND	6700	15000	16000	420	ND	660	3600	ND	ND	ND	ND	ND
Benzyl Alcohol	50000*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	6600	490	5100	3200	30000	3700	13000	10000	110000	ND	ND	ND	14000	ND
Di-N-Butylphthalate	8100	ND	ND	2700	ND	21000	ND	ND	ND	5100	ND	ND	ND	ND	ND
Carbazole	50000*	ND	ND	ND	ND	57000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ideno(1,2,3-CD)Pyrene	3200	ND	ND	3800	6500	7700	ND	ND	ND	2000	ND	ND	ND	ND	ND
4-Chloroaniline	220 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	400	ND	ND	6600	13000	13000	430	2500	540	6000	ND	ND	ND	ND	ND
Dibenzo(A,H)Anthracene	14 or MDL	ND	ND	ND	3200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	7100	ND	ND	ND	ND	ND	ND	ND	750	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	390	ND	ND	ND	11000	ND	ND	490	11000	9.6	43000	4500 J	ND	220 J
Fluoranthene	50000	600	440	6700	17000	22000	770	4500	880	8800	ND	ND	ND	ND	ND
Fluorene	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	430 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	500 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	360	ND	2800	13000	18000	380	2300	ND	3800	ND	ND	ND	ND	ND
Pyrene	50000	490	ND	8100	18000	28000	740	4200	940	10000	ND	ND	ND	ND	ND
Total C-PAHs	10000	410		44300	86700	98700	2410	10000	3170	32000					
Toal Semi-Volatiles	500000	8850	930	73500	152300	297400	8000	34000	16230	180700	9.6	43000	4500J	14000	220J

NA - Not analyzed
ND - Not detected. Zero value assumed in estimating tota
* Maximum Guidance of 50 ppm (50,000 ug/kg) for non-carcinogenic semi-volatil
** Updated April 10, 2001 Memo from M. O'Toole
Constituents With Levels Above TAGM 4046 Value

PRIVILEGED AND CONFIDENTIAL - PREPARED AT THE REQUEST OF GENERAL MOTORS COUNSEL

Table 4
Organic Compound Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (ug/kg)	PAOC 8	PAOC 9											
		BP-25-2 0-2	BP-26-6 0-6	BP-26-16 12-16	BP-27-6 0-6	BP-27-16 12-16	BP-28-6 0-6	BP-28-6D 0-6	BP-28-16 12-16	BP-28-56 50-56	BP-29-6 0-6	BP-29-16 12-16	BP-30-6 0-6	BP-30-16 12-16
TCL Organics(ug/kg)														
Methylene Chloride	100	NA	8.7	18	6	ND	ND	6	ND	ND	8.7	18	7.4	ND
Toluene	1500	NA	34	70	32	15	10	23	16	ND	34	70	7.5	ND
Xylene(M+P)	1200	NA	5.8	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	50000	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Acenaphthylene	41000	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Anthracene	50000	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Benzo(A)Anthracene	224 or MDL	ND	ND	NA	ND	NA	4500	4800	NA	NA	ND	NA	NA	NA
Benzo(A)Pyrene	61 or MDL	ND	ND	NA	ND	NA	3900	4200	NA	NA	ND	NA	NA	NA
Benzo(B)Fluoranthene	61 or MDL	ND	ND	NA	1900	NA	4200	5200	NA	NA	ND	NA	NA	NA
Benzo(G,H,I)Perylene	50000	ND	ND	NA	ND	NA	2100	2100	NA	NA	ND	NA	NA	NA
Benzo(K)Fluoranthene	610 or MDL	ND	ND	NA	ND	NA	2800	3100	NA	NA	ND	NA	NA	NA
Benzyl Alcohol	50000*	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Butyl Benzyl Phthalate	50000	ND	8700	NA	ND	NA	ND	ND	NA	NA	20000	NA	NA	NA
Di-N-Butylphthalate	8100	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Carbazole	50000*	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Ideno(1,2,3-CD)Pyrene	3200	ND	ND	NA	ND	NA	1900	2000	NA	NA	ND	NA	NA	NA
4-Chloroaniline	220 or MDL	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Chrysene	400	ND	ND	NA	ND	NA	3900	4100	NA	NA	ND	NA	NA	NA
Dibenzo(A,H)Anthracene	14 or MDL	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Dibenzofuran	6200	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Diethylphthalate	7100	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Bis(2-Ethylhexyl)Phthalate	50000	580	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Fluoranthene	50000	ND	3600	NA	1900	NA	7100	7500	NA	NA	ND	NA	NA	NA
Fluorene	50000	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
2-Methylnaphthalene	36400	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Naphthalene	13000	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
2-Nitroaniline	430 or MDL	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
3-Nitroaniline	500 or MDL	ND	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA
Phenanthrene	50000	ND	2300 J	NA	ND	NA	2600	3000	NA	NA	ND	NA	NA	NA
Pyrene	50000	ND	3700	NA	2300	NA	8300	8400	NA	NA	ND	NA	NA	NA
Total C-PAHs	10000				1900		21200	23400						
Toal Semi-Volatiles	500000	580	18300		6100		41300	44400			20000			

NA - Not analyzed
ND - Not detected. Zero value assumed in estimating tota
* Maximum Guidance of 50 ppm (50,000 ug/kg) for non-carcinogenic semi-volatil
** Updated April 10, 2001 Memo from M. O'Toole
Constituents With Levels Above TAGM 4046 Value

PRIVILEGED AND CONFIDENTIAL - PREPARED AT THE REQUEST OF GENERAL MOTORS COUNSEL

Table 4
Organic Compound Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (ug/kg)	PAOC 12								
		NB-4 8-12	NB-5 8-12	NB-7-12 8-12	NB-8-12 8-12	NB-9-12 8-12	NB-10-12 8-12	NB-10-12D 8-12	NB-11-12 8-2	NB-14-12 8-12
TCL Organics(ug/kg)										
Methylene Chloride	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene(M+P)	1200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	50000	3000	8400	ND	ND	ND	ND	2900	ND	ND
Acenaphthylene	41000	4700	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50000	9400	8400	ND	ND	ND	2400	5800	ND	ND
Benzo(A)Anthracene	224 or MDL	14000	16000	ND	ND	22000	5900	11000	ND	860
Benzo(A)Pyrene	61 or MDL	11000	14000	ND	ND	ND	4700	8400	ND	730
Benzo(B)Fluoranthene	61 or MDL	15000	19000	ND	ND	29000	6000	12000	ND	1200
Benzo(G,H,I)Perylene	50000	3800	4900	ND	ND	ND	ND	2900	ND	390
Benzo(K)Fluoranthene	610 or MDL	4800	7000	ND	ND	ND	2400	4700	ND	490
Benzyl Alcohol	50000*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-N-Butylphthalate	8100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	50000*	ND	5400	ND	ND	ND	ND	ND	ND	ND
Ideno(1,2,3-CD)Pyrene	3200	4100	5600	ND	ND	ND	ND	3100	ND	400
4-Chloroaniline	220 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	400	14000	16000	ND	ND	23000	6200	11000	ND	1100
Dibenzo(A,H)Anthracene	14 or MDL	2300	2800	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	7100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	ND	ND	ND	ND	850
Fluoranthene	50000	25000	30000	ND	ND	54000	12000	21000	ND	1900
Fluorene	50000	9400	5600	ND	ND	ND	ND	4000	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13000	ND	6100	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	430 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	500 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50000	32000	27000	ND	ND	41000	10000	21000	ND	1200
Pyrene	50000	25000	28000	ND	ND	45000	9500	16000	ND	1900
Total C-PAHs	10000	65200	80400			74000	25200	50200		4780
Toal Semi-Volatiles	500000	177500	204200			214000	59100	123800		11020

NA - Not analyzed
ND - Not detected. Zero value assumed in estimating tota
* Maximum Guidance of 50 ppm (50,000 ug/kg) for non-carcinogenic semi-volatil
** Updated April 10, 2001 Memo from M. O'Toole
Constituents With Levels Above TAGM 4046 Value

Table 4
Organic Compound Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (ug/kg)	PAOC 13				
		CP-1-18 12-18	CP-2-18 12-18	CP-2-18D 12-18	CP-3-18 12-18	CP-4-18 12-18
TCL Organics(ug/kg)						
Methylene Chloride	100	NA	NA	NA	NA	NA
Toluene	1500	NA	NA	NA	NA	NA
Xylene(M+P)	1200	NA	NA	NA	NA	NA
Acenaphthene	50000	ND	ND	ND	ND	ND
Acenaphthylene	41000	3800	ND	ND	ND	ND
Anthracene	50000	3600	ND	ND	ND	ND
Benzo(A)Anthracene	224 or MDL	16000	2700	2200	2200	ND
Benzo(A)Pyrene	61 or MDL	13000	2400	ND	2000	ND
Benzo(B)Fluoranthene	61 or MDL	18000	3200	2700	2400	ND
Benzo(G,H,I)Perylene	50000	4200	ND	ND	ND	ND
Benzo(K)Fluoranthene	610 or MDL	12000	ND	ND	ND	ND
Benzyl Alcohol	50000*	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	50000	4200	ND	ND	ND	5500
Di-N-Butylphthalate	8100	ND	ND	ND	ND	ND
Carbazole	50000*	ND	ND	ND	ND	ND
Ideno(1,2,3-CD)Pyrene	3200	4800	ND	ND	ND	ND
4-Chloroaniline	220 or MDL	ND	ND	ND	ND	ND
Chrysene	400	14000	2500	2100	2000	ND
Dibenzo(A,H)Anthracene	14 or MDL	2300	ND	ND	ND	ND
Dibenzofuran	6200	ND	ND	ND	ND	ND
Diethylphthalate	7100	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	50000	ND	ND	ND	ND	ND
Fluoranthene	50000	27000	4800	3800	4100	ND
Fluorene	50000	ND	ND	ND	ND	ND
2-Methylnaphthalene	36400	ND	ND	ND	ND	ND
Naphthalene	13000	ND	ND	ND	ND	ND
2-Nitroaniline	430 or MDL	ND	ND	ND	ND	ND
3-Nitroaniline	500 or MDL	ND	ND	ND	ND	ND
Phenanthrene	50000	9500	ND	2100	2200	ND
Pyrene	50000	25000	4500	3700	4000	ND
Total C-PAHs	10000	80100	10800	7000	8600	
Toal Semi-Volatiles	500000	157400	20100	16600	18900	5500

NA - Not analyzed
ND - Not detected. Zero value assumed in estimating tota
* Maximum Guidance of 50 ppm (50,000 ug/kg) for non-carcinogenic semi-volatil
** Updated April 10, 2001 Memo from M. O'Toole
Constituents With Levels Above TAGM 4046 Value

Table 5
Inorganic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (mg/kg)	PAOC 8								
		BP-SLD-1 NA	BP-21-2 0-2	BP-21-8 4-8	BP-21-16 12-16	BP-21-60 54-60	BP-22-2 0-2	BP-22-8 4-8	BP-22-16 12-16	BP-22-61 55-61
TAL Inorganics (mg/Kg)										
Aluminum	SB	2940	5620	7320	7670	8340	7180	7580	8230	7960
Antimony	SB	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7.5 or SB	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	300 or SB	1200	341	13.4	9.86	22.9	220	17.7	12.9	9.39
Cadmium	1 or SB	4.24	1.77	ND	ND	ND	ND	ND	ND	ND
Calcium	SB	7480	1540	1140	1510	6200	3130	1350	4960	2590
Chromium	10 or SB	2790	978	12.6	11.1	13.1	12.4	11.2	10.5	10.3
Cobalt	30 or SB	ND	ND	5.46	6.47	6.32	5.43	6.09	5.71	ND
Copper	25 or SB	431	137	11.5	9.99	11.9	17.1	10.9	11.5	10.6
Iron	2000 or SB	119000	25800	17500	16600	18100	17000	18200	16800	16800
Lead	500 (Urban) or SB	16400	807	6.77	ND	ND	81.5	10.3	6.94	ND
Magnesium	SB	393	2050	3810	4440	4440	3990	4190	4580	4570
Manganese	SB	9500	3410	468	434	280	196	277	230	155
Mercury	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	13 or SB	3770	895	249	286	45	31.4	22.9	17.8	15.1
Potassium	SB	977	944	683	697	984	879	912	819	844
Selenium	2 or SB	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	SB	3640	503	99.1	116	187	199	113	130	123
Vanadium	150 or SB	ND	ND	12.2	10.4	12.1	14.5	13	10.1	9.9
Zinc	20 or SB	76300	21400	1830	507	161	276	433	79.4	41.6

ND - Not detected.

Constituents With Levels Above TAGM 4046, not necessarily greater than site background

Table 5
Inorganic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (mg/kg)	PAOC 8							
		BP-23-2 0-2	BP-23-8 4-8	BP-23-8D 4-8	BP-23-16 12-16	BP-24-2 0-2	BP-24-8 4-8	BP-24-16 12-16	BP-24-61 55-61
TAL Inorganics (mg/Kg)									
Aluminum	SB	6760	7620	6910	7260	6430	7330	6460	8210
Antimony	SB	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7.5 or SB	ND	ND	ND	ND	ND	ND	ND	ND
Barium	300 or SB	303	21.5	16	42.1	44.1	12.9	10.7	9.96
Cadmium	1 or SB	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	SB	5590	3410	2300	2480	1650	1880	1460	3700
Chromium	10 or SB	36.7	11.3	10.6	14.3	9.68	10.2	12.2	11
Cobalt	30 or SB	5.76	6.17	5.38	5.39	ND	5.45	ND	ND
Copper	25 or SB	24.7	13.4	11.3	14.3	10.9	10.5	10.6	10.9
Iron	2000 or SB	15200	17800	16300	16300	16100	16900	15500	18300
Lead	500 (Urban) or SB	114	10.7	8.72	26.6	8.75	ND	ND	ND
Magnesium	SB	3740	4250	3850	4100	3580	4210	4430	4590
Manganese	SB	954	402	253	277	182	171	151	172
Mercury	0.1	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	13 or SB	1090	113	91.4	183	13.2	13.9	16.6	16
Potassium	SB	1970	959	859	1330	954	938	777	741
Selenium	2 or SB	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	SB	397	129	97.4	175	289	136	188	135
Vanadium	150 or SB	9.51	12.2	10.6	11	11.2	11	9.85	10.2
Zinc	20 or SB	2930	78.9	67.9	330	37.6	35.6	34.8	41.3

ND - Not detected.

Constituents With Levels Above TAGM 4046, not necessarily greater than site background

Table 5
Inorganic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (mg/kg)	PAOC 8				PAOC 9	
		BP-25-2 0-2	BP-25-8 4-8	BP-25-16 12-16	BP-25-61 55-61	BP-26-6 0-6	BP-26-16 12-16
TAL Inorganics (mg/Kg)							
Aluminum	SB	7500	8550	8110	7380	7760	8770
Antimony	SB	ND	ND	ND	ND	40.9	13
Arsenic	7.5 or SB	ND	ND	ND	ND	18	5.25
Barium	300 or SB	153	15	11.8	10.4	3620	1730
Cadmium	1 or SB	ND	ND	ND	ND	4.22	2.19
Calcium	SB	3730	2730	2080	5490	14100	15200
Chromium	10 or SB	11.1	11.7	10.7	10.4	69.5	49.1
Cobalt	30 or SB	5.91	6.11	6.09	ND	10.1	8.6
Copper	25 or SB	11.7	11.7	10.8	10.6	333	128
Iron	2000 or SB	18700	18300	20500	18100	57900	30900
Lead	500 (Urban) or SB	22.7	ND	ND	ND	3610	1580
Magnesium	SB	5610	5010	5040	4410	5550	9870
Manganese	SB	270	210	174	160	372	453
Mercury	0.1	ND	ND	ND	ND	ND	ND
Nickel	13 or SB	33.1	19.5	17.2	14.7	41	28.1
Potassium	SB	938	1080	783	784	1710	2040
Selenium	2 or SB	ND	ND	ND	ND	ND	ND
Sodium	SB	1170	202	85.5	169	988	512
Vanadium	150 or SB	11.7	12.7	11.5	9.87	25.2	24.3
Zinc	20 or SB	70.6	42.9	41.5	37.7	1490	567

ND - Not detected.

Constituents With Levels Above TAGM 4046, not necessarily greater than site background

PRIVILEGED AND CONFIDENTIAL - PREPARED AT THE REQUEST OF GENERAL MOTORS COUNSEL

Table 5
Inorganic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description / Sample Location / Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (mg/kg)	PAOC 9					
		BP-27-6 0-6	BP-27-16 12-16	BP-28-6 0-6	BP-28-6D 0-6	BP-28-16 12-16	BP-28-56 50-56
TAL Inorganics (mg/Kg)							
Aluminum	SB	8520	9200	7560	6590	6550	4990
Antimony	SB	9.24	ND	ND	ND	ND	ND
Arsenic	7.5 or SB	3.37	29.6	2	2.11	1.54	5.37
Barium	300 or SB	824	255	388	476	315	176
Cadmium	1 or SB	1.47	1.57	0.79	0.919	0.623	ND
Calcium	SB	7000	12100	8000	20000	5600	8580
Chromium	10 or SB	31.7	75.1	17.3	15.8	17.4	31.2
Cobalt	30 or SB	8.13	13.3	6.19	5.44	5.64	ND
Copper	25 or SB	62.9	207	33	34.1	30.7	68.1
Iron	2000 or SB	26600	94600	20500	17000	18300	17300
Lead	500 (Urban) or SB	1500	152	336	276	210	231
Magnesium	SB	4650	6330	4550	4040	3840	4050
Manganese	SB	260	521	224	193	190	271
Mercury	0.1	ND	0.23	ND	0.222	ND	ND
Nickel	13 or SB	20.5	127	18.3	15.1	15.8	23.9
Potassium	SB	2410	4660	1080	982	907	722
Selenium	2 or SB	ND	ND	ND	0.667	0.551	ND
Sodium	SB	4060	838	301	371	310	234
Vanadium	150 or SB	21.2	203	13.4	13.1	12.2	11.5
Zinc	20 or SB	286	147	148	184	139	167

ND - Not detected.

Constituents With Levels Above TAGM 4046, not necessarily greater than site background

Table 5
Inorganic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sampling Area Description Sample Location Sample Depth (in.)	Unrestricted Use Screening Value TAGM 4046 (mg/kg)	PAOC 9			
		BP-29-6 0-6	BP-29-16 12-16	BP-30-6 0-6	BP-30-16 12-16
TAL Inorganics (mg/Kg)					
Aluminum	SB	6450	8550	8990	6510
Antimony	SB	ND	ND	12.4	ND
Arsenic	7.5 or SB	5.16	4.9	4.05	4.33
Barium	300 or SB	3020	3330	544	183
Cadmium	1 or SB	0.62	0.713	1.62	0.82
Calcium	SB	16600	22000	8740	10800
Chromium	10 or SB	26.9	36.4	34.4	21.5
Cobalt	30 or SB	6.19	9.2	9.10	6.95
Copper	25 or SB	88.5	85.8	207	64.7
Iron	2000 or SB	22800	27300	39700	19400
Lead	500 (Urban) or SB	427	419	752	345
Magnesium	SB	4410	5290	4310	6600
Manganese	SB	231	234	340	230
Mercury	0.1	ND	ND	0.308	0.262
Nickel	13 or SB	52.5	62.6	24.4	18.3
Potassium	SB	2120	3890	2100	1480
Selenium	2 or SB	ND	ND	ND	ND
Sodium	SB	960	901	448	292
Vanadium	150 or SB	12	19.8	21.3	17.6
Zinc	20 or SB	482	512	447	283

ND - Not detected.

Constituents With Levels Above TAGM 4046, not necessarily greater than site background

Table 6
Arsenic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sample Area Descriptions

PAOC 2								
Sample Location	**Unrestricted Use**	**B-2H**	**B2G,S-1,2-4**	**B2E,S-1,2-4**	**B2F,S-1,3-5**			
Sample Depth (in.)	**Screening Value**	0-24	24-48	24-48	36-60			
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**8.56**	**2.07**	**2.37**			
PAOC 4								
Sample Location	**Unrestricted Use**	**B4D,S-1,1-3**	**B4E,S-1,1-3**	**B4G,S-1,1-3**	**B4F,S-1,1-3**	**B4H,S-1,1-3**	**B4I,S-1,1-3**	
Sample Depth (in.)	**Screening Value**	12-36	12-36	12-36	12-36	12-36	12-36	
Arsenic (mg/kg)	**7.5 or SB**	**4.39**	**ND**	**ND**	**18.8**	**27**	**8.8**	
PAOC 7								
Sample Location	**Unrestricted Use**	**BP-1-2**	**BP-1-8**	**BP-2-2**	**BP-2-8**	**BP-2-16**	**BP-2-30**	**BP-3-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	0-2	4-8	12-16	24-30	0-2
Arsenic (mg/kg)	**7.5 or SB**	**15**	**6.02**	**14.5**	**13.3**	**13.2**	**20.1**	**1.02**
Sample Location	**Unrestricted Use**	**BP-3-8**	**BP-4-2**	**BP-4-8**	**BP-4-16**	**BP-4-30**	**BP-5-2**	**BP-5-8**
Sample Depth (in.)	**Screening Value**	4-8	0-2	4-8	12-16	24-30	0-2	4-8
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**1.07**	**1.07**	**1.22**	**1.15**	**1.01**	**1.01**
Sample Location	**Unrestricted Use**	**BP-6-2**	**BP-6-8**	**BP-6-16**	**BP-6-30**	**BP-7-2**	**BP-7-8**	**BP-8-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	12-16	24-30	0-2	4-8	0-2
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**11.9**
Sample Location	**Unrestricted Use**	**BP-8-8**	**BP-8-16**	**BP-8-30**	**BP-9-2**	**BP-9-8**	**BP-10-2**	**BP-10-2D**
Sample Depth (in.)	**Screening Value**	4-8	12-16	24-30	0-2	4-8	0-2	0-2
Arsenic (mg/kg)	**7.5 or SB**	**6.83**	**ND**	**ND**	**ND**	**3.34**	**12.7**	**10.8**
Sample Location	**Unrestricted Use**	**BP-10-8**	**BP-10-8D**	**BP-10-16**	**BP-10-16D**	**BP-10-30**	**BP-11-2**	**BP-11-8**
Sample Depth (in.)	**Screening Value**	4-8	4-8	12-16	12-16	24-30	0-2	4-8
Arsenic (mg/kg)	**7.5 or SB**	**16.2**	**18.6**	**34.6**	**40.6**	**51.9**	**1.46**	**ND**
Sample Location	**Unrestricted Use**	**BP-12-2**	**BP-12-8**	**BP-12-16**	**BP-12-30**	**BP-13-2**	**BP-13-8**	**BP-14-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	12-16	24-30	0-2	4-8	0-2
Arsenic (mg/kg)	**7.5 or SB**	**7**	**9.6**	**29.5**	**13.4**	**5.21**	**2.59**	**12.1**
Sample Location	**Unrestricted Use**	**BP-14-8**	**BP-14-16**	**BP-14-30**	**BP-15-2**	**BP-15-8**	**BP-16-2**	**BP-16-8**
Sample Depth (in.)	**Screening Value**	4-8	12-16	24-30	0-2	4-8	0-2	4-8
Arsenic (mg/kg)	**7.5 or SB**	**1.19**	**2.3**	**9.5**	**ND**	**ND**	**ND**	**ND**
Sample Location	**Unrestricted Use**	**BP-16-16**	**BP-16-30**	**BP-17-2**	**BP-17-8**	**BP-18-2**	**BP-18-8**	**BP-18-16**
Sample Depth (in.)	**Screening Value**	12-16	24-30	0-2	4-8	0-2	4-8	12-16
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**3.13**
Sample Location	**Unrestricted Use**	**BP-18-30**	**BP-19-2**	**BP-19-8**	**BP-20-2**	**BP-20-8**	**BP-20-16**	**BP-20-30**
Sample Depth (in.)	**Screening Value**	24-30	0-2	4-8	0-2	4-8	12-16	24-30
Arsenic (mg/kg)	**7.5 or SB**	**4.67**	**2.78**	**4.71**	**5.72**	**4.25**	**45.5**	**84.6**

Constituents With Levels Above TAGM 4046 Values

Table 6
Arsenic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sample Area Descriptions

PAOC 8								
Sample Location	**Unrestricted Use**	**BP-21-2**	**BP-21-8**	**BP-SLD-1**	**BP-21-16**	**BP-21-60**	**BP-22-2**	**BP-22-8**
Sample Depth (in.)	**Screening Value**	0-2	4-8	NA	12-16	54-60	0-2	4-8
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Sample Location	**Unrestricted Use**	**BP-22-16**	**BP-22-61**	**BP-23-2**	**BP-23-8**	**BP-23-8D**	**BP-23-16**	**BP-24-2**
Sample Depth (in.)	**Screening Value**	12-16	55-61	0-2	4-8	4-8	12-16	0-2
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Sample Location	**Unrestricted Use**	**BP-24-8**	**BP-24-16**	**BP-24-61**	**BP-25-2**	**BP-25-8**	**BP-25-16**	**BP-25-61**
Sample Depth (in.)	**Screening Value**	4-8	12-16	55-61	0-2	4-8	12-16	55-61
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
PAOC 9								
Sample Location	**Unrestricted Use**	**BP-26-6**	**BP-26-16**	**BP-27-6**	**BP-27-16**	**BP-28-6**	**BP-28-6D**	**BP-28-16**
Sample Depth (in.)	**Screening Value**	0-6	12-16	0-6	12-16	0-6	0-6	12-16
Arsenic (mg/kg)	**7.5 or SB**	**18**	**5.25**	**3.37**	**29.6**	**2**	**2.11**	**1.54**
Sample Location	**Unrestricted Use**	**BP-28-56**	**BP-29-6**	**BP-29-16**	**BP-30-16**			
Sample Depth (in.)	**Screening Value**	50-56	0-6	12-16	12-16			
Arsenic (mg/kg)	**7.5 or SB**	**5.37**	**5.16**	**4.9**	**4.33**			
BODY PLANT BASEMENT								
Sample Location	**Unrestricted Use**	**BP-31-2**	**BP-31-8**	**BP-32-2**	**BP-32-8**	**BP-33-2**	**BP-33-8**	**BP-34-2**
Sample Depth (in.)	**Screening Value**	0-2	6-8	0-2	6-8	0-2	6-8	0-2
Arsenic (mg/kg)	**7.5 or SB**	**1.74**	**2.79**	**1.72**	**ND**	**62.4**	**2.07**	**1.42**
Sample Location	**Unrestricted Use**	**BP-34-8**	**BP-35-2**	**BP-35-8**	**BP-36-2**	**BP-36-8**	**BP-37-2**	**BP-37-8**
Sample Depth (in.)	**Screening Value**	6-8	0-2	6-8	0-2	6-8	0-2	6-8
Arsenic (mg/kg)	**7.5 or SB**	**6.27**	**6.45**	**ND**	**11.1**	**21.2**	**2.36**	**ND**
Sample Location	**Unrestricted Use**	**BP-38-2**	**BP-38-8**	**BP-39-2**	**BP-39-8**	**BP-39-20**	**BP-40-2**	**BP-40-8**
Sample Depth (in.)	**Screening Value**	0-2	6-8	0-2	6-8	0-2	0-2	6-8
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Constituents With Levels Above TAGM 4046 Values

Table 6
Arsenic Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sample Area Descriptions

PAOC 12								
Sample Location	**Unrestricted Use**	**NB-1-2**	**NB-1-8**	**NB-2-2**	**NB-2-8**	**NB-3-2**	**NB-3-8**	**NB-4-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	0-2	4-8	0-2	4-8	0-2
Arsenic (mg/kg)	**7.5 or SB**	**3.81**	**ND**	**1.97**	**3.16**	**ND**	**ND**	**4.03**
Sample Location	**Unrestricted Use**	**NB-4-8**	**NB-4**	**NB-5-8**	**NB-5**	**NB-6-2**	**NB-6-8**	**NB-7-2**
Sample Depth (in.)	**Screening Value**	4-8	8-12	4-8	8-12	0-2	4-8	0-2
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**5.18**	**ND**	**3.43**	**ND**	**ND**	**3.53**
Sample Location	**Unrestricted Use**	**NB-7-8**	**NB-7-12**	**NB-8-2**	**NB-8-2D**	**NB-8-8**	**NB-8-12**	**NB-9-2**
Sample Depth (in.)	**Screening Value**	4-8	8-12	0-2	0-2	6-8	8-12	0-2
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Sample Location	**Unrestricted Use**	**NB-9-8**	**NB-9-12**	**NB-10-2**	**NB-10-8**	**NB-10-12**	**NB-11-2**	**NB-11-8**
Sample Depth (in.)	**Screening Value**	4-8	8-12	0-2	4-8	8-12	0-2	4-8
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**ND**	**ND**	**ND**	**4.57**	**ND**
Sample Location	**Unrestricted Use**	**NB-11-12**	**NB-12-2**	**NB-12-8**	**NB-13-2**	**NB-13-8**	**NB-14-2**	**NB-14-2D**
Sample Depth (in.)	**Screening Value**	8-12	0-2	4-8	0-2	4-8	0-2	0-2
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**11.3**	**ND**	**2.86**	**ND**	**3.36**	**6.2**
Sample Location	**Unrestricted Use**	**NB-14-8**	**NB-14-12**	**NB-15-2**	**NB-15-8**	**NB-16-2**	**NB-16-8**	
Sample Depth (in.)	**Screening Value**	6-8	8-12	0-2	4-8	0-2	4-8	
Arsenic (mg/kg)	**7.5 or SB**	**ND**	**ND**	**2.9**	**ND**	**ND**	**ND**	

Constituents With Levels Above TAGM 4046 Values

Table 7
Lead Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sample Area Descriptions

PAOC 2								
Sample Location	**Unrestricted Use**	**B-2H**	**B2G,S-1**	**B2E,S-1**	**B2F,S-1**			
Sample Depth (in.)	**Screening Value**	0-24	24-48	24-48	36-60			
Lead (mg/kg)	**500 or SB**	**ND**	**247**	**89.2**	**1100**			
PAOC 4								
Sample Location	**Unrestricted Use**	**B4D,S-1**	**B4E,S-1**	**B4G,S-1**	**B4F,S-1**	**B4H,S-1**	**B4I,S-1**	
Sample Depth (in.)	**Screening Value**	12-36	12-36	12-36	12-36	12-36	12-36	
Lead (mg/kg)	**500 or SB**	**132**	**26.8**	**34.4**	**1940**	**596**	**34.4**	
PAOC 7								
Sample Location	**Unrestricted Use**	**BP-1-2**	**BP-1-8**	**BP-2-2**	**BP-2-8**	**BP-2-16**	**BP-2-30**	**BP-3-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	0-2	4-8	12-16	24-30	0-2
Lead (mg/kg)	**500 or SB**	**4860**	**1020**	**4260**	**2600**	**4540**	**3780**	**226**
Sample Location	**Unrestricted Use**	**BP-3-8**	**BP-4-2**	**BP-4-8**	**BP-4-16**	**BP-4-30**	**BP-5-2**	**BP-5-8**
Sample Depth (in.)	**Screening Value**	4-8	0-2	4-8	12-16	24-30	0-2	4-8
Lead (mg/kg)	**500 or SB**	**185**	**67.3**	**13.7**	**6.49**	**13.6**	**77**	**18.9**
Sample Location	**Unrestricted Use**	**BP-6-2**	**BP-6-8**	**BP-6-16**	**BP-6-30**	**BP-7-2**	**BP-7-8**	**BP-8-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	12-16	24-30	0-2	4-8	0-2
Lead (mg/kg)	**500 or SB**	**789**	**13**	**20.3**	**21.7**	**202**	**167**	**1850**
Sample Location	**Unrestricted Use**	**BP-8-8**	**BP-8-16**	**BP-8-30**	**BP-9-2**	**BP-9-8**	**BP-10-2**	**BP-10-2D**
Sample Depth (in.)	**Screening Value**	4-8	12-16	24-30	0-2	4-8	0-2	0-2
Lead (mg/kg)	**500 or SB**	**1350**	**285**	**122**	**82.9**	**1090**	**2130**	**1030**
Sample Location	**Unrestricted Use**	**BP-10-8**	**BP-10-8D**	**BP-10-16**	**BP-10-16D**	**BP-10-30**	**BP-11-2**	**BP-11-8**
Sample Depth (in.)	**Screening Value**	4-8	4-8	12-16	12-16	24-30	0-2	4-8
Lead (mg/kg)	**500 or SB**	**2520**	**2030**	**6400**	**7320**	**8090**	**510**	**288**
Sample Location	**Unrestricted Use**	**BP-12-2**	**BP-12-8**	**BP-12-16**	**BP-12-30**	**BP-13-2**	**BP-13-8**	**BP-14-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	12-16	24-30	0-2	4-8	0-2
Lead (mg/kg)	**500 or SB**	**1870**	**2320**	**11300**	**2200**	**917**	**677**	**2170**
Sample Location	**Unrestricted Use**	**BP-14-8**	**BP-14-16**	**BP-14-30**	**BP-15-2**	**BP-15-8**	**BP-16-2**	**BP-16-8**
Sample Depth (in.)	**Screening Value**	4-8	12-16	24-30	0-2	4-8	0-2	4-8
Lead (mg/kg)	**500 or SB**	**262**	**630**	**2750**	**17.9**	**63.5**	**6.11**	**5.66**
Sample Location	**Unrestricted Use**	**BP-16-16**	**BP-16-30**	**BP-17-2**	**BP-17-8**	**BP-18-2**	**BP-18-8**	**BP-18-16**
Sample Depth (in.)	**Screening Value**	12-16	24-30	0-2	4-8	0-2	4-8	12-16
Lead (mg/kg)	**500 or SB**	**15.3**	**61.5**	**427**	**127**	**12.5**	**3390**	**836**
Sample Location	**Unrestricted Use**	**BP-18-30**	**BP-19-2**	**BP-19-8**	**BP-20-2**	**BP-20-8**	**BP-20-16**	**BP-20-30**
Sample Depth (in.)	**Screening Value**	24-30	0-2	4-8	0-2	4-8	12-16	24-30
Lead (mg/kg)	**500 or SB**	**492**	**1170**	**684**	**1280**	**462**	**5490**	**3000**

Constituents With Levels Above TAGM 4046 Values

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Table 7
Lead Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sample Area Descriptions

PAOC 8								
Sample Location	**Unrestricted Use**	**BP-21-2**	**BP-21-8**	**BP-SLD-1**	**BP-21-16**	**BP-21-60**	**BP-22-2**	**BP-22-8**
Sample Depth (in.)	**Screening Value**	0-2	4-8	NA	12-16	54-60	0-2	4-8
Lead (mg/kg)	**500 or SB**	**807**	**6.77**	**16400**	**ND**	**ND**	**81.5**	**10.3**
Sample Location	**Unrestricted Use**	**BP-22-16**	**BP-22-61**	**BP-23-2**	**BP-23-8**	**BP-23-8D**	**BP-23-16**	**BP-24-2**
Sample Depth (in.)	**Screening Value**	12-16	55-61	0-2	4-8	4-8	12-16	0-2
Lead (mg/kg)	**500 or SB**	**6.94**	**ND**	**114**	**10.7**	**8.72**	**26.6**	**8.75**
Sample Location	**Unrestricted Use**	**BP-24-8**	**BP-24-16**	**BP-24-61**	**BP-25-2**	**BP-25-8**	**BP-25-16**	**BP-25-61**
Sample Depth (in.)	**Screening Value**	4-8	12-16	55-61	0-2	4-8	12-16	55-61
Lead (mg/kg)	**500 or SB**	**ND**	**ND**	**ND**	**22.7**	**ND**	**ND**	**ND**
PAOC 9								
Sample Location	**Unrestricted Use**	**BP-26-6**	**BP-26-16**	**BP-27-6**	**BP-27-16**	**BP-28-6**	**BP-28-6D**	**BP-28-16**
Sample Depth (in.)	**Screening Value**	0-6	12-16	0-6	12-16	0-6	0-6	12-16
Lead (mg/kg)	**500 or SB**	**3610**	**1580**	**1500**	**152**	**336**	**276**	**210**
Sample Location	**Unrestricted Use**	**BP-28-56**	**BP-29-6**	**BP-29-16**	**BP-30-16**			
Sample Depth (in.)	**Screening Value**	50-56	0-6	12-16	12-16			
Lead (mg/kg)	**500 or SB**	**231**	**427**	**419**	**345**			
BODY PLANT BASEMENT								
Sample Location	**Unrestricted Use**	**BP-31-2**	**BP-31-8**	**BP-32-2**	**BP-32-8**	**BP-33-2**	**BP-33-8**	**BP-34-2**
Sample Depth (in.)	**Screening Value**	0-2	6-8	0-2	6-8	0-2	6-8	0-2
Lead (mg/kg)	**500 or SB**	**207**	**128**	**168**	**19.9**	**10500**	**613**	**209**
Sample Location	**Unrestricted Use**	**BP-34-8**	**BP-35-2**	**BP-35-8**	**BP-36-2**	**BP-36-8**	**BP-37-2**	**BP-37-8**
Sample Depth (in.)	**Screening Value**	6-8	0-2	6-8	0-2	6-8	0-2	6-8
Lead (mg/kg)	**500 or SB**	**926**	**937**	**8.93**	**2420**	**3670**	**471**	**95.9**
Sample Location	**Unrestricted Use**	**BP-38-2**	**BP-38-8**	**BP-39-2**	**BP-39-8**	**BP-39-20**	**BP-40-2**	**BP-40-8**
Sample Depth (in.)	**Screening Value**	0-2	6-8	0-2	6-8	0-2	0-2	6-8
Lead (mg/kg)	**500 or SB**	**58.2**	**9.61**	**26.8**	**5.51**	**25.4**	**12.2**	**8.49**

Constituents With Levels Above TAGM 4046 Values

Table 7
Lead Analysis and TAGM Values
Former Tarrytown Assembly Plant

Phase III EOC Sample Area Descriptions

PAOC 12								
Sample Location	**Unrestricted Use**	**NB-1-2**	**NB-1-8**	**NB-2-2**	**NB-2-8**	**NB-3-2**	**NB-3-8**	**NB-4**
Sample Depth (in.)	**Screening Value**	0-2	6-8	0-2	4-8	0-2	4-8	8-12
Lead (mg/kg)	**500 or SB**	**1330**	**84**	**477**	**277**	**148**	**6570**	**115**
Sample Location	**Unrestricted Use**	**NB-4-2**	**NB-4-8**	**NB-5-8**	**NB-5**	**NB-6-2**	**NB-6-8**	**NB-7-2**
Sample Depth (in.)	**Screening Value**	0-2	4-8	4-8	8-12	0-2	6-8	0-2
Lead (mg/kg)	**500 or SB**	**166**	**174**	**120**	**105**	**225**	**21.8**	**2310**
Sample Location	**Unrestricted Use**	**NB-7-8**	**NB-7-12**	**NB-8-2**	**NB-8-2D**	**NB-8-8**	**NB-8-12**	**NB-9-2**
Sample Depth (in.)	**Screening Value**	4-8	8-12	0-2	0-2	6-8	8-12	0-2
Lead (mg/kg)	**500 or SB**	**80.7**	**15.5**	**973**	**689**	**18.6**	**75.9**	**95.6**
Sample Location	**Unrestricted Use**	**NB-9-8**	**NB-9-12**	**NB-10-2**	**NB-10-8**	**NB-10-12**	**NB-11-2**	**NB-11-8**
Sample Depth (in.)	**Screening Value**	4-8	8-12	0-2	4-8	8-12	0-2	4-8
Lead (mg/kg)	**500 or SB**	**335**	**347**	**204**	**25.3**	**33.7**	**438**	**13.7**
Sample Location	**Unrestricted Use**	**NB-11-12**	**NB-12-2**	**NB-12-8**	**NB-13-2**	**NB-13-8**	**NB-14-2**	**NB-14-2D**
Sample Depth (in.)	**Screening Value**	8-12	0-2	4-8	0-2	4-8	0-2	0-2
Lead (mg/kg)	**500 or SB**	**18.9**	**449**	**48.8**	**169**	**15.8**	**535**	**484**
Sample Location	**Unrestricted Use**	**NB-14-8**	**NB-14-12**	**NB-15-2**	**NB-15-8**	**NB-16-2**	**NB-16-8**	
Sample Depth (in.)	**Screening Value**	6-8	8-12	0-2	4-8	0-2	4-8	
Lead (mg/kg)	**500 or SB**	**37.1**	**14.5**	**1330**	**6.35**	**86.7**	**55**	

Constituents With Levels Above TAGM 4046 Values

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Table 10
Groundwater Sample Locations
Organic Compound Analysis and Criteria
Former Tarrytown Assembly Plant

Phase III EOC Sample ID No.	NYSDEC Guidance (1)	OW-13	OW-13D	OW-19	OW-20	OW-21	0W-22	OW-23
TCL Organics (ug/l)								
Acetone (2)	50	44	59	ND	25	ND	36	ND
Benzene	1	76	81	ND	ND	ND	14	ND
2-Hexanone	50	ND	ND	ND	ND	ND	11	ND
M+P-Xylene	5	7.9	9.6	ND	ND	ND	5.1	ND
Toluene	5	6.8	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate (2)	5	ND	ND	ND	ND	7.8	ND	ND
2-Methylnaphthalene	NA	54	54	ND	ND	ND	ND	ND

Exceeds Guidance Value

(1) NYSDEC (1998), Ambient Water Quality Standards And Guidance Values
(2) Acetone and bis(2-ethylhexyl) phthalate are attributable to laboratory artifact
ND - Not detected
NA - No guidance value applicable to groundwater
OW -13D is a duplicate sample of OW-13.

Table 11
Supplemental Phase II
Parsons Borings Area Analysis and TAGM Values
Former Tarrytown Assembly Plant

Supplemental Phase II ESI Sampling Area Description	Unrestricted Use Screening Value	East Lot					
Sample Location	**TAGM 4046**	**B-1, S-1**	**B-2,S-4**	**B-3,S-8**	**B-4,S-8**	**B-5S-4A**	**B-5,S-6**
Sample Depth (ft.)	**(mg/kg)**	1-3	7-8	14-14.9	14-16	6-7.5	10-11
RCRA Metals (mg/kg)							
Arsenic	7.5 or SB	ND	ND	ND	8.07	NA	2.79
Barium	300 or SB	108	24	25.2	638	NA	25.8
Cadmium	1 or SB	ND	ND	ND	2.8	NA	ND
Chromium	10 or SB	31	13.5	27.5	27.1	NA	13.3
Lead	500 or SB	31.4	7.01	7.2	1090	NA	7.44
Mercury	0.1	7.3	ND	ND	1.51	NA	ND
Selenium	SB	ND	ND	ND	2.44	NA	ND
TCL Organics (ug/kg)							
Acetone	200	ND	ND	34	130	ND	ND
Methylene Chloride	100	ND	ND	8.1	ND	ND	ND

Note: Sample interval from B-4 comprised of black coarse fill, which was not encountered in B-1, 2, 3 or 5

Constituents With Levels Above TAGM 4046 Values

Appendix A-3

Interim Corrective Measures – 1998 (EMCON 2001)

Table 1
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 7, 7A, 7B, 7C, 7D, 7E Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		Basement Below Welding Area Body Plant PAOC 7								
Sample ID			7A-01	7A-02	7A-02A	7A-03	7A-03A	7A-04	7A-05	7A-06	7A-06A
SAMPLE TYPE			Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)			1.0	1.0	1.0	1.3	1.8	1.2	1.3	1.2	1.2
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)									
Acenaphthene	400	50000	ND	ND	ND	3800	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	ND	6100	6400	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	ND	1300	16000	12000	520	ND	ND	3600	7400
Benzo(a)Pyrene	0.04	61 or MDL	ND	1600	19000	11000	900	ND	ND	4100	10000
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	1800	22000	10000	1100	ND	ND	4000	10000
Benzo(g,h,i)Perylene	0.04	50000	ND	1100	9000	5800	790	ND	ND	ND	5600
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	1300	17000	13000	940	ND	ND	5400	11000
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	1000	9100	5600	640	ND	ND	ND	5300
Chrysene	0.04	400	ND	1500	17000	12000	600	ND	ND	4100	8500
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	470	3900	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	ND	2500	31000	27000	800	ND	ND	8600	17000
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	ND	880	13000	21000	ND	ND	ND	8400	6800
Pyrene	1000	50000	ND	1900	24000	18000	1100	ND	ND	7200	12000
Total C-PAHs	NA	10000		8970	104000	63600	4700			21200	52200
Total Semivolatiles	NA	500000		15350	187100	145600	7390			45400	93600

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 1
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 7, 7A, 7B, 7C, 7D, 7E Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		Basement Below Welding Area Body Plant PAOC 7								
Sample ID			7B-01	7B-01A	7C-01	7C-02	7C-02A	7C-03	7C-03A	7D-01	7E-01
SAMPLE TYPE			Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)			1.0	1.0	1.2	1.2	1.7	1.2	1.2	0.3	2.5
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)									
Acenaphthene	400	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	7300	6200	650	15000	6600	ND	520	ND	ND
Benzo(a)Pyrene	0.04	61 or MDL	7500	7700	750	18000	8300	ND	900	ND	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	8600	6900	860	22000	9800	ND	1100	ND	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	4200	ND	8900	4400	ND	790	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	8400	6800	870	20000	8500	ND	940	ND	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	4100	ND	9100	ND	ND	640	ND	ND
Chrysene	0.04	400	8400	6800	720	18000	7800	ND	600	ND	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	15000	12000	1300	26000	13000	ND	800	ND	ND
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	11000	7000	530	6900	ND	ND	ND	ND	ND
Pyrene	1000	50000	14000	9500	1200	27000	11000	ND	1100	ND	ND
Total C-PAHs	NA	10000	40200	38500	3850	102100	41000		4700		
Total Semivolatiles	NA	500000	80200	71200	6880	170900	69400		7390		

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 2
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 7, 7A, 7B, 7C, 7D, 7E, Semivolatiles by TCLP Extraction

ICM Confirmatory Sampling Area Description		Basement Below Welding Area Body Plant PAOC 7				
Sample ID		7A-02A	7A-03A	7A-06A	7B-01A	7C-02A
SAMPLE TYPE		Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)		1.7	3.3	1.8	1.6	2.6
SATURATION (SAT/UNSAT)		unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles by TCLP Extraction (ug/l)	NYSDEC Guideline(1)					
Acenaphthene	20	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.002	ND	ND	ND	ND	ND
Benzo(a)Pyrene	0.002	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.002	ND	ND	ND	ND	ND
Benzo(g,h,i)Perylene	0.002	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	0.002	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.002	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	50	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND

ND - Not Detected

J - Estimated

(1)TCLP extraction guidance value, NYSDEC STARS Memo No. 1, 1992

Table 3
FormerTarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 8 Metals

ICM Confirmatory Sampling Area Description	ELPO Area Wastewater Leak Body Plant PAOC 8		
Sample ID		8-01	8-02
SAMPLE TYPE	**UNRESTRICTED**	Composite	Composite
SAMPLE DEPTH (FT.)	**USE**	0.3	0.3
SATURATION (SAT/UNSAT)	**TAGM 4046**	unsat	unsat
Metals (mg/kg)	**Guidance(1) (mg/kg)**		
Lead	**500**	ND	ND

(1) NYSDEC TAGM 4046 Guidance, 1994

ND - Not Detected

J - Estimated

Table 4
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 11A Semivolatiles

ICM Confirmatory Sampling Area Description	Basement Conveyor System Body Plant PAOC 11							
Sample ID	**NYSDEC Guidelines**		11A-01	11A-02	11A-03	11A-04	11A-05	11A-06
SAMPLE TYPE			Composite	Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)			1.3	1.0	3.0	2.0	2.0	2.7
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)						
Acenaphthene	400	50000	ND	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	0.04	61 or MDL	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	ND	ND	ND	ND	ND
Chrysene	0.04	400	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	ND	ND	ND	ND	ND	ND
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	ND	ND	ND	ND	ND	ND
Pyrene	1000	50000	ND	ND	ND	ND	ND	ND

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 5
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 12AC, 12D, 12E Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		North Basement Chassis Plant PAOC 12				
Sample ID			12AC-37	12AC-38	12AC-39	12AC-40	12AC-41
SAMPLE TYPE			Sidewall	Sidewall	Sidewall	Bottom	Sidewall
SAMPLE DEPTH (FT.)			6.0	6.5	5.0	8.0	4.5
SATURATION (SAT/UNSAT)			sat	sat	sat	sat	sat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)					
Acenaphthene	400	50000	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	ND	ND	ND	ND	ND
Benzo(a)Pyrene	0.04	61 or MDL	ND	410	ND	ND	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	ND	ND	ND	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	ND	ND	ND	ND
Chrysene	0.04	400	ND	440	ND	ND	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	ND	1200	ND	ND	ND
Fluorene	1000	50000	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	ND	900	ND	ND	ND
Pyrene	1000	50000	ND	600	ND	ND	ND
Total C-PAHs	NA	10000		850			
Total Semivolatiles	NA	500000		3550			

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 5
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 12AC, 12D, 12E Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		North Basement Chassis Plant PAOC 12				
Sample ID			12AC-42	12AC-43	12AC-44	12D-01	12E-01
SAMPLE TYPE			Sidewall	Bottom	Sidewall	Composite	Composite
SAMPLE DEPTH (FT.)			6.5	8.5	6.0	3.5	1.5
SATURATION (SAT/UNSAT)			sat	sat	sat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)					
Acenaphthene	400	50000	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	ND	680	420	ND
Benzo(a)Anthracene	0.04	224 or MDL	ND	ND	1700	1100	ND
Benzo(a)Pyrene	0.04	61 or MDL	ND	ND	2000	930	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	ND	1800	960	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	ND	910	390	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	ND	1500	1300	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	ND	1000	430	ND
Chrysene	0.04	400	ND	ND	1800	1100	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	ND	600	ND	ND
Fluoranthene	1000	50000	9500	ND	3600	2200	5100
Fluorene	1000	50000	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	4700	610	2500	2000	ND
Pyrene	1000	50000	5100	ND	2200	1800	3600
Total C-PAHs	NA	10000			10400	5820	
Total Semivolatiles	NA	500000	19300	610	20290	12630	8700

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STAR

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 6
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 12 Semivolatiles by TCLP Extraction

ICM Confirmatory Sampling Area Description	North Basement Chassis Plant PAOC 12	
Sample ID		12AC-44
SAMPLE TYPE		Sidewall
SAMPLE DEPTH (FT.)		6.0
SATURATION (SAT/UNSAT)		sat
STARS List Semivolatiles by TCLP Extraction (ug/l)	NYSDEC Guideline(1)	
Acenaphthene	20	ND
Anthracene	50	ND
Benzo(a)Anthracene	0.002	ND
Benzo(a)Pyrene	0.002	ND
Benzo(b)Fluoranthene	0.002	ND
Benzo(g,h,i)Perylene	0.002	ND
Benzo(k)Fluoranthene	0.002	ND
Indeno(1,2,3-cd)Pyrene	0.002	ND
Chrysene	0.002	ND
Dibenzo(a,h)Anthracene	50	ND
Fluoranthene	50	ND
Fluorene	50	ND
Naphthalene	10	ND
Phenanthrene	50	ND
Pyrene	50	ND

ND - Not Detected

J - Estimated

(1)TCLP extraction guidance value, NYSDEC STARS Memo No. 1, 1992

Table 7
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 12 Metals

ICM Confirmatory Sampling Area Description		North Basement Chassis Plant PAOC 12									
Sample ID		12-01	12-02	12-03	12-04	12-05	12-06	12-07	12-08	12-09	12-10
SAMPLE TYPE	**UNRESTRICTED**	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
SAMPLE DEPTH (IN.)	**USE**	3.0	5.0	5.0	2.0	4.0	4.0	4.0	3.0	2.0	4.0
SATURATION (SAT/UNSAT)	**TAGM 4046**	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat
Metals	**Guidance(1)**										
(mg/kg)	**(mg/kg)**										
Lead	500	37.4	20.7	8.5	54.5	22.6	20	14.4	16.4	32.6	11
Sample ID		12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
SAMPLE TYPE	**UNRESTRICTED**	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
SAMPLE DEPTH (IN.)	**USE**	5.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0
SATURATION (SAT/UNSAT)	**TAGM 4046**	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat
Metals	**Guidance(1)**										
(mg/kg)	**(mg/kg)**										
Lead	500	37.5	34.9	49	136	92.4	129	1400	92.2	425	959

ND - Not Detected

J - Estimated

(1) NYSDEC TAGM 4046 Guidance, 1994

Constituent levels greater than TAGM 4046 value, not necessarily greater than site background

Table 7
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 12 Metals

ICM Confirmatory Sampling Area Description		North Basement Chassis Plant PAOC 12									
Sample ID		12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20
SAMPLE TYPE	**UNRESTRICTED**	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
SAMPLE DEPTH (IN.)	**USE**	4.0	3.0	5.0	3.0	4.0	4.0	3.0	4.0	3.0	3.0
SATURATION (SAT/UNSAT)	**TAGM 4046**	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat
Metals	**Guidance(1)**										
(mg/kg)	**(mg/kg)**										
Lead	500	14.9	245	46.3	65.1	60.8	83.6	89.8	72.5	67.7	12.8
Sample ID		12-31	12-32	12-33	12-34	12-35	12-36				
SAMPLE TYPE	**UNRESTRICTED**	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom				
SAMPLE DEPTH (IN.)	**USE**	5.0	4.0	4.0	4.0	5.0	4.0				
SATURATION (SAT/UNSAT)	**TAGM 4046**	unsat	unsat	unsat	unsat	unsat	unsat				
Metals	**Guidance(1)**										
(mg/kg)	**(mg/kg)**										
Lead	500	380	190	117	12	87.6	26.3				

ND - Not Detected

J - Estimated

(1) NYSDEC TAGM 4046 Guidance, 1994

Constituent levels greater than TAGM 4046 value, not necessarily greater than site background

Table 8
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 13, 13A, 13B Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		M12 Hydraulic Elevator Chassis Plant PAOC 13											
Sample ID			13A-01	13A-02	13A-03	13A-04	13A-05	13A-06	13A-07	13A-08	13A-09	13A-10	13A-11	13A-12
SAMPLE TYPE			Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)			0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	0.9
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)												
Acenaphthene	400	50000	ND	ND	ND	ND	ND	ND	370	ND	ND	ND	ND	ND
Anthracene	1000	50000	450	470	ND	ND	ND	ND	1000	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	860	1800	1100	900	680	1100	2400	950	930	460	910	510
Benzo(a)Pyrene	0.04	61 or MDL	850	2100	1200	1000	700	1200	2200	1000	980	550	900	530
Benzo(b)Fluoranthene	0.04	61 or MDL	760	2400	1300	1100	710	1200	2100	1100	1100	590	800	530
Benzo(g,h,i)Perylene	0.04	50000	440	840	510	ND	ND	390	970	440	390	ND	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	790	1500	1100	990	590	1200	2100	810	860	530	1000	650
Indeno(1,2,3-cd)Pyrene	0.04	3200	460	960	560	410	380	460	1000	470	460	ND	360	ND
Chrysene	0.04	400	850	1800	1100	920	730	1100	2300	970	950	470	920	550
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	2000	2900	2000	1700	1500	2000	4600	1700	1500	690	1500	940
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND	460	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	380	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	1900	1500	1100	880	830	1100	3600	960	580	ND	670	390
Pyrene	1000	50000	1500	2300	1800	1400	1100	1900	3700	1500	1300	590	1400	760
Total C-PAHs	NA	10000	4570	10560	6360	5320	3790	6260	12100	5300	5280	2600	4890	2770
Total Semivolatiles	NA	500000	10860	18980	12150	9300	7220	11650	26800	9900	9050	3880	8460	4860

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 8
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 13, 13A, 13B Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		M12 Hydraulic Elevator Chassis Plant PAOC 13											
Sample ID			13A-13	13B-01	13-03	13-04	13-05	13-06	13-07	13-08	13-09	13-10	13-11	13-12
SAMPLE TYPE			Composite	Composite	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Side
SAMPLE DEPTH (FT.)			1.3	1.8	4.3	4.8	4.5	5.0	9.5	4 - 5	4 - 5	10.0	5.0	4.5 - 5.5
SATURATION (SAT/UNSAT)			unsat	unsat	sat	sat	sat	sat	sat	unsat	unsat	sat	sat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)												
Acenaphthene	400	50000	ND	ND	ND	ND	ND	ND	1700 J	ND	ND	ND	ND	ND
Anthracene	1000	50000	630	ND	ND	ND	ND	ND	970 J	ND	ND	ND	ND	840 J
Benzo(a)Anthracene	0.04	224 or MDL	2700	ND	1400	830	5700	ND	2000 J	ND	2400 J	1100 J	2000 J	2000 J
Benzo(a)Pyrene	0.04	61 or MDL	2600	ND	1500	910	5100	ND	1500 J	ND	2500 J	940 J	ND	1900 J
Benzo(b)Fluoranthene	0.04	61 or MDL	2900	ND	1400	910	4900	ND	1400 J	ND	1900 J	ND	ND	1500 J
Benzo(g,h,i)Perylene	0.04	50000	830	ND	690	460	ND	ND	1200 J	ND	ND	ND	ND	1200 J
Benzo(k)Fluoranthene	0.04	610 or MDL	2300	ND	1500	910	4500	ND	1400 J	ND	2100 J	ND	ND	1700 J
Indeno(1,2,3-cd)Pyrene	0.04	3200	940	ND	690	400	ND	ND	1300 J	ND	1700 J	ND	ND	1200 J
Chrysene	0.04	400	2700	ND	1500	980	5300	ND	2100 J	ND	2400 J	1200 J	2300 J	2400 J
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	4400	ND	3200	1500	15000	8700	4300 J	ND	3400 J	2400 J	3400 J	4300
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	1700	ND	810	670	15000	12000	2100 J	ND	1400 J	1900 J	2800 J	2700 J
Pyrene	1000	50000	4300	ND	2400	1700	15000	8300	4100 J	1500J	6000	2900 J	6500 J	4300
Total C-PAHs	NA	10000	14140	0	7990	4940	25500	0	9700 J	0	13000 J	3240 J	4300 J	10700 J
Total Semivolatiles	NA	500000	26420		15090	9270	70500	29000	24070 J	1500J	23800 J	10440 J	17000 J	24040 J

ND - Not Detected
J - Estimated
(1)Alternative guidance value for soils without TCLP extraction,
NYSDEC STARS Memo No. 1, 1992
(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 8
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 13, 13A, 13B Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		M12 Hydraulic Elevator Chassis Plant PAOC 13										
Sample ID			13-13	13-14	13-15	13-16	13-17	13-18	13-19	13-20	13-21	13-22	A6-01
SAMPLE TYPE			Side	Side	Side	Side	Side	Side	Side	Side	Side	Side	Core
SAMPLE DEPTH (FT.)			4.5 - 5.5	4.5 - 5.5	4 - 5.5	4.5	2.5	3 - 3.5	4 - 5	2.5 - 3.5	3.5 - 4.5	3 - 4	4 - 5.5
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	unsat	sat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)											
Acenaphthene	400	50000	ND	2700 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	3900 J	1100 J	ND	ND	1500J	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	900 J	14000	3300 J	730	ND	3300 J	ND	ND	ND	1500	ND
Benzo(a)Pyrene	0.04	61 or MDL	ND	12000	3200 J	990	ND	2700 J	ND	ND	ND	1800	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	9800	2600 J	1600	ND	2100 J	ND	ND	ND	2200	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	6700	2000 J	760	ND	ND	ND	ND	ND	910	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	11000	3300 J	1100	ND	2100 J	ND	ND	ND	1800	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	7300	2000 J	730	ND	1000 J	ND	ND	ND	1000	ND
Chrysene	0.04	400	1100 J	15000	4100	860	ND	3500 J	ND	ND	ND	1700	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	2700	ND	ND	ND	ND	ND	ND	ND	370	ND
Fluoranthene	1000	50000	1600 J	20000	6700	870	ND	4300	ND	ND	ND	2400	ND
Fluorene	1000	50000	ND	2000 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	ND
Phenanthrene	1000	50000	900 J	5100	3100 J	430	ND	1400 J	ND	ND	ND	1100	ND
Pyrene	1000	50000	2100 J	40000	6700	810	ND	12000	ND	ND	ND	2100	
Total C-PAHs	NA	10000	2000 J	69100	18500 J	6010		14700 J				10000	
Total Semivolatiles	NA	500000	6600 J	152200 J	38100	8880		32400				17140	

ND - Not Detected
J - Estimated
(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992
(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 9
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 13, 13A, 13B Semivolatiles by TCLP Extraction

ICM Confirmatory Sampling Area Description		M12 Hydraulic Elevator Chassis Plant PAOC 13												
Sample ID		13A-14	13A-15	13A-16	13A-17	13A-18	13-05	13-06	13-09	13-10	13-12	13-14	13-15	13
SAMPLE TYPE		Composite	Composite	Composite	Composite	Composite	Bottom	Bottom	Side	Bottom	Side	Side	Side	S
SAMPLE DEPTH (FT.)		0.9	0.9	0.9	1.1	1.2	4.5	5	4.5	10	4.5 - 5.5	4.5 - 5.5	4 - 5.5	3
SATURATION (SAT/UNSAT)		unsat	unsat	unsat	unsat	unsat	sat	sat	unsat	sat	unsat	unsat	unsat	u
STARS List Semivolatiles by TCLP Extraction (ug/l)	NYSDEC Guideline(1)													
Acenaphthene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Benzo(a)Anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Benzo(a)Pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Benzo(b)Fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Benzo(g,h,i)Perylene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Benzo(k)Fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Indeno(1,2,3-cd)Pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Chrysene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Dibenzo(a,h)Anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Fluoranthene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Fluorene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Naphthalene	10	ND	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	N
Phenanthrene	50	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND	ND	ND	N
Pyrene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N

ND - Not Detected
J - Estimated

13A-14 covers 13-01, 13-02
13A-15 covers 13-03, 13-04
13A-16 covers 13-06, 13-07
13A-17 covers 13-08, 13-09
13A-18 covers 13-11, 13-13
(1)TCLP extraction guidance value, NYSDEC STARS Memo No. 1, 1992

Table 10
Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 17, 17A, 17B Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		Basement Conveyor System Chassis Plant PAOC 17						
Sample ID			17-01	17-02	17-02A	17-03	17-04	17-05	17-06
SAMPLE TYPE			Composite	Composite	Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)			2.4	1.1	2.5	1.5	1.8	1.5	1.5
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)							
Acenaphthene	400	50000	ND	ND	ND	ND	ND	ND	520
Anthracene	1000	50000	ND	900	ND	ND	ND	ND	1500
Benzo(a)Anthracene	0.04	224 or MDL	ND	2400	ND	1300	ND	ND	3200
Benzo(a)Pyrene	0.04	61 or MDL	ND	2600	ND	1200	ND	ND	3100
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	2400	ND	1200	ND	ND	3100
Benzo(g,h,i)Perylene	0.04	50000	ND	1300	ND	730	ND	ND	1200
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	2200	ND	1400	ND	ND	2700
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	1300	ND	680	ND	ND	1300
Chrysene	0.04	400	ND	2600	ND	1300	ND	ND	3000
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	520	ND	ND	ND	ND	540
Fluoranthene	1000	50000	ND	4700	ND	2200	ND	ND	6400
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND	610
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND	240
Phenanthrene	1000	50000	ND	4300	ND	1100	ND	ND	5000
Pyrene	1000	50000	ND	5000	ND	2000	ND	ND	5700
Total C-PAHs	NA	10000		14020		7080			16940
Total Semivolatiles	NA	500000		30220		13110			38110

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction,
NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 10
Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 17, 17A, 17B Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		Basement Conveyor System Chassis Plant PAOC 17						
Sample ID			17-06A	17-07	17-08	17-09	17A-01	17A-02	17B-01
SAMPLE TYPE			Composite	Composite	Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)			2.0	1.8	1.0	1.2	3.3	2.8	1.0
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)							
Acenaphthene	400	50000	630	ND	ND	ND	ND	ND	ND
Anthracene	1000	50000	1800	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	3600	370	ND	ND	ND	ND	ND
Benzo(a)Pyrene	0.04	61 or MDL	4500	390	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	4500	390	ND	ND	ND	ND	ND
Benzo(g,h,i)Perylene	0.04	50000	1700	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	3400	390	380	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	1700	ND	ND	ND	ND	ND	ND
Chrysene	0.04	400	3600	380	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	730	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	7000	690	660	ND	ND	ND	ND
Fluorene	1000	50000	630	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	300	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	6100	ND	550	ND	ND	ND	ND
Pyrene	1000	50000	6900	650	590	ND	ND	ND	ND
Total C-PAHs	NA	10000	22030	1920					
Total Semivolatiles	NA	500000	47090	3260	2180				

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction,
NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 10
Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 17, 17A, 17B Semivolatiles

ICM Confirmatory Sampling Area Description	NYSDEC Guidelines		Basement Conveyor System Chassis Plant PAOC 17					
Sample ID			17B-02	17B-04	17B-05	17B-06	17B-07	17B-08
SAMPLE TYPE			Composite	Sidewall	Sidewall	Sidewall	Bottom	Bottom
SAMPLE DEPTH (FT.)			1.8	4.5-6.5	4.5-6.5	4.5-6.5	8.0	8.0
SATURATION (SAT/UNSAT)			unsat	sat	sat	sat	sat	sat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)						
Acenaphthene	400	50000	ND	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	0.04	61 or MDL	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	ND	ND	ND	ND	ND
Chrysene	0.04	400	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	ND	ND	ND	ND	ND	ND
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	ND	ND	ND	ND	ND	ND
Pyrene	1000	50000	ND	ND	ND	ND	ND	ND
Total C-PAHs	NA	10000						
Total Semivolatiles	NA	500000						

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction,
NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 11
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 17A, 17B, Semivolatiles by TCLP Extraction

ICM Confirmatory Sampling Area Description		Basement Conveyor System Chassis Plant PAOC 17	
Sample ID		17-03A	17-06B
SAMPLE TYPE		Composite	Composite
SAMPLE DEPTH (FT.)		2.5	2.0
SATURATION (SAT/UNSAT)		unsat	unsat
STARS List Semivolatiles by TCLP Extraction (ug/l)	NYSDEC Guideline(1)		
Acenaphthene	20	ND	ND
Anthracene	50	ND	ND
Benzo(a)Anthracene	0.002	ND	ND
Benzo(a)Pyrene	0.002	ND	ND
Benzo(b)Fluoranthene	0.002	ND	ND
Benzo(g,h,i)Perylene	0.002	ND	ND
Benzo(k)Fluoranthene	0.002	ND	ND
Indeno(1,2,3-cd)Pyrene	0.002	ND	ND
Chrysene	0.002	ND	ND
Dibenzo(a,h)Anthracene	50	ND	ND
Fluoranthene	50	ND	ND
Fluorene	50	ND	ND
Naphthalene	10	ND	ND
Phenanthrene	50	ND	ND
Pyrene	50	ND	ND

ND - Not Detected

J - Estimated

(1)TCLP extraction guidance value, NYSDEC STARS Memo No. 1, 1992

Table 12
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 19 Semivolatiles

ICM Confirmatory Sampling Area Description	Column M23 Hydraulic Leak Chassis Plant PAOC 19			
Sample ID			19-01	19-02
SAMPLE TYPE	**NYSDEC**		Composite	Composite
SAMPLE DEPTH (FT.)	**Guidelines**		1.3	1.3
SATURATION (SAT/UNSAT)			unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)		
Acenaphthene	400	50000	ND	ND
Anthracene	1000	50000	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	ND	ND
Benzo(a)Pyrene	0.04	61 or MDL	ND	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	ND	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	ND	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	ND
Chrysene	0.04	400	ND	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	ND
Fluoranthene	1000	50000	ND	ND
Fluorene	1000	50000	ND	ND
Naphthalene	200	13000	ND	ND
Phenanthrene	1000	50000	ND	ND
Pyrene	1000	50000	ND	ND

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 13
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 19 PCBs

ICM Confirmatory Sampling Area Description	**Column M23 Hydraulic Leak Chassis Plant PAOC 19**		
Sample ID		19-03	19-04
SAMPLE TYPE		Composite	Composite
SAMPLE DEPTH (FT.)		1.3	1.3
SATURATION (SAT/UNSAT)		unsat	unsat
PCB's (mg/kg)	NYSDEC Guideline (1)		
PCB 1016	1.0	ND	ND
PCB 1221	1.0	ND	ND
PCB 1232	1.0	ND	ND
PCB 1242	1.0	ND	ND
PCB 1248	1.0	ND	ND
PCB 1254	1.0	ND	ND
PCB 1260	1.0	ND	ND

ND - Not Detected

J - Estimated

(1) NYSDEC TAGM 4046 Guideline for Surface Soils, Unrestricted Use

Table 14
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 20 Semivolatiles

ICM Confirmatory Sampling Area Description	Column T20 Hydraulic Leak Chassis Plant PAOC 20							
Sample ID			20-01	20-02	20-03	20-04	20-05	20-06
SAMPLE TYPE	**NYSDEC**		Composite	Composite	Composite	Composite	Composite	Composite
SAMPLE DEPTH (FT.)	**Guidelines**		0.5	0.5	0.8	2	1.5	1
SATURATION (SAT/UNSAT)			unsat	unsat	unsat	unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)						
Acenaphthene	400	50000	ND	ND	ND	ND	ND	ND
Anthracene	1000	50000	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	0.04	224 or MDL	760	580	ND	780	970 J	1700 J
Benzo(a)Pyrene	0.04	61 or MDL	830	790	ND	780	960 J	1600 J
Benzo(b)Fluoranthene	0.04	61 or MDL	1100	940	ND	790	1200 J	1800 J
Benzo(g,h,i)Perylene	0.04	50000	400	420	ND	440	ND	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	850	900	ND	750	800 J	1600 J
Indeno(1,2,3-cd)Pyrene	0.04	3200	440	450	ND	430	ND	ND
Chrysene	0.04	400	820	690	ND	740	1000 J	1600 J
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	50000	1200	1200	5500	1300	1600 J	3300 J
Fluorene	1000	50000	ND	ND	ND	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	50000	510	670	ND	1100	830 J	2200 J
Pyrene	1000	50000	1300	1500	4600	1800	1700 J	3400 J
Total C-PAHs	NA	10000	4800	4350		4270	4930 J	8300 J
Total Semivolatiles	NA	500000	8210	8140	10100	8910	9060 J	17200 J

ND - Not Detected

J - Estimated

(1)Alternative guidance value for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 15
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area 20 Semivolatiles by TCLP Extraction

ICM Confirmatory Sampling Area Description	Column T20 Hydraulic Leak Chassis Plant PAOC 20	
Sample ID		20-06A
SAMPLE TYPE		Composite
SAMPLE DEPTH (FT.)		0.5
SATURATION (SAT/UNSAT)		unsat
STARS List Semivolatiles By TCLP Extraction (ug/l)	NYSDEC Guideline(1)	
Acenaphthene	20	ND
Anthracene	50	ND
Benzo(a)Anthracene	0.002	ND
Benzo(a)Pyrene	0.002	ND
Benzo(b)Fluoranthene	0.002	ND
Benzo(g,h,i)Perylene	0.002	ND
Benzo(k)Fluoranthene	0.002	ND
Indeno(1,2,3-cd)Pyrene	0.002	ND
Chrysene	0.002	ND
Dibenzo(a,h)Anthracene	50	ND
Fluoranthene	50	ND
Fluorene	50	ND
Naphthalene	10	ND
Phenanthrene	50	ND
Pyrene	50	ND

ND - Not Detected

J - Estimated

(1)TCLP extraction guidance value, NYSDEC STARS Memo No. 1, 1992

Table 16
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Area PQ20 Semivolatiles

ICM Confirmatory Sampling Area Description	Column PQ20 Machine Pit Chassis Plant				
Sample ID			PQ20-01	PQ20-02	PQ20-03
SAMPLE TYPE	**NYSDEC**		Composite	Composite	Composite
SAMPLE DEPTH (FT.)	**Guidelines**		1	1	0.8
SATURATION (SAT/UNSAT)			unsat	unsat	unsat
STARS List Semivolatiles (ug/kg)	NYSDEC 1992 Guidance(1)	Revised 2001 Guidance(2)			
Acenaphthene	400	50000	ND	ND	ND
Anthracene	1000	50000	ND	1400	ND
Benzo(a)Anthracene	0.04	224 or MDL	ND	2500	ND
Benzo(a)Pyrene	0.04	61 or MDL	440	1900	ND
Benzo(b)Fluoranthene	0.04	61 or MDL	480	2600	ND
Benzo(g,h,i)Perylene	0.04	50000	ND	910	ND
Benzo(k)Fluoranthene	0.04	610 or MDL	430	1600	ND
Indeno(1,2,3-cd)Pyrene	0.04	3200	ND	1000	ND
Chrysene	0.04	400	400	2400	ND
Dibenzo(a,h)Anthracene	1000	14.3 or MDL	ND	480	ND
Fluoranthene	1000	50000	760	6000	ND
Fluorene	1000	50000	ND	ND	ND
Naphthalene	200	13000	ND	ND	ND
Phenanthrene	1000	50000	360	5600	ND
Pyrene	1000	50000	550	3800	ND
Total C-PAHs	NA	10000	1750	12480	
Total Semivolatiles	NA	500000	3420	30190	

ND - Not Detected

J - Estimated

(1)Alternative guidance for soils without TCLP extraction, NYSDEC STARS Memo No. 1, 1992

(2) Revised guidance, April 10, 2001 memo from M. O'Toole

Value greater than revised 2001 guidance

Table 17
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
PQ20 Semivolatiles by TCLP Extraction

IRM Confirmatory Sampling Area Description	Column PQ20 Machine Pit Chassis Plant	
Sample ID		PQ20-02A
SAMPLE TYPE		Composite
SAMPLE DEPTH (FT.)		2.0
SATURATION (SAT/UNSAT)		unsat
STARS List Semivolatiles by TCLP Extraction (ug/l)	NYSDEC Guideline(1)	
Acenaphthene	20	ND
Anthracene	50	ND
Benzo(a)Anthracene	0.002	ND
Benzo(a)Pyrene	0.002	ND
Benzo(b)Fluoranthene	0.002	ND
Benzo(g,h,i)Perylene	0.002	ND
Benzo(k)Fluoranthene	0.002	ND
Indeno(1,2,3-cd)Pyrene	0.002	ND
Chrysene	0.002	ND
Dibenzo(a,h)Anthracene	50	ND
Fluoranthene	50	ND
Fluorene	50	ND
Naphthalene	10	ND
Phenanthrene	50	ND
Pyrene	50	ND

ND - Not Detected

J - Estimated

(1)TCLP extraction guidance value, NYSDEC STARS Memo No. 1, 1992

Table 18
Former Tarrytown Assembly Plant
ICM Confirmatory Sample Results and TAGM Values
Storm Drain Catch Basins Volatiles and Semivolatiles

ICM Confirmatory Sampling Area Description	**Catch Basin One** (Infiltration)	**Catch Basin Two** (Infiltration)
Sample ID	GM-CB-01	GM-CB-02
STARS List Volatiles (ug/l)		
Benzene	ND	ND
Sec-Butylbenzene	ND	ND
Tert-Butylbenzene	ND	ND
N-Butylbenzene	ND	ND
Methyl-Tert-Butyl Ether (MTBE)	7*	ND
Ethylbenzene	ND	ND
Isopropylbenzene	ND	ND
P-Isopropyltoluene	ND	ND
Naphthalene	ND	ND
N-Propylbenzene	ND	ND
Toluene	ND	ND
1, 2, 4-Trimethylbenzene	ND	ND
1, 3, 5-Trimethylbenzene	ND	ND
o-Xylene	ND	ND
m+p-Xylene	ND	ND
STARS List Semivolatiles (ug/l)		
Acenaphthene	ND	ND
Anthracene	ND	ND
Benzo(a)Anthracene	ND	ND
Benzo(a)Pyrene	ND	ND
Benzo(b)Fluoranthene	ND	ND
Benzo(g, h, i)Perylene	ND	ND
Benzo(k)Fluoranthene	ND	ND
Indeno(1, 2, 3-cd)Pyrene	ND	ND
Chrysene	ND	ND
Dibenzo(a, h)Anthracene	ND	ND
Fluoranthene	ND	ND
Fluorene	ND	ND
Naphthalene	ND	ND
Phenanthrene	ND	ND
Pyrene	ND	ND
Diesel Range Organics	ND	ND

*** TAGM 4046 Guidance Value for Groundwater is 10 ug/l**
ND - Not Detected

Appendix A-4

Supplemental Phase II Investigation – 2000 (EMCON 2003)

Table 1
Supplimental Phase II Subsurface Investigation Analytical Results
Former General Motors
Tarrytown Assembly Plant

VOCs and SVOCs in TCLP Extracts from Soil Sample

Sample Description		Test Borings									Test Pit
Sample Location Sample Depth (ft.)	NYSDEC Buidance Value (1)	TB-01 6-8'	TB-02 8-10'	TB-03 8-10'	TB-04 8-10'	TB-05 10-12'	TB-06 8-10'	TB-07 7-9'	TB-08 10-12'	TB-09 12-14'	TP-08 10-12'
Volatile Organic Compounds (VOCs) ug/l											
BENZENE	0.7	150	23	13	6.4	3	0.7 U	0.7 U	28	0.7 U	0.7 U
SEC-BUTYLBENZENE	5	2.8	5.6	6	3.1	2.5	1.6	1 U	28	1 U	7.2
TERT-BUTYLBENZENE	5	1 U	1 U	1 U	1.8	1 U	1 U	1 U	2.5 U	1 U	1 U
N-BUTYLBENZENE	5	14	10	7.4	6.4	1.3	1.7	1 U	50	1 U	28
METHYL-TERT-BUTYLETHER	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U
ETHYLBENZENE	5	11	6.8	7.5	1 U	1 U	1.4	1 U	52	1 U	1 U
ISOPROYLBENZENE	5	18	29	27	4	5.1	1 U	1 U	140	1 U	1 U
P-ISOPROPYLTOLUENE	5	2.1	1 U	1 U	1 U	1 U	1 U	1 U	23	1 U	1 U
NAPTHALENE	10	3.6	2.4	4.2	5	1 U	1.9	1 U	37	1 U	140
N-PROPYLBENZENE	5	18	19	17	4.4	2	1 U	1 U	100	1 U	1 U
TOLUENE	5	34	8.7 U	8.6	5.5	2.3	1 U	1 U	55	1 U	1 U
1,2,4-TRIMETHYLEBENZENE	5	7.2	3.8	3.6	2.7	1 U	1 U	1 U	14	1 U	7.1
1,3,5-TRIMETHYLEBENZENE	5	7.8	1.2	1 U	1.6	1 U	1 U	1 U	5.5	1 U	14
O-XYLENE	5	12	3.5	2.2	2 U	2 U	2 U	2 U	16	2 U	2 U
M+P-XYLENE	5	45	23	13	3.3	2.8	2 U	2 U	57	2 U	2 U
Semi-Volatile Organic Compounds (SVOCs) ug/l											
ACENAPHTHENE	20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16
ANTHRACENE	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CHRYSENE	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
DIBENZO(A,H)ANTHRACENE	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
FLUORENE	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	17
NAPHTHALENE	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	18	10 U	69
PHENANTHRENE	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24
PYRENE	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Notes:
(1) TCLP Extraction Guidance Value, NYSDEC STARS Memo No. 1, 199
Concentrations above guidance values are shade
Undetected compounds are shown as a practical quantitation limit followed by "
Concentrations above guidance values are highlighte

Appendix A-5

Due Diligence Investigation – 2002 (EcolSciences 2002)

Table 1
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-5,14,21,22,23,24

Sample ID	New York TAGM	AOC-5-1-8	AOC-14-1A-1	AOC-14-2-2.5	AOC-14-3-3	AOC-21-1-8	AOC-21-2-5	AOC-22-1-6	AOC-22-1-8	AOC-23-1-7	AOC-24-1-4
Lab Sample Number	Rec. Soil	368851	369406	369407	369408	368439	369405	367960	367961	368854	367959
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/14/02	08/14/02	08/09/02	08/13/02	08/08/02	08/08/02	08/13/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)											
Chloromethane	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Bromomethane	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
VinylChloride	0.2	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Chloroethane	1.9	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
MethyleneChloride	0.1	0.0007 J	0.0008 J	0.0007 J	0.0008 J	0.0014 J	0.0017 J	0.0025 J	0.0036 U	0.0010 J	0.0032 J
Acetone	0.2	0.074	0.033	0.014	0.009	0.094	0.040	0.052	0.032	0.0062 U	0.045
CarbonDisulfide	2.7	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.022	0.0026 J	0.0013 J	0.0028 J
1,1-Dichloroethene	0.4	0.0024 U	0.0024 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0023 U	0.0024 U	0.0025 U	0.0022 U
1,1-Dichloroethane	0.2	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
trans-1,2-Dichloroethene	0.3	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
cis-1,2-Dichloroethene	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0009 J	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Chloroform	0.3	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0009 J
1,2-Dichloroethane	0.1	0.0024 U	0.0024 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0023 U	0.0024 U	0.0025 U	0.0022 U
2-Butanone	0.3	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0074	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
1,1,1-Trichloroethane	0.8	0.013	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
CarbonTetrachloride	0.6	0.0024 U	0.0024 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0023 U	0.0024 U	0.0025 U	0.0022 U
Bromodichloromethane	NA	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U
1,2-Dichloropropane	NA	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U
cis-1,3-Dichloropropene	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Trichloroethene	0.7	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0007 J
Dibromochloromethane	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0049 J	0.006 U	0.0062 U	0.0032 J
1,1,2-Trichloroethane	NA	0.0036 U	0.0035 U	0.0034 U	0.0033 U	0.0037 U	0.0034 U	0.0035 U	0.0036 U	0.0037 U	0.0033 U
Benzene	0.06	0.0010 J	0.0012 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0021	0.0012 U	0.0012 U	0.0005 J
trans-1,3-Dichloropropene	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Bromoform	NA	0.0008 J	0.0047 U	0.0045 U	0.0044 U	0.0081	0.0045 U	0.06	0.0068	0.0050 U	0.04
4-Methyl-2-Pentanone	1	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
2-Hexanone	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Tetrachloroethene	1.4	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0095	0.0012 U	0.0012 U	0.0011 U
1,1,2,2-Tetrachloroethane	0.6	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U
Toluene	1.5	0.014	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0010 J	0.0054 U
Chlorobenzene	1.7	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Ethylbenzene	5.5	0.0048 U	0.0047 U	0.0045 U	0.0044 U	0.0049 U	0.0045 U	0.0047 U	0.0048 U	0.0050 U	0.0044 U
Styrene	NA	0.0061 U	0.0059 U	0.0056 U	0.0055 U	0.0061 U	0.0057 U	0.0059 U	0.006 U	0.0062 U	0.0054 U
Xylene(Total)	1.2	0.0061 U	0.0059 U	0.0018 J	0.0014 J	0.0061 U	0.0020 J	0.0052 J	0.006 U	0.0062 U	0.0054 U
Total Confident Conc. VOAs (s)		0.1	0.033	0.014	0.009	0.11	0.040	0.146	0.039	0	0.085
Total Estimated Conc. VOA TICs (s)		0.0	0.01	0	0	0	0.0062	0.889	0.0071	0	0.684

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 1
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-5,14,21,22,23,24

Sample ID	New York TAGM	AOC-5-1-8	AOC-14-1A-1	AOC-14-2-2.5	AOC-14-3-3	AOC-21-1-8	AOC-21-2-5	AOC-22-1-6	AOC-22-1-8	AOC-23-1-7	AOC-24-1-4
Lab Sample Number	Rec. Soil	368851	369406	369407	369408	368439	369405	367960	367961	368854	367959
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/14/02	08/14/02	08/09/02	08/13/02	08/08/02	08/08/02	08/13/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			2.0	1.0	5.0		5.0				1.0
SEMIVOLATILE COMPOUNDS (GC/MS)											
Phenol	**0.030 or MDL**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2-Chlorophenol	**0.8**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2-Methylphenol	**0.100 or MDL**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
4-Methylphenol	**0.9**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.023 J
2-Nitrophenol	**0.330 or MDL**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2,4-Dimethylphenol	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2,4-Dichlorophenol	**0.4**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
4-Chloro-3-methylphenol	**0.240 or MDL**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2,4,6-Trichlorophenol	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2,4,5-Trichlorophenol	**0.1**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2,4-Dinitrophenol	**0.200 or MDL**	NR	3.2 U	1.5 U	7.8 U	NR	7.6 U	NR	NR	NR	1.5 U
4-Nitrophenol	**0.100 or MDL**	NR	3.2 U	1.5 U	7.8 U	NR	7.6 U	NR	NR	NR	1.5 U
4,6-Dinitro-2-methylphenol	**NA**	NR	3.2 U	1.5 U	7.8 U	NR	7.6 U	NR	NR	NR	1.5 U
Pentachlorophenol	**1 or MDL**	NR	3.2 U	1.5 U	7.8 U	NR	7.6 U	NR	NR	NR	1.5 U
bis(2-Chloroethyl)ether	**NA**	NR	0.079 U	0.037 U	0.19 U	NR	0.19 U	NR	NR	NR	0.037 U
1,3-Dichlorobenzene	**1.6**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
1,4-Dichlorobenzene	**8.5**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
1,2-Dichlorobenzene	**7.9**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
bis(2-chloroisopropyl)ether	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
N-Nitroso-di-n-propylamine	**NA**	NR	0.079 U	0.037 U	0.19 U	NR	0.19 U	NR	NR	NR	0.037 U
Hexachloroethane	**NA**	NR	0.079 U	0.037 U	0.19 U	NR	0.19 U	NR	NR	NR	0.037 U
Nitrobenzene	**0.200 or MDL**	NR	0.079 U	0.037 U	0.19 U	NR	0.19 U	NR	NR	NR	0.037 U
Isophorone	**4.4**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
bis(2-Chloroethoxy)methane	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
1,2,4-Trichlorobenzene	**3.4**	NR	0.079 U	0.037 U	0.19 U	NR	0.19 U	NR	NR	NR	0.037 U
Naphthalene	**13**	NR	0.79 U	0.037 J	0.24 J	NR	0.96 J	NR	NR	NR	0.38
4-Chloroaniline	**0.220 or MDL**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
Hexachlorobutadiene	**NA**	NR	0.16 U	0.075 U	0.39 U	NR	0.38 U	NR	NR	NR	0.075 U
2-Methylnaphthalene	**36.400**	NR	0.79 U	0.044 J	0.92 J	NR	0.68 J	NR	NR	NR	0.61

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 1
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-5,14,21,22,23,24

Sample ID	New York TAGM	AOC-5-1-8	AOC-14-1A-1	AOC-14-2-2.5	AOC-14-3-3	AOC-21-1-8	AOC-21-2-5	AOC-22-1-6	AOC-22-1-8	AOC-23-1-7	AOC-24-1-4
Lab Sample Number	Rec. Soil	368851	369406	369407	369408	368439	369405	367960	367961	368854	367959
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/14/02	08/14/02	08/09/02	08/13/02	08/08/02	08/08/02	08/13/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			2.0	1.0	5.0		1.0				1.0
Hexachlorocyclopentadiene	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2-Chloronaphthalene	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
2-Nitroaniline	**0.430 or MDL**	NR	1.6 U	0.75 U	3.9 U	NR	3.8 U	NR	NR	NR	0.75 U
Dimethylphthalate	**2.0**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
Acenaphthylene	**50**	NR	0.79 U	0.021 J	0.079 J	NR	0.26 J	NR	NR	NR	0.019 J
2,6-Dinitrotoluene	**1.0**	NR	0.16 U	0.075 U	0.39 U	NR	0.38 U	NR	NR	NR	0.075 U
3-Nitroaniline	**.500 or MDL**	NR	1.6 U	0.75 U	3.9 U	NR	3.8 U	NR	NR	NR	0.75 U
Acenaphthene	**50**	NR	0.79 U	0.16 J	0.73 J	NR	0.82 J	NR	NR	NR	0.013 J
Dibenzofuran	**6.2**	NR	0.79 U	0.079 J	0.38 J	NR	0.76 J	NR	NR	NR	0.16 J
2,4-Dinitrotoluene	**NA**	NR	0.16 U	0.075 U	0.39 U	NR	0.38 U	NR	NR	NR	0.075 U
Diethylphthalate	**7.1**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
4-Chlorophenyl-phenylether	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 J	NR	NR	NR	0.37 U
Fluorene	**50**	NR	0.79 U	0.16 J	0.81 J	NR	0.85 U	NR	NR	NR	0.37 U
4-Nitroaniline	**NA**	NR	1.6 U	0.75 U	3.9 U	NR	3.8 U	NR	NR	NR	0.75 U
N-Nitrosodiphenylamine	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
4-Bromophenyl-phenylether	**NA**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
Hexachlorobenzene	**0.410**	NR	0.079 U	0.037 U	0.19 U	NR	0.19	NR	NR	NR	0.037 U
Phenanthrene	**50**	NR	0.023 J	0.99	6.6	NR	8.8	NR	NR	NR	0.7
Anthracene	**50**	NR	0.79 U	0.3 J	2	NR	2.2	NR	NR	NR	0.03 J
Carbazole	**NA**	NR	0.79 U	0.13 J	0.64 J	NR	1.1 J	NR	NR	NR	0.019 J
Di-n-butylphthalate	**8.1**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
Fluoranthene	**50**	NR	0.049 J	1	7.7	NR	8.4	NR	NR	NR	0.21 J
Pyrene	**50**	NR	0.055 J	1	8.9	NR	9.7	NR	NR	NR	0.2 J
Butylbenzylphthalate	**50**	NR	0.79 U	0.37 U	0.56 J	NR	0.38 J	NR	NR	NR	0.37 U
3,3'-Dichlorobenzidine	**NA**	NR	1.6 U	0.75 U	3.9 U	NR	3.8 U	NR	NR	NR	0.75 U
Benzo(a)anthracene	**0.224 or MDL**	NR	0.044 J	0.48	4.1	NR	4.8	NR	NR	NR	0.13
Chrysene	**0.4**	NR	0.034 J	0.52	4.8	NR	5.2	NR	NR	NR	0.28 J
bis(2-Ethylhexyl)phthalate	**50**	NR	1.2	0.25 J	1 J	NR	0.53 J	NR	NR	NR	0.37 U
Di-n-octylphthalate	**50**	NR	0.79 U	0.37 U	1.9 U	NR	1.9 U	NR	NR	NR	0.37 U
Benzo(b)fluoranthene	**0.22 or MDL**	NR	0.061 J	0.54	4.7	NR	5.7	NR	NR	NR	0.21
Benzo(k)fluoranthene	**0.22 or MDL**	NR	0.028 J	0.24	1.8	NR	2.7	NR	NR	NR	0.034 J
Benzo(a)pyrene	**0.061 or MDL**	NR	0.047 J	0.4	3.4	NR	4.5	NR	NR	NR	0.094
Indeno(1,2,3-cd)pyrene	**3.2**	NR	0.056 J	0.16	1.7	NR	1.6	NR	NR	NR	0.028 J
Dibenz(a,h)anthracene	**0.014 or MDL**	NR	0.079 U	0.063	0.58	NR	0.8	NR	NR	NR	0.037 J
Benzo(g,h,i)perylene	**50**	NR	0.056 J	0.15 J	1.6 J	NR	1.6 J	NR	NR	NR	0.039 J
Total Confident Conc. BNAs (s)			1.2	5.393	46.28		54.2				2.124
Total Estimated Conc. BNA TICs (s)			0		4.9		4.9				15.12

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 1
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-5,14,21,22,23,24

Sample ID	New York TAGM	AOC-5-1-8	AOC-14-1A-1	AOC-14-2-2.5	AOC-14-3-3	AOC-21-1-8	AOC-21-2-5	AOC-22-1-6	AOC-22-1-8	AOC-23-1-7	AOC-24-1-4
Lab Sample Number	Rec. Soil	368851	369406	369407	369408	368439	369405	367960	367961	368854	367959
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/14/02	08/14/02	08/09/02	08/13/02	08/08/02	08/08/02	08/13/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0	1.0	1.0						1.0
PCBs											
Aroclor-1016	#	NR	0.08 U	0.075 U	0.078 U	NR	NR	NR	NR	NR	0.075 U
Aroclor-1221	#	NR	0.08 U	0.075 U	0.078 U	NR	NR	NR	NR	NR	0.075 U
Aroclor-1232	#	NR	0.08 U	0.075 U	0.078 U	NR	NR	NR	NR	NR	0.075 U
Aroclor-1242	#	NR	0.08 U	0.075 U	0.078 U	NR	NR	NR	NR	NR	0.075 U
Aroclor-1248	#	NR	0.08 U	0.075 U	0.36	NR	NR	NR	NR	NR	0.075 U
Aroclor-1254	#	NR	0.08 U	0.075 U	0.68	NR	NR	NR	NR	NR	0.075 U
Aroclor-1260	#	NR	0.08 U	0.075 U	0.38	NR	NR	NR	NR	NR	0.075 U
Aroclor-1262	#	NR	0.08 U	0.075 U	0.078 U	NR	NR	NR	NR	NR	0.075 U
Aroclor-1268	#	NR	0.08 U	0.075 U	0.078 U	NR	NR	NR	NR	NR	0.075 U
WET CHEMISTRY											
TotalCyanide - mg/kg	Site Specific	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 1
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-5,14,21,22,23,24

Sample ID	Eastern USA	New York TAGM	AOC-5-1-8	AOC-14-1A-1	AOC-14-2-2.5	AOC-14-3-3	AOC-21-1-8	AOC-21-2-5	AOC-22-1-6	AOC-22-1-8	AOC-23-1-7	AOC-24-1-4
Lab Sample Number	Background (ppm)	Rec. Soil	368851	369406	369407	369408	368439	369405	367960	367961	368854	367959
Sampling Date		Cleanup Objective	08/13/02	08/13/02	08/14/02	08/14/02	08/09/02	08/13/02	08/08/02	08/08/02	08/13/02	08/08/02
Matrix		Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
METALS												
Aluminum	33,000	SB	5830	5240	4190	5580	NR	12,400	NR	NR	NR	3780
Antimony	N/A	SB	1.3 B	1.4 U	1.2 U	1.4 U	NR	1.2 U	NR	NR	NR	1.0 U
Arsenic	3 - 12	7.5 or SB	6.7	1.7	0.90 B	3.7	NR	3.1	NR	NR	NR	15.5
Barium	15 - 600	300 or SB	135	213	39.4 B	69.7	NR	108	NR	NR	NR	41.9 B
Beryllium	0 - 1.75	0.16 or SB	0.40 B	0.21 B	0.10 B	0.19 B	NR	0.54	NR	NR	NR	0.66
Cadmium	0.1 - 1	1 or SB	1.2 B	0.71 B	0.19 B	0.19 B	NR	0.15 B	NR	NR	NR	0.090 U
Calcium	130 - 35000	SB	3220	13300	37800	71200	NR	110,100	NR	NR	NR	2710
Chromium	1.5 - 40	10 or SB	42.5	15.6	9.2	21.8	NR	18.6	NR	NR	NR	13.9
Cobalt	2.6 - 60	30 or SB	8.9 B	5.6 B	2.8 B	4.4 B	NR	5.2 B	NR	NR	NR	5.8 B
Copper	1 - 50	25 or SB	50.0	33.6	7.4	37.4	NR	14.3	NR	NR	NR	122
Iron	2000 - 550000	2000 or SB	27700	11100	7250	14400	NR	15.7	NR	NR	NR	31200
Lead	200 - 500	SB	293	53.4	12.1	52.4	NR	50.6	NR	NR	NR	48.5
Magnesium	100 - 5000	SB	1730	5070	6890	11400	NR	11700	NR	NR	NR	450 B
Manganese	50 - 5000	SB	174	186	121	214	NR	501	NR	NR	NR	29.6
Mercury	0.001 - 0.2	0.1	0.07	0.07	0.02 B	0.09	NR	0.07	NR	NR	NR	0.11
Nickel	0.5 - 25	13 or SB	49.2	21.5	6.5 B	14.6	NR	14	NR	NR	NR	15.4
Potassium	8500 - 43000	SB	717 B	1500	864 B	1070 B	NR	725 B	NR	NR	NR	400 B
Selenium	0.1 - 3.9	2 or SB	0.95 U	1.00 U	0.86 U	0.98 U	NR	0.87 U	NR	NR	NR	1.0 U
Silver	N/A	SB	0.17 U	0.33 U	0.29 U	0.33 U	NR	0.29 U	NR	NR	NR	0.25 U
Sodium	6000 - 8000	SB	132 B	222 B	207 B	391 B	NR	358 B	NR	NR	NR	79.1 U
Thallium	N/A	SB	1.1 U	1.1 U	0.96 U	1.1 U	NR	0.97 U	NR	NR	NR	0.92 U
Vanadium	1 - 300	150 or SB	22.0	17.7	9.3 B	11.6	NR	16.8	NR	NR	NR	14.0
Zinc	9 - 50	20 or SB	608	923	105	126	NR	137	NR	NR	NR	22.1

U - The compound not detected at the indicated concentration.
J - Approximate Concentration Value
B - Analyte found in the laboratory blank as well as sample.
NR - Not analyzed.
SB - Site Background
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 2
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-25,26

Sample ID	New York TAGM	AOC-25-1-3	AOC-25-2-5	AOC-25-3-7	AOC-26-1-9	AOC-26-2-4	AOC-26-3-7	AOC-26-4-7
Lab Sample Number	Rec. Soil	369400	369403	369404	368438	368847	368852	368853
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/13/02	08/09/02	08/12/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	NA	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Bromomethane	NA	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
VinylChloride	0.2	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Chloroethane	1.9	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
MethyleneChloride	0.1	0.0032 U	0.0033 U	0.0032 U	0.0017 J	0.0017 J	0.0007 J	0.0007 J
Acetone	0.2	0.0053 U	0.024	0.042	0.0062 U	0.12	0.051	0.12
CarbonDisulfide	2.7	0.0053 U	0.0012 J	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0013 J
1,1-Dichloroethene	0.4	0.0021 U	0.0022 U	0.0021 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U
1,1-Dichloroethane	0.2	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0012 J	0.0054 U	0.0057 U
trans-1,2-Dichloroethene	0.3	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
cis-1,2-Dichloroethene	NA	0.0053 U	0.0056 U	0.0053 U	0.0008 J	0.0056 U	0.0054 U	0.0057 U
Chloroform	0.3	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
1,2-Dichloroethane	0.1	0.0021 U	0.0022 U	0.0021 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U
2-Butanone	0.3	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
1,1,1-Trichloroethane	0.8	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
CarbonTetrachloride	0.6	0.0021 U	0.0022 U	0.0021 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U
Bromodichloromethane	NA	0.0011 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
1,2-Dichloropropane	NA	0.0011 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
cis-1,3-Dichloropropene	NA	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Trichloroethene	0.7	0.0011 U	0.0012	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
Dibromochloromethane	NA	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
1,1,2-Trichloroethane	NA	0.0032 U	0.0033 U	0.0032 U	0.0037 U	0.0033 U	0.0032 U	0.0034 U
Benzene	0.06	0.0011 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
trans-1,3-Dichloropropene	NA	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Bromoform	NA	0.0023 J	0.004 J	0.0012 J	0.0079	0.012	0.0027 J	0.0067
4-Methyl-2-Pentanone	1	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
2-Hexanone	NA	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Tetrachloroethene	1.4	0.0011 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
1,1,2,2-Tetrachloroethane	0.6	0.0011 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U
Toluene	1.5	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0020 J	0.0054 U	0.0057 U
Chlorobenzene	1.7	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Ethylbenzene	5.5	0.0043 U	0.0045 U	0.0042 U	0.0049 U	0.0045 U	0.0043 U	0.0046 U
Styrene	NA	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Xylene(Total)	1.2	0.0053 U	0.0056 U	0.0053 U	0.0062 U	0.0056 U	0.0054 U	0.0057 U
Total Confident Conc. VOAs (s)		0	0.025	0.042	0.0079	0.1	0.1	0.1
Total Estimated Conc. VOA TICs (s)		0	0.031	0	0	0.0	0	0

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 2
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-25,26

Sample ID	New York TAGM	AOC-25-1-3	AOC-25-2-5	AOC-25-3-7	AOC-26-1-9	AOC-26-2-4	AOC-26-3-7	AOC-26-4-7
Lab Sample Number	Rec. Soil	369400	369403	369404	368438	368847	368852	368853
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/13/02	08/09/02	08/12/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0		1.0	
SEMIVOLATILE COMPOUNDS (GC/MS)								
Phenol	**0.030 or MDL**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2-Chlorophenol	**0.8**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2-Methylphenol	**0.100 or MDL**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
4-Methylphenol	**0.9**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2-Nitrophenol	**0.330 or MDL**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2,4-Dimethylphenol	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2,4-Dichlorophenol	**0.4**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
4-Chloro-3-methylphenol	**0.240 or MDL**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2,4,6-Trichlorophenol	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2,4,5-Trichlorophenol	**0.1**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2,4-Dinitrophenol	**0.200 or MDL**	1.4 U	1.5 U	1.5 U	1.6 U	NR	1.5 U	NR
4-Nitrophenol	**0.100 or MDL**	1.4 U	1.5 U	1.5 U	1.6 U	NR	1.5 U	NR
4,6-Dinitro-2-methylphenol	**NA**	1.4 U	1.5 U	1.5 U	1.6 U	NR	1.5 U	NR
Pentachlorophenol	**1 or MDL**	1.4 U	1.5 U	1.5 U	1.6 U	NR	1.5 U	NR
bis(2-Chloroethyl)ether	**NA**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
1,3-Dichlorobenzene	**1.6**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
1,4-Dichlorobenzene	**8.5**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
1,2-Dichlorobenzene	**7.9**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
bis(2-chloroisopropyl)ether	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
N-Nitroso-di-n-propylamine	**NA**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Hexachloroethane	**NA**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Nitrobenzene	**0.200 or MDL**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Isophorone	**4.4**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
bis(2-Chloroethoxy)methane	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
1,2,4-Trichlorobenzene	**3.4**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Naphthalene	**13**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
4-Chloroaniline	**0.220 or MDL**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Hexachlorobutadiene	**NA**	0.072 U	0.076 U	0.075 U	0.083 U	NR	0.073 U	NR
2-Methylnaphthalene	**36.400**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 2
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-25,26

Sample ID	New York TAGM	AOC-25-1-3	AOC-25-2-5	AOC-25-3-7	AOC-26-1-9	AOC-26-2-4	AOC-26-3-7	AOC-26-4-7
Lab Sample Number	Rec. Soil	369400	369403	369404	368438	368847	368852	368853
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/13/02	08/09/02	08/12/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0		1.0	
Hexachlorocyclopentadiene	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2-Chloronaphthalene	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2-Nitroaniline	**0.430 or MDL**	0.72 U	0.76 U	0.75 U	0.83 U	NR	0.73 U	NR
Dimethylphthalate	**2.0**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Acenaphthylene	**50**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2,6-Dinitrotoluene	**1.0**	0.072 U	0.076 U	0.075 U	0.083 U	NR	0.073 U	NR
3-Nitroaniline	**.500 or MDL**	0.72 U	0.76 U	0.75 U	0.83 U	NR	0.73 U	NR
Acenaphthene	**50**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Dibenzofuran	**6.2**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
2,4-Dinitrotoluene	**NA**	0.072 U	0.076 U	0.075 U	0.083 U	NR	0.073 U	NR
Diethylphthalate	**7.1**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
4-Chlorophenyl-phenylether	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Fluorene	**50**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
4-Nitroaniline	**NA**	0.72 U	0.76 U	0.75 U	0.83 U	NR	0.73 U	NR
N-Nitrosodiphenylamine	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
4-Bromophenyl-phenylether	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Hexachlorobenzene	**0.410**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Phenanthrene	**50**	0.0094 J	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Anthracene	**50**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Carbazole	**NA**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Di-n-butylphthalate	**8.1**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Fluoranthene	**50**	0.015 J	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Pyrene	**50**	0.016 J	0.38 U	0.38 U	0.0093 J	NR	0.37 U	NR
Butylbenzylphthalate	**50**	0.84	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
3,3'-Dichlorobenzidine	**NA**	0.72 U	0.76 U	0.75 U	0.83 U	NR	0.73 U	NR
Benzo(a)anthracene	**0.224 or MDL**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Chrysene	**0.4**	0.0094 J	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
bis(2-Ethylhexyl)phthalate	**50**	0.076 J	0.092 J	0.38 U	0.34 J	NR	0.37 U	NR
Di-n-octylphthalate	**50**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Benzo(b)fluoranthene	**0.22 or MDL**	0.013 J	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Benzo(k)fluoranthene	**0.22 or MDL**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Benzo(a)pyrene	**0.061 or MDL**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Indeno(1,2,3-cd)pyrene	**3.2**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Dibenz(a,h)anthracene	**0.014 or MDL**	0.036 U	0.038 U	0.038 U	0.041 U	NR	0.037 U	NR
Benzo(g,h,i)perylene	**50**	0.36 U	0.38 U	0.38 U	0.41 U	NR	0.37 U	NR
Total Confident Conc. BNAs (s)		0.84	0	0	0		0	
Total Estimated Conc. BNA TICs (s)		0	0	0	0		0	

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 2
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-25,26

Sample ID	New York TAGM	AOC-25-1-3	AOC-25-2-5	AOC-25-3-7	AOC-26-1-9	AOC-26-2-4	AOC-26-3-7	AOC-26-4-7
Lab Sample Number	Rec. Soil	369400	369403	369404	368438	368847	368852	368853
Sampling Date	Cleanup Objective	08/13/02	08/13/02	08/13/02	08/09/02	08/12/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0		1.0	
PCBs								
Aroclor-1016	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1221	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1232	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1242	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1248	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1254	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1260	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1262	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
Aroclor-1268	#	0.073 U	0.076 U	0.076 U	0.083 U	NR	0.074 U	NR
PESTICIDES								
Aldrin	**0.041**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
alpha-BHC	**0.11**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
beta-BHC	**0.2**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
delta-BHC	**0.3**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
gamma-BHC(Lindane)	**0.06**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Chlordane	**0.54**	NR	NR	NR	0.083 U	NR	0.074 U	NR
4,4'-DDD	**2.9**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
4,4'-DDE	**2.1**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
4,4'-DDT	**2.1**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Dieldrin	**0.044**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
EndosulfanI	**0.9**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
EndosulfanII	**0.9**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Endosulfansulfate	**1.0**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Endrin	**0.1**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Endrinaldehyde	**N/A**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Endrinketone	**N/A**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Heptachlor	**0.1**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Heptachlorepoxide	**0.02**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Methoxychlor	**Site Specific**	NR	NR	NR	0.0083 U	NR	0.0074 U	NR
Toxaphene	**N/A**	NR	NR	NR	0.083 U	NR	0.074 U	NR
WET CHEMISTRY								
TotalCyanide - mg/kg	Site Specific	NR	NR	NR	0.5 U	NR	0.5 U	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 2
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-25,26

Sample ID	Eastern USA	New York TAGM	AOC-25-1-3		AOC-25-2-5		AOC-25-3-7		AOC-26-1-9		AOC-26-2-4		AOC-26-3-7		AOC-26-4-7	
Lab Sample Number	Background (ppm)	Rec. Soil	369400		369403		369404		368438		368847		368852		368853	
Sampling Date		Cleanup Objective	08/13/02		08/13/02		08/13/02		08/09/02		08/12/02		08/13/02		08/13/02	
Matrix		Criteria (mg/kg)	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Dilution Factor			1.0		1.0		1.0		1.0		1.0		1.0		1.0	
METALS																
Aluminum	**33,000**	**SB**	5170		8830		10700		10800		8470		3480		8880	
Antimony	**N/A**	**SB**	1.3	U	1.3	U	1.3	U	1.4	U	1.2	U	0.86	U	2.0	B
Arsenic	**3 - 12**	**7.5 or SB**	0.70	U	0.81	B	1.5		1.0	B	3.6		0.98	B	3.5	
Barium	**15 - 600**	**300 or SB**	52.7		34.2	B	42.2	B	78.2		368		12.9	B	116	
Beryllium	**0 - 1.75**	**0.16 or SB**	0.13	B	0.30	B	0.44		0.73		0.38	B	0.19	B	0.39	B
Cadmium	**0.1 - 1**	**1 or SB**	0.087	U	0.091	U	0.090	U	0.099	U	1.8		0.088	U	0.34	B
Calcium	**130 - 35000**	**SB**	1930		831	B	1980		2630		25200		1210		12500	
Chromium	**1.5 - 40**	**10 or SB**	17.3		15.9		41.4		27.3		21.4		7.9		29.5	
Cobalt	**2.6 - 60**	**30 or SB**	4.2	B	5.9	B	9.6	B	8.6	B	5.5	B	4.7	B	6.5	B
Copper	**1 - 50**	**25 or SB**	14.0		53.8		30.4		18.5		27.2		7.9		68.8	
Iron	**2000 - 550000**	**2000 or SB**	8660		16000		18600		20800		60800		8890		20400	
Lead	**200 - 500**	**SB**	10.3		21.0		7.6		8.4		1540		4.2		193	
Magnesium	**100 - 5000**	**SB**	2990		3560		3210		4810		6010		1530		5630	
Manganese	**50 - 5000**	**SB**	153		210		402		392		443		215		176	
Mercury	**0.001 - 0.2**	**0.1**	0.018	U	0.02	B	0.019	U	0.021	U	0.12		0.02	B	0.10	
Nickel	**0.5 - 25**	**13 or SB**	14.5		15.1		26.0		20.1		15.3		9.7		22.5	
Potassium	**8500 - 43000**	**SB**	1230		513	B	1400		3090		1230	B	429	B	1340	
Selenium	**0.1 - 3.9**	**2 or SB**	0.91	U	0.95	U	0.95	U	1.0	U	1.2	U	0.86	U	0.89	U
Silver	**N/A**	**SB**	0.30	U	0.32	U	0.32	U	0.35	U	0.21	U	0.15	U	0.16	U
Sodium	**6000 - 8000**	**SB**	131	B	431	B	273	B	98.0	U	933	B	79.4	U	180	B
Thallium	**N/A**	**SB**	1.0	U	1.1	U	1.1	U	1.2	U	1.3	U	0.97	U	1.0	U
Vanadium	**1 - 300**	**150 or SB**	13.7		11.9		24.8		25.8		22.9		9.8	B	23.0	
Zinc	**9 - 50**	**20 or SB**	23.1		39.2		339		47.8		419		12.5		215	

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 3
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-27,28,29

Sample ID	New York TAGM	AOC-27-1-6	AOC-27-1-12	AOC-27-2-8	AOC-28-1-4	AOC-28-2-4	AOC-28-3-8	AOC-29-1-4	AOC-29-2-4	AOC-29-2-8
Lab Sample Number	Rec. Soil	367547	367548	367549	368442	368838	368839	368440	368849	368850
Sampling Date	Cleanup Objective	08/06/02	08/06/02	08/06/02	08/09/02	08/12/02	08/12/02	08/09/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg				mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0				1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)										
Chloromethane	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Bromomethane	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
VinylChloride	0.2	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Chloroethane	1.9	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
MethyleneChloride	0.1	0.0022 J	0.0018 J	0.0017 J	NR	NR	NR	0.0016 J	0.0037 U	0.0035 U
Acetone	0.2	0.085	0.0053 U	0.0061 U	NR	NR	NR	0.047	0.0061 U	0.084
CarbonDisulfide	2.7	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0029 J	0.0041 J
1,1-Dichloroethene	0.4	0.0021 U	0.0021 U	0.0024 U	NR	NR	NR	0.0024 U	0.0024 U	0.0023 U
1,1-Dichloroethane	0.2	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
trans-1,2-Dichloroethene	0.3	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
cis-1,2-Dichloroethene	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Chloroform	0.3	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
1,2-Dichloroethane	0.1	0.0021 U	0.0021 U	0.0024 U	NR	NR	NR	0.0024 U	0.0024 U	0.0023 U
2-Butanone	0.3	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
1,1,1-Trichloroethane	0.8	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
CarbonTetrachloride	0.6	0.0021 U	0.0021 U	0.0024 U	NR	NR	NR	0.0024 U	0.0024 U	0.0023 U
Bromodichloromethane	NA	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0012 U	0.0012 U	0.0012 U
1,2-Dichloropropane	NA	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0012 U	0.0012 U	0.0012 U
cis-1,3-Dichloropropene	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Trichloroethene	0.7	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0012 U	0.0012 U	0.0012 U
Dibromochloromethane	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
1,1,2-Trichloroethane	NA	0.0032 U	0.0032 U	0.0036 U	NR	NR	NR	0.0036 U	0.0037 U	0.0035 U
Benzene	0.06	0.0015	0.0010 U	0.0012 U	NR	NR	NR	0.0012 U	0.0012 U	0.0007 J
trans-1,3-Dichloropropene	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Bromoform	NA	0.012	0.0053	0.0051	NR	NR	NR	0.004 J	0.0012 J	0.0018 J
4-Methyl-2-Pentanone	1	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
2-Hexanone	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Tetrachloroethene	1.4	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0012 U	0.0012 U	0.0012 U
1,1,2,2-Tetrachloroethane	0.6	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0012 U	0.0012 U	0.0012 U
Toluene	1.5	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0011 J
Chlorobenzene	1.7	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.001 J	0.0061 U	0.0059 U
Ethylbenzene	5.5	0.0043 U	0.0042 U	0.0049 U	NR	NR	NR	0.0049 U	0.0049 U	0.0047 U
Styrene	NA	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Xylene(Total)	1.2	0.0053 U	0.0053 U	0.0061 U	NR	NR	NR	0.0061 U	0.0061 U	0.0059 U
Total Confident Conc. VOAs (s)		0.1	0.0	0.0				0.047	0	0.1
Total Estimated Conc. VOA TICs (s)		0	0	0				0	0	0.0

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approxamate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 3
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-27,28,29

Sample ID	New York TAGM	AOC-27-1-6	AOC-27-1-12	AOC-27-2-8	AOC-28-1-4	AOC-28-2-4	AOC-28-3-8	AOC-29-1-4	AOC-29-2-4	AOC-29-2-8
Lab Sample Number	Rec. Soil	367547	367548	367549	368442	368838	368839	368440	368849	368850
Sampling Date	Cleanup Objective	08/06/02	08/06/02	08/06/02	08/09/02	08/12/02	08/12/02	08/09/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg				mg/kg	mg/kg	mg/kg
Dilution Factor					2.0	1.0	1.0	1.0	1.0	1.0
SEMIVOLATILE COMPOUNDS (GC/MS)										
Phenol	**0.030 or MDL**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2-Chlorophenol	**0.8**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2-Methylphenol	**0.100 or MDL**	NR	NR	NR	0.78 U	0.37 U	0.033 J	0.42 U	0.43 U	0.46 U
4-Methylphenol	**0.9**	NR	NR	NR	0.094 J	0.0098 J	0.058 J	0.42 U	0.019 J	0.014 J
2-Nitrophenol	**0.330 or MDL**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2,4-Dimethylphenol	**NA**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2,4-Dichlorophenol	**0.4**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
4-Chloro-3-methylphenol	**0.240 or MDL**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2,4,6-Trichlorophenol	**NA**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2,4,5-Trichlorophenol	**0.1**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2,4-Dinitrophenol	**0.200 or MDL**	NR	NR	NR	3.1 U	1.5 U	1.7 U	1.7 U	1.7 U	1.8 U
4-Nitrophenol	**0.100 or MDL**	NR	NR	NR	3.1 U	1.5 U	1.7 U	1.7 U	1.7 U	1.8 U
4,6-Dinitro-2-methylphenol	**NA**	NR	NR	NR	3.1 U	1.5 U	1.7 U	1.7 U	1.7 U	1.8 U
Pentachlorophenol	**1 or MDL**	NR	NR	NR	3.1 U	1.5 U	1.7 U	1.7 U	1.7 U	1.8 U
bis(2-Chloroethyl)ether	**NA**	NR	NR	NR	0.078 U	0.037 U	0.042 U	0.042 U	0.043 U	0.046 U
1,3-Dichlorobenzene	**1.6**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
1,4-Dichlorobenzene	**8.5**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
1,2-Dichlorobenzene	**7.9**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
bis(2-chloroisopropyl)ether	**NA**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
N-Nitroso-di-n-propylamine	**NA**	NR	NR	NR	0.078 U	0.037 U	0.042 U	0.042 U	0.043 U	0.046 U
Hexachloroethane	**NA**	NR	NR	NR	0.078 U	0.037 U	0.042 U	0.042 U	0.043 U	0.046 U
Nitrobenzene	**0.200 or MDL**	NR	NR	NR	0.078 U	0.037 U	0.042 U	0.042 U	0.043 U	0.046 U
Isophorone	**4.4**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
bis(2-Chloroethoxy)methane	**NA**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
1,2,4-Trichlorobenzene	**3.4**	NR	NR	NR	0.078 U	0.037 U	0.042 U	0.042 U	0.043 U	0.046 U
Naphthalene	**13**	NR	NR	NR	1	0.081 J	2.3	0.035 J	0.34 J	0.32 J
4-Chloroaniline	**0.220 or MDL**	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
Hexachlorobutadiene	**NA**	NR	NR	NR	0.16 U	0.073 U	0.085 U	0.085 U	0.086 U	0.092 U
2-Methylnaphthalene	**36.400**	NR	NR	NR	0.86	0.073 J	3.2	0.042 J	0.49	0.49

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approxamate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 3
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-27,28,29

Sample ID	New York TAGM	AOC-27-1-6	AOC-27-1-12	AOC-27-2-8	AOC-28-1-4	AOC-28-2-4	AOC-28-3-8	AOC-29-1-4	AOC-29-2-4	AOC-29-2-8
Lab Sample Number	Rec. Soil	367547	367548	367549	368442	368838	368839	368440	368849	368850
Sampling Date	Cleanup Objective	08/06/02	08/06/02	08/06/02	08/09/02	08/12/02	08/12/02	08/09/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg				mg/kg	mg/kg	mg/kg
Dilution Factor						1.0	1.0	1.0	1.0	1.0
Hexachlorocyclopentadiene	NA	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2-Chloronaphthalene	NA	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
2-Nitroaniline	0.430 or MDL	NR	NR	NR	1.6 U	0.73 U	0.85 U	0.85 U	0.86 U	0.92 U
Dimethylphthalate	2.0	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
Acenaphthylene	50	NR	NR	NR	1.4	0.14 J	0.42 U	0.14 J	0.080 J	0.074 J
2,6-Dinitrotoluene	1.0	NR	NR	NR	0.16 U	0.073 U	0.085 U	0.085 U	0.086 U	0.092 U
3-Nitroaniline	.500 or MDL	NR	NR	NR	1.6 U	0.73 U	0.85 U	0.85 U	0.86 U	0.92 U
Acenaphthene	50	NR	NR	NR	0.077 J	0.11 J	0.42 U	0.42 U	0.43 U	0.46 U
Dibenzofuran	6.2	NR	NR	NR	0.39 J	0.080 J	0.77	0.032 J	0.10 J	0.12 J
2,4-Dinitrotoluene	NA	NR	NR	NR	0.16 U	0.073 U	0.085 U	0.085 U	0.086 U	0.092 U
Diethylphthalate	7.1	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
4-Chlorophenyl-phenylether	NA	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
Fluorene	50	NR	NR	NR	0.25 J	0.11 J	0.42 U	0.0098 J	0.43 U	0.46 U
4-Nitroaniline	NA	NR	NR	NR	1.6 U	0.73 U	0.85 U	0.85 U	0.86 U	0.92 U
N-Nitrosodiphenylamine	NA	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
4-Bromophenyl-phenylether	NA	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
Hexachlorobenzene	0.410	NR	NR	NR	0.078 U	0.037 U	0.042 U	0.042 U	0.043 U	0.046 U
Phenanthrene	50	NR	NR	NR	2.7	1.5	1.3	0.32 J	0.40 J	0.45 J
Anthracene	50	NR	NR	NR	1.2	0.44	0.054 J	0.2 J	0.077 J	0.064 J
Carbazole	NA	NR	NR	NR	0.23 J	0.14 J	0.058 J	0.012 J	0.026 J	0.018 J
Di-n-butylphthalate	8.1	NR	NR	NR	0.78 U	0.37 U	0.72	0.42 U	0.43 U	0.46 U
Fluoranthene	50	NR	NR	NR	7.2	2.2	0.29 J	0.81	0.45	0.31 J
Pyrene	50	NR	NR	NR	7.7	2.1	0.26 J	0.84	0.84	0.54
Butylbenzylphthalate	50	NR	NR	NR	0.8	0.18 J	0.42 U	0.42 U	0.10 J	0.46 U
3,3'-Dichlorobenzidine	NA	NR	NR	NR	1.6 U	0.73 U	0.85 U	0.85 U	0.86 U	0.92 U
Benzo(a)anthracene	0.224 or MDL	NR	NR	NR	4.5	1.1	0.18	0.93	0.57	0.26
Chrysene	0.4	NR	NR	NR	4.8	1.1	0.48	1.2	0.75	0.30 J
bis(2-Ethylhexyl)phthalate	50	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.097 J	0.43 U	0.46 U
Di-n-octylphthalate	50	NR	NR	NR	0.78 U	0.37 U	0.42 U	0.42 U	0.43 U	0.46 U
Benzo(b)fluoranthene	0.22 or MDL	NR	NR	NR	6.5	1.5	0.23	2	0.82	0.35
Benzo(k)fluoranthene	0.22 or MDL	NR	NR	NR	2.8	0.56	0.072	0.91	0.29	0.14
Benzo(a)pyrene	0.061 or MDL	NR	NR	NR	4.1	1.1	0.096	1.2	0.74	0.34
Indeno(1,2,3-cd)pyrene	3.2	NR	NR	NR	2.1	0.72	0.054	1.1	0.36	0.35
Dibenz(a,h)anthracene	0.014 or MDL	NR	NR	NR	0.56	0.16	0.027 J	0.31	0.15	0.14
Benzo(g,h,i)perylene	50	NR	NR	NR	1.6	0.78	0.061 J	0.95	0.42 J	0.54
Total Confident Conc. BNAs (s)					49.82	13	9.4	10.25	5.4	3.1
Total Estimated Conc. BNA TICs (s)					24.72	2.2	23	2.19	2.1	1.6

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approxamate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 3
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-27,28,29

Sample ID	New York TAGM	AOC-27-1-6	AOC-27-1-12	AOC-27-2-8	AOC-28-1-4	AOC-28-2-4	AOC-28-3-8	AOC-29-1-4	AOC-29-2-4	AOC-29-2-8
Lab Sample Number	Rec. Soil	367547	367548	367549	368442	368838	368839	368440	368849	368850
Sampling Date	Cleanup Objective	08/06/02	08/06/02	08/06/02	08/09/02	08/12/02	08/12/02	08/09/02	08/13/02	08/13/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg				mg/kg	mg/kg	mg/kg
Dilution Factor								1.0	1.0	1.0
PCBs										
Aroclor-1016	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1221	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1232	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1242	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1248	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1254	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1260	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1262	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
Aroclor-1268	#	NR	NR	NR	NR	NR	NR	0.086 U	0.086 U	0.093 U
WET CHEMISTRY										
TotalCyanide - mg/kg	Site Specific	NR	NR	NR	NR	NR	NR	NR	NR	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approxamate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 3
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-27,28,29

Sample ID	Eastern USA	New York TAGM	AOC-27-1-6	AOC-27-1-12	AOC-27-2-8	AOC-28-1-4	AOC-28-2-4	AOC-28-3-8	AOC-29-1-4	AOC-29-2-4	AOC-29-2-8
Lab Sample Number	Background (ppm)	Rec. Soil	367547	367548	367549	368442	368838	368839	368440	368849	368850
Sampling Date		Cleanup Objective	08/06/02	08/06/02	08/06/02	08/09/02	08/12/02	08/12/02	08/09/02	08/13/02	08/13/02
Matrix		Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units			mg/kg	mg/kg	mg/kg				mg/kg	mg/kg	mg/kg
Dilution Factor			1.0	1.0	1.0				1.0	1.0	1.0
METALS											
Aluminum	**33,000**	**SB**	NR	NR	NR	NR	NR	NR	12600	4350	5670
Antimony	**N/A**	**SB**	NR	NR	NR	NR	NR	NR	7.4	128	31.5
Arsenic	**3 - 12**	**7.5 or SB**	NR	NR	NR	NR	NR	NR	5.1	13.5	16.8
Barium	**15 - 600**	**300 or SB**	NR	NR	NR	NR	NR	NR	323	324	195
Beryllium	**0 - 1.75**	**0.16 or SB**	NR	NR	NR	NR	NR	NR	0.82	0.32 B	0.50 B
Cadmium	**0.1 - 1**	**1 or SB**	NR	NR	NR	NR	NR	NR	1.7	1.5 B	0.76 B
Calcium	**130 - 35000**	**SB**	NR	NR	NR	NR	NR	NR	7850	8750	7690
Chromium	**1.5 - 40**	**10 or SB**	NR	NR	NR	NR	NR	NR	37.4	28.4	21.7
Cobalt	**2.6 - 60**	**30 or SB**	NR	NR	NR	NR	NR	NR	9.6 B	6.4 B	8.2 B
Copper	**1 - 50**	**25 or SB**	NR	NR	NR	NR	NR	NR	72.4	176	143
Iron	**2000 - 550000**	**2000 or SB**	NR	NR	NR	NR	NR	NR	28600	29300	41400
Lead	**200 - 500**	**SB**	NR	NR	NR	NR	NR	NR	2740	50100	1940
Magnesium	**100 - 5000**	**SB**	NR	NR	NR	NR	NR	NR	4690	2910	1380
Manganese	**50 - 5000**	**SB**	NR	NR	NR	NR	NR	NR	475	185	213
Mercury	**0.001 - 0.2**	**0.1**	NR	NR	NR	NR	NR	NR	0.60	0.15	0.21
Nickel	**0.5 - 25**	**13 or SB**	NR	NR	NR	NR	NR	NR	26.9	23.8	37.4
Potassium	**8500 - 43000**	**SB**	NR	NR	NR	NR	NR	NR	1260	489 B	380 B
Selenium	**0.1 - 3.9**	**2 or SB**	NR	NR	NR	NR	NR	NR	0.98 U	1.4 U	0.98 U
Silver	**N/A**	**SB**	NR	NR	NR	NR	NR	NR	0.33 U	3.3 B	0.35 B
Sodium	**6000 - 8000**	**SB**	NR	NR	NR	NR	NR	NR	180 B	232 B	319 B
Thallium	**N/A**	**SB**	NR	NR	NR	NR	NR	NR	1.1 U	1.5 U	1.1 U
Vanadium	**1 - 300**	**150 or SB**	NR	NR	NR	NR	NR	NR	37.0	19.7	21.3
Zinc	**9 - 50**	**20 or SB**	NR	NR	NR	NR	NR	NR	507	755	3690

U - The compound not detected at the indicated concentration.
J - Approximate concentration B - Analyte found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm
SB - Site Background

Table 4
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-30,32,33

Sample ID	New York TAGM	AOC-30-1-6	AOC-30-2-1	AOC-30-2-8	AOC-30-3-4	AOC-30-3-6	AOC-32-1-3	AOC-32-2-7	AOC-33-1-5
Lab Sample Number	Rec. Soil	368432	368433	368434	368435	368436	368841	368842	368422
Sampling Date	Cleanup Objective	08/09/02	08/09/02	08/09/02	08/09/02	08/09/02	08/12/02	08/12/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)									
Chloromethane	**NA**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Bromomethane	**NA**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
VinylChloride	**0.2**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Chloroethane	**1.9**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
MethyleneChloride	**0.1**	0.0016 J	0.0014 J	0.002 J	0.002 J	0.002 J	0.0006 J	0.0010 J	0.0017 J
Acetone	**0.2**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.093	0.026	0.027
CarbonDisulfide	**2.7**	0.0027 J	0.0035 J	0.0012 J	0.0051 U	0.0051 U	0.0026 J	0.0008 J	0.0041 J
1,1-Dichloroethene	**0.4**	0.0019 U	0.0021 U	0.0021 U	0.002 U	0.002 U	0.0021 U	0.0023 U	0.0023 U
1,1-Dichloroethane	**0.2**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
trans-1,2-Dichloroethene	**0.3**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
cis-1,2-Dichloroethene	**NA**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Chloroform	**0.3**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
1,2-Dichloroethane	**0.1**	0.0019 U	0.0021 U	0.0021 U	0.002 U	0.002 U	0.0021 U	0.0023 U	0.0023 U
2-Butanone	**0.3**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
1,1,1-Trichloroethane	**0.8**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
CarbonTetrachloride	**0.6**	0.0019 U	0.0021 U	0.0021 U	0.002 U	0.002 U	0.0021 U	0.0023 U	0.0023 U
Bromodichloromethane	**NA**	0.0009 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.0010 U	0.0011 U	0.0012 U
1,2-Dichloropropane	**NA**	0.0009 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.0010 U	0.0011 U	0.0012 U
cis-1,3-Dichloropropene	**NA**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Trichloroethene	**0.7**	0.0009 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.0010 U	0.0011 U	0.0012 U
Dibromochloromethane	**NA**	0.0006 J	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
1,1,2-Trichloroethane	**NA**	0.0028 U	0.0032 U	0.0032 U	0.0031 U	0.003 U	0.0031 U	0.0034 U	0.0035 U
Benzene	**0.06**	0.0009 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.0010 U	0.0011 U	0.0012 U
trans-1,3-Dichloropropene	**NA**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Bromoform	**NA**	0.014	0.013	0.0095	0.0098	0.0084	0.0032 J	0.0041 J	0.0062
4-Methyl-2-Pentanone	**1**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
2-Hexanone	**NA**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Tetrachloroethene	**1.4**	0.0009 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.0010 U	0.0011 U	0.0012 U
1,1,2,2-Tetrachloroethane	**0.6**	0.0009 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.0010 U	0.0011 U	0.0012 U
Toluene	**1.5**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Chlorobenzene	**1.7**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Ethylbenzene	**5.5**	0.0038 U	0.0043 U	0.0042 U	0.0041 U	0.004 U	0.0042 U	0.0046 U	0.0047 U
Styrene	**NA**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.0057 U	0.0058 U
Xylene(Total)	**1.2**	0.0047 U	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0026 J	0.0057 U	0.0058 U
Total Confident Conc. VOAs (s)		0.014	0.013	0.0095	0.0098	0.0084	0.1	0.0	0.033
Total Estimated Conc. VOA TICs (s)		0	0.006	0	0	0	0.9	0	0.023

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 4
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-30,32,33

Sample ID	New York TAGM	AOC-30-1-6	AOC-30-2-1	AOC-30-2-8	AOC-30-3-4	AOC-30-3-6	AOC-32-1-3	AOC-32-2-7	AOC-33-1-5
Lab Sample Number	Rec. Soil	368432	368433	368434	368435	368436	368841	368842	368422
Sampling Date	Cleanup Objective	08/09/02	08/09/02	08/09/02	08/09/02	08/09/02	08/12/02	08/12/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor							1.0	1.0	1.0
SEMIVOLATILE COMPOUNDS (GC/MS)									
Phenol	**0.030 or MDL**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2-Chlorophenol	**0.8**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2-Methylphenol	**0.100 or MDL**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
4-Methylphenol	**0.9**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2-Nitrophenol	**0.330 or MDL**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2,4-Dimethylphenol	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2,4-Dichlorophenol	**0.4**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
4-Chloro-3-methylphenol	**0.240 or MDL**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2,4,6-Trichlorophenol	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2,4,5-Trichlorophenol	**0.1**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2,4-Dinitrophenol	**0.200 or MDL**	NR	NR	NR	NR	NR	7.4 U	1.5 U	1.6 U
4-Nitrophenol	**0.100 or MDL**	NR	NR	NR	NR	NR	7.4 U	1.5 U	1.6 U
4,6-Dinitro-2-methylphenol	**NA**	NR	NR	NR	NR	NR	7.4 U	1.5 U	1.6 U
Pentachlorophenol	**1 or MDL**	NR	NR	NR	NR	NR	7.4 U	1.5 U	1.6 U
bis(2-Chloroethyl)ether	**NA**	NR	NR	NR	NR	NR	0.18 U	0.039 U	0.04 U
1,3-Dichlorobenzene	**1.6**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
1,4-Dichlorobenzene	**8.5**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
1,2-Dichlorobenzene	**7.9**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
bis(2-chloroisopropyl)ether	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
N-Nitroso-di-n-propylamine	**NA**	NR	NR	NR	NR	NR	0.18 U	0.039 U	0.04 U
Hexachloroethane	**NA**	NR	NR	NR	NR	NR	0.18 U	0.039 U	0.04 U
Nitrobenzene	**0.200 or MDL**	NR	NR	NR	NR	NR	0.18 U	0.039 U	0.04 U
Isophorone	**4.4**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
bis(2-Chloroethoxy)methane	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
1,2,4-Trichlorobenzene	**3.4**	NR	NR	NR	NR	NR	0.18 U	0.039 U	0.04 U
Naphthalene	**13**	NR	NR	NR	NR	NR	0.90 J	0.39 U	0.026 J
4-Chloroaniline	**0.220 or MDL**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
Hexachlorobutadiene	**NA**	NR	NR	NR	NR	NR	0.37 U	0.077 U	0.08 U
2-Methylnaphthalene	**36.400**	NR	NR	NR	NR	NR	1.0 J	0.39 U	0.021 J

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 4
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-30,32,33

Sample ID	New York TAGM	AOC-30-1-6	AOC-30-2-1	AOC-30-2-8	AOC-30-3-4	AOC-30-3-6	AOC-32-1-3	AOC-32-2-7	AOC-33-1-5
Lab Sample Number	Rec. Soil	368432	368433	368434	368435	368436	368841	368842	368422
Sampling Date	Cleanup Objective	08/09/02	08/09/02	08/09/02	08/09/02	08/09/02	08/12/02	08/12/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor							1.0	1.0	1.0
Hexachlorocyclopentadiene	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2-Chloronaphthalene	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
2-Nitroaniline	**0.430 or MDL**	NR	NR	NR	NR	NR	3.7 U	0.77 U	0.8 U
Dimethylphthalate	**2.0**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
Acenaphthylene	**50**	NR	NR	NR	NR	NR	0.12 J	0.39 U	0.1 J
2,6-Dinitrotoluene	**1.0**	NR	NR	NR	NR	NR	0.37 U	0.077 U	0.08 U
3-Nitroaniline	**.500 or MDL**	NR	NR	NR	NR	NR	3.7 U	0.77 U	0.8 U
Acenaphthene	**50**	NR	NR	NR	NR	NR	2.2	0.39 U	0.11 J
Dibenzofuran	**6.2**	NR	NR	NR	NR	NR	1.8 J	0.39 U	0.0099 J
2,4-Dinitrotoluene	**NA**	NR	NR	NR	NR	NR	0.37 U	0.077 U	0.08 U
Diethylphthalate	**7.1**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
4-Chlorophenyl-phenylether	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
Fluorene	**50**	NR	NR	NR	NR	NR	1.8 J	0.39 U	0.032 J
4-Nitroaniline	**NA**	NR	NR	NR	NR	NR	3.7 U	0.77 U	0.8 U
N-Nitrosodiphenylamine	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
4-Bromophenyl-phenylether	**NA**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
Hexachlorobenzene	**0.410**	NR	NR	NR	NR	NR	0.18 U	0.039 U	0.04 U
Phenanthrene	**50**	NR	NR	NR	NR	NR	17	0.39 U	0.28 J
Anthracene	**50**	NR	NR	NR	NR	NR	4.3	0.39 U	0.11 J
Carbazole	**NA**	NR	NR	NR	NR	NR	2.4	0.011 J	0.4 U
Di-n-butylphthalate	**8.1**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
Fluoranthene	**50**	NR	NR	NR	NR	NR	17	0.39 U	0.83
Pyrene	**50**	NR	NR	NR	NR	NR	17	0.0083 J	1
Butylbenzylphthalate	**50**	NR	NR	NR	NR	NR	0.93 J	0.39 U	0.4 U
3,3'-Dichlorobenzidine	**NA**	NR	NR	NR	NR	NR	3.7 U	0.77 U	0.8 U
Benzo(a)anthracene	**0.224 or MDL**	NR	NR	NR	NR	NR	7.9	0.039 U	0.38
Chrysene	**0.4**	NR	NR	NR	NR	NR	8.3	0.39 U	0.5
bis(2-Ethylhexyl)phthalate	**50**	NR	NR	NR	NR	NR	2.3	0.39 U	0.4 U
Di-n-octylphthalate	**50**	NR	NR	NR	NR	NR	1.8 U	0.39 U	0.4 U
Benzo(b)fluoranthene	**0.22 or MDL**	NR	NR	NR	NR	NR	9.0	0.039 U	0.41
Benzo(k)fluoranthene	**0.22 or MDL**	NR	NR	NR	NR	NR	3.4	0.039 U	0.17
Benzo(a)pyrene	**0.061 or MDL**	NR	NR	NR	NR	NR	6.2	0.039 U	0.32
Indeno(1,2,3-cd)pyrene	**3.2**	NR	NR	NR	NR	NR	3.2	0.039 U	0.25
Dibenz(a,h)anthracene	**0.014 or MDL**	NR	NR	NR	NR	NR	0.99	0.039 U	0.068
Benzo(g,h,i)perylene	**50**	NR	NR	NR	NR	NR	3.2	0.39 U	0.28 J
Total Confident Conc. BNAs (s)							104	0	3.928
Total Estimated Conc. BNA TICs (s)							36	0	0.36

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 4
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-30,32,33

Sample ID	New York TAGM	AOC-30-1-6	AOC-30-2-1	AOC-30-2-8	AOC-30-3-4	AOC-30-3-6	AOC-32-1-3	AOC-32-2-7	AOC-33-1-5
Lab Sample Number	Rec. Soil	368432	368433	368434	368435	368436	368841	368842	368422
Sampling Date	Cleanup Objective	08/09/02	08/09/02	08/09/02	08/09/02	08/09/02	08/12/02	08/12/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor							1.0	1.0	1.0
PCBs									
Aroclor-1016	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
Aroclor-1221	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
Aroclor-1232	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
Aroclor-1242	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
Aroclor-1248	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
Aroclor-1254	#	NR	NR	NR	NR	NR	**5.3**	0.078 U	0.081 U
Aroclor-1260	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
Aroclor-1262	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
Aroclor-1268	#	NR	NR	NR	NR	NR	0.37 U	0.078 U	0.081 U
PESTICIDES									
Aldrin	**0.041**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
alpha-BHC	**0.11**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
beta-BHC	**0.2**	NR	NR	NR	NR	NR	0.048 P*	0.0078 U	0.0081 U
delta-BHC	**0.3**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
gamma-BHC(Lindane)	**0.06**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
Chlordane	**0.54**	NR	NR	NR	NR	NR	0.15 U	0.078 U	0.081 U
4,4'-DDD	**2.9**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
4,4'-DDE	**2.1**	NR	NR	NR	NR	NR	0.083	0.0078 U	0.0081 U
4,4'-DDT	**2.1**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
Dieldrin	**0.044**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
EndosulfanI	**0.9**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
EndosulfanII	**0.9**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
Endosulfansulfate	**1.0**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
Endrin	**0.1**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.013
Endrinaldehyde	**N/A**	NR	NR	NR	NR	NR	0.053 P*	0.0078 U	0.0081 U
Endrinketone	**N/A**	NR	NR	NR	NR	NR	0.031 P*	0.0078 U	0.0081 P*
Heptachlor	**0.1**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
Heptachlorepoxide	**0.02**	NR	NR	NR	NR	NR	0.015 U	0.0078 U	0.0081 U
Methoxychlor	**Site Specific**	NR	NR	NR	NR	NR	0.031 P*	0.0078 U	0.018
Toxaphene	**N/A**	NR	NR	NR	NR	NR	0.15 U	0.078 U	0.081 U
WET CHEMISTRY									
Hezavalent Chromium		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NR	NR	NR
TotalCyanide - mg/kg	Site Specific	NR	NR	NR	NR	NR	0.5 U	0.5 U	0.5 U

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 4
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC-30,32,33

Sample ID	Eastern USA	New York TAGM	AOC-30-1-6		AOC-30-2-1		AOC-30-2-8		AOC-30-3-4		AOC-30-3-6		AOC-32-1-3		AOC-32-2-7		AOC-33-1-5	
Lab Sample Number	Background (ppm)	Rec. Soil	368432		368433		368434		368435		368436		368841		368842		368422	
Sampling Date		Cleanup Objective	08/09/02		08/09/02		08/09/02		08/09/02		08/09/02		08/12/02		08/12/02		08/08/02	
Matrix		Criteria (mg/kg)	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Dilution Factor			1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
METALS																		
Aluminum	**33,000**	**SB**	7340		6050		6200		6960		7590		4810		7680		11100	
Antimony	**N/A**	**SB**	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U	1.5	B	0.82	U	1.3	U
Arsenic	**3 - 12**	**7.5 or SB**	2.1		1.9		1.0	B	1.0		0.97	B	3.0		1.4		4.0	
Barium	**15 - 600**	**300 or SB**	12.5	B	25.3	B	11.9	B	12.2	B	8.4	B	106		13.9	B	52.7	
Beryllium	**0 - 1.75**	**0.16 or SB**	0.28	B	0.24	B	0.24	B	0.30	B	0.28	B	0.20	B	0.24	B	0.51	
Cadmium	**0.1 - 1**	**1 or SB**	0.084	U	0.081	U	0.085	U	0.076	U	0.084	U	1.3		0.084	U	0.088	U
Calcium	**130 - 35000**	**SB**	1060		38400		11000		16400		2500		102800		8710		5780	
Chromium	**1.5 - 40**	**10 or SB**	10.0		9.3		8.7		10.0		9.9		20.6		9.5		16.1	
Cobalt	**2.6 - 60**	**30 or SB**	5.3	B	4.4	B	5.1	B	5.4	B	5.5	B	4.4	B	5.2	B	9.3	B
Copper	**1 - 50**	**25 or SB**	10.0		11.7		7.9		9.7		10.1		61.6		9.5		17.1	
Iron	**2000 - 550000**	**2000 or SB**	17100		13500		13600		17000		17700		10400		17100		24700	
Lead	**200 - 500**	**SB**	4.6		22.8		4.4		4.4		3.8		100		5.3		8.1	
Magnesium	**100 - 5000**	**SB**	4020		4460		4650		4180		4800		27800		4380		5940	
Manganese	**50 - 5000**	**SB**	203		215		171		178		168		196		185		316	
Mercury	**0.001 - 0.2**	**0.1**	0.017	U	0.03	B	0.019	U	0.02	B	0.017	U	0.91		0.019	U	0.02	B
Nickel	**0.5 - 25**	**13 or SB**	14.9		12.0		12.2		14.4		14.9		25.7		15.1		21.7	
Potassium	**8500 - 43000**	**SB**	871	B	835	B	846	B	692	B	726	B	987	B	828	B	1600	
Selenium	**0.1 - 3.9**	**2 or SB**	0.88	U	0.85	U	0.89	U	0.80	U	0.88	U	0.86	U	0.82	U	0.92	U
Silver	**N/A**	**SB**	0.29	U	0.28	U	0.30	U	0.27	U	0.29	U	0.33	B	0.15	U	0.31	U
Sodium	**6000 - 8000**	**SB**	88.8	B	317	B	125	B	182	B	83.0	U	482	B	217	B	586	B
Thallium	**N/A**	**SB**	0.98	U	0.95	U	1.00	U	0.89	U	0.99	U	0.97	U	0.93	U	1.0	U
Vanadium	**1 - 300**	**150 or SB**	10.8		10.3	B	11.1		11.1		10.6		75.9		11.0		17.7	
Zinc	**9 - 50**	**20 or SB**	55.9		49.2		41.3		37.0		39.9		409		38.6		65.9	

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
NR - Not analyzed.
SB - Site Background
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 5
Soil Sampling Results
Former Genral Motors Site
Tarrytown, New York
AOC-31

Sample ID	New York	AOC-31-1	AOC-31-2	AOC-31-3	AOC-31-4	AOC-31-5	AOC-31-6	AOC-31-7	AOC-31-8	AOC-31-9	AOC-31-10	AOC-31-11	AOC-31-12	AOC-31-13
Lab Sample Number	TAGM	369422	369423	369737	369738	369739	369740	369741	369742	369743	369744	369746	369747	369748
Sampling Date	Rec. Soil	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/16/02	08/16/02	08/16/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)														
Chloromethane	NA	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Bromomethane	NA	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
VinylChloride	0.2	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Chloroethane	1.9	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
MethyleneChloride	0.1	0.001 J	0.0016 J	0.0009 J	0.0013 J	0.0017 J	0.0021 J	0.0012 J	0.0012 J	0.0009 J	0.0018 J	0.0028 J	0.0024 J	0.0018 J
Acetone	0.2	0.060	0.096	0.042	0.069	0.054	0.058	0.05	0.055	0.061	0.058	0.074	0.067	0.054
CarbonDisulfide	2.7	0.002 J	0.0071	0.0016 J	0.002 J	0.001 J	0.0009 J	0.0018 J	0.0012 J	0.0013 J	0.0014 J	0.0013 J	0.0008 J	0.0008 J
1,1-Dichloroethene	0.4	0.0022 U	0.0022 U	0.0023 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0023 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U
1,1-Dichloroethane	0.2	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
trans-1,2-Dichloroethene	0.3	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
cis-1,2-Dichloroethene	NA	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Chloroform	0.3	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
1,2-Dichloroethane	0.1	0.0022 U	0.0022 U	0.0023 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0023 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U
2-Butanone	0.3	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.052	0.0057 U	0.0057 U
1,1,1-Trichloroethane	0.8	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
CarbonTetrachloride	0.6	0.0022 U	0.0022 U	0.0023 U	0.0024 U	0.0024 U	0.0023 U	0.0024 U	0.0023 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U
Bromodichloromethane	NA	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
1,2-Dichloropropane	NA	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
cis-1,3-Dichloropropene	NA	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Trichloroethene	0.7	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.002	0.0012 U	0.0011 U	0.0011 U
Dibromochloromethane	NA	0.0011 J	0.001 J	0.0008 J	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
1,1,2-Trichloroethane	NA	0.0034 U	0.0033 U	0.0034 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0034 U	0.0034 U	0.0033 U	0.0035 U	0.0034 U	0.0034 U
Benzene	0.06	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
trans-1,3-Dichloropropene	NA	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Bromoform	NA	0.012	0.010	0.0073	0.0032 J	0.01	0.0048	0.0028 J	0.0018 J	0.0028 J	0.0027 J	0.0023 J	0.003 J	0.0032 J
4-Methyl-2-Pentanone	1	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0065	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
2-Hexanone	NA	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Tetrachloroethene	1.4	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
1,1,2,2-Tetrachloroethane	0.6	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0011 U
Toluene	1.5	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Chlorobenzene	1.7	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Ethylbenzene	5.5	0.0045 U	0.0044 U	0.0045 U	0.0047 U	0.0047 U	0.0046 U	0.0047 U	0.0045 U	0.0045 U	0.0044 U	0.0047 U	0.0046 U	0.0046 U
Styrene	NA	0.0056 U	0.0054 U	0.0057 U	0.0059 U	0.0059 U	0.0058 U	0.0059 U	0.0057 U	0.0056 U	0.0055 U	0.0059 U	0.0057 U	0.0057 U
Xylene(Total)	1.2	0.002 J	0.0018 J	0.0029 J	0.0059 U	0.0023 J	0.0028 J	0.0059 U	0.0057 U	0.0056 U	0.0031 J	0.0059 U	0.0057 U	0.0057 U
Total Confident Conc. VOAs (s)		0.072	0.113	0.049	0.069	0.071	0.063	0.05	0.055	0.061	0.06	0.126	0.067	0.054
Total Estimated Conc. VOA TICs (s)		0.0087	0.063	0.017	0.013	0.017	0.0093	0.018	0.011	0.042	0.107	0.042	0.015	0.023

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 5
Soil Sampling Results
Former Genral Motors Site
Tarrytown, New York
AOC-31

Sample ID	New York	AOC-31-1	AOC-31-2	AOC-31-3	AOC-31-4	AOC-31-5	AOC-31-6	AOC-31-7	AOC-31-8	AOC-31-9	AOC-31-10	AOC-31-11	AOC-31-12	AOC-31-13
Lab Sample Number	TAGM	369422	369423	369737	369738	369739	369740	369741	369742	369743	369744	369746	369747	369748
Sampling Date	Rec. Soil	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/16/02	08/16/02	08/16/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		10	25	25.0	10.0	20.0	20.0	20.0	25.0	20.0	25.0	25.0	20.0	10.0
SEMIVOLATILE COMPOUNDS (GC/MS)														
Phenol	**0.030 or MDL**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2-Chlorophenol	**0.8**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2-Methylphenol	**0.100 or MDL**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
4-Methylphenol	**0.9**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2-Nitrophenol	**0.330 or MDL**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2,4-Dimethylphenol	**NA**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2,4-Dichlorophenol	**0.4**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
4-Chloro-3-methylphenol	**0.240 or MDL**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2,4,6-Trichlorophenol	**NA**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2,4,5-Trichlorophenol	**0.1**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2,4-Dinitrophenol	**0.200 or MDL**	16 U	38 U	38 U	16 U	32 U	31 U	32 U	39 U	31 U	39 U	40 U	31 U	15 U
4-Nitrophenol	**0.100 or MDL**	16 U	38 U	38 U	16 U	32 U	31 U	32 U	39 U	31 U	39 U	40 U	31 U	15 U
4,6-Dinitro-2-methylphenol	**NA**	16 U	38 U	38 U	16 U	32 U	31 U	32 U	39 U	31 U	39 U	40 U	31 U	15 U
Pentachlorophenol	**1 or MDL**	16 U	38 U	38 U	16 U	32 U	31 U	32 U	39 U	31 U	39 U	40 U	31 U	15 U
bis(2-Chloroethyl)ether	**NA**	0.39 U	0.95 U	0.96 U	0.4 U	0.8 U	0.77 U	0.79 U	0.98 U	0.79 U	0.97 U	0.99 U	0.78 U	0.39 U
1,3-Dichlorobenzene	**1.6**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
1,4-Dichlorobenzene	**8.5**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
1,2-Dichlorobenzene	**7.9**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
bis(2-chloroisopropyl)ether	**NA**	0.39 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
N-Nitroso-di-n-propylamine	**NA**	0.39 U	0.95 U	0.96 U	0.4 U	0.8 U	0.77 U	0.79 U	0.98 U	0.79 U	0.97 U	0.99 U	0.78 U	0.39 U
Hexachloroethane	**NA**	0.39 U	0.95 U	0.96 U	0.4 U	0.8 U	0.77 U	0.79 U	0.98 U	0.79 U	0.97 U	0.99 U	0.78 U	0.39 U
Nitrobenzene	**0.200 or MDL**	0.39 U	0.95 U	0.96 U	0.4 U	0.8 U	0.77 U	0.79 U	0.98 U	0.79 U	0.97 U	0.99 U	0.78 U	0.39 U
Isophorone	**4.4**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
bis(2-Chloroethoxy)methane	**NA**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
1,2,4-Trichlorobenzene	**3.4**	0.39 U	0.95 U	0.96 U	0.4 U	0.8 U	0.77 U	0.79 U	0.98 U	0.79 U	0.97 U	0.99 U	0.78 U	0.39 U
Naphthalene	**13**	0.78 J	1 J	1.3 J	0.59 J	0.9 J	0.78 J	1.5 J	4.2 J	1.5 J	2.7 J	1.8 J	0.5 J	0.15 J
4-Chloroaniline	**0.220 or MDL**	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
Hexachlorobutadiene	**NA**	0.79 U	1.9 U	1.9 U	0.8 U	1.6 U	1.5 U	1.6 U	2 U	1.6 U	1.9 U	2 U	1.6 U	0.77 U
2-Methylnaphthalene	**36.400**	0.82 J	1.2 J	1.8 J	0.65 J	1.3 J	1 J	2.2 J	4.2 J	1.8 J	2 J	4.2 J	0.68 J	0.2 J

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NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 5
Soil Sampling Results
Former Genral Motors Site
Tarrytown, New York
AOC-31

Sample ID	New York	AOC-31-1	AOC-31-2	AOC-31-3	AOC-31-4	AOC-31-5	AOC-31-6	AOC-31-7	AOC-31-8	AOC-31-9	AOC-31-10	AOC-31-11	AOC-31-12	AOC-31-13
Lab Sample Number	TAGM	369422	369423	369737	369738	369739	369740	369741	369742	369743	369744	369746	369747	369748
Sampling Date	Rec. Soil	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/16/02	08/16/02	08/16/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		10	25	25.0	10.0	20.0	20.0	20.0	25.0	20.0	25.0	25.0	20.0	10.0
Hexachlorocyclopentadiene	NA	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2-Chloronaphthalene	NA	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
2-Nitroaniline	0.430 or MDL	7.9 U	19 U	19 U	8 U	16 U	15 U	16 U	20 U	16 U	19 U	20 U	16 U	7.7 U
Dimethylphthalate	2.0	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
Acenaphthylene	50	0.12 J	0.57 J	0.44 J	0.28 J	1.1 J	7.7 U	0.7 J	0.85 J	0.84 J	1.7 J	0.79 J	0.48 J	0.2 J
2,6-Dinitrotoluene	1.0	0.79 U	1.9 U	1.9 U	0.8 U	1.6 U	1.5 U	1.6 U	2 U	1.6 U	1.9 U	2 U	1.6 U	0.77 U
3-Nitroaniline	.500 or MDL	7.9 U	19 U	19 U	8 U	16 U	15 U	16 U	20 U	16 U	19 U	20 U	16 U	7.7 U
Acenaphthene	50	4	7.6 J	7.4 J	3.4 J	7.4 J	5.4 J	9.9	16	7.4 J	9.6 J	16	3.3 J	1 J
Dibenzofuran	6.2	1.8 J	3 J	4.1 J	1.7 J	3.2 J	2.5 J	5.2 J	8.9 J	3.7 J	4.9 J	9.6 J	1.5 J	0.53 J
2,4-Dinitrotoluene	NA	0.79 U	1.9 U	1.9 U	0.8 U	1.6 U	1.5 U	1.6 U	2 U	1.6 U	1.9 U	2 U	1.6 U	0.77 U
Diethylphthalate	7.1	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
4-Chlorophenyl-phenylether	NA	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
Fluorene	50	3.6 J	5.9 J	7.9 J	3.7 J	8.2	6.1 J	12	17	8.2	10	20	3.4 J	1.1 J
4-Nitroaniline	NA	7.9 U	19 U	19 U	8 U	16 U	15 U	16 U	20 U	16 U	19 U	20 U	16 U	7.7 U
N-Nitrosodiphenylamine	NA	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
4-Bromophenyl-phenylether	NA	3.9 U	9.5 U	9.6 U	4 U	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	9.9 U	7.8 U	3.9 U
Hexachlorobenzene	0.410	0.39 U	0.95 U	0.96 U	0.4 U	0.8 U	0.77 U	0.79 U	0.98 U	0.79 U	0.97 U	0.99 U	0.78 U	0.39 U
Phenanthrene	50	29	62	74	36	73	47	92	120	88	69	140	30	13
Anthracene	50	8.1	17	26	10	24	15	26	33	24	21	40	10	4.5
Carbazole	NA	4.4	7.4 J	6.4 J	4.4	8	5.3 J	9.8	16	8.1	8.5 J	13	3.8 J	1.3 J
Di-n-butylphthalate	8.1	3.9 U	9.5 U	9.6 U	9.6	8 U	7.7 U	7.9 U	9.8 U	7.9 U	9.7 U	3.6 J	7.8 U	3.9 U
Fluoranthene	50	35	80	120	53	130	74	120	140	120	100	150	54	23
Pyrene	50	29	84	100	55	130	73	120	140	140	99	160	68	23
Butylbenzylphthalate	50	2.6 J	9.5 U	9.6 U	2.2 J	8.6	7.1 J	11	9.5 J	8.6	7.5 J	13	4.4 J	1.1 J
3,3'-Dichlorobenzidine	NA	7.9 U	19 U	19 U	8 U	16 U	15 U	16 U	20 U	16 U	19 U	20 U	16 U	7.7 U
Benzo(a)anthracene	0.224 or MDL	15	36	49	27	64	41	57	71	70	51	80	33	12
Chrysene	0.4	14	36	53	32	66	41	63	75	76	59	81	35	13
bis(2-Ethylhexyl)phthalate	50	78	4.1 J	4.4 J	8.7	7.5 J	2.3 J	6.6 J	7.2 J	43	4.4 J	11	78	2 J
Di-n-octylphthalate	50	3.9 U	9.5 U	9.6 U	0.87 J	8 U	7.7 U	7.9 U	9.8 U	9.2	9.7 U	19	51	3.9 U
Benzo(b)fluoranthene	0.22 or MDL	17	40	50	36	72	46	61	78	78	55	83	36	15
Benzo(k)fluoranthene	0.22 or MDL	8.2	20	23	16	27	19	27	35	31	24	37	16	6.6
Benzo(a)pyrene	0.061 or MDL	14	31	40	26	52	35	45	58	57	42	61	26	11
Indeno(1,2,3-cd)pyrene	3.2	7	12	23	11	26	18	22	27	24	23	23	11	4.8
Dibenz(a,h)anthracene	0.014 or MDL	2	3.7	6.8	3.4	7.9	6.1	6.6	6.9	8.6	6.3	8.1	3.6	1.5
Benzo(g,h,i)perylene	50	6.6	10	22	8.8	23	16	16	20	21	18	18	10	4.4
Total Confident Conc. BNAs (s)		271.3	433.7	586.8	336.9	719.7	431.1	698.3	852.9	794.7	576.3	973.1	461.6	131.8
Total Estimated Conc. BNA TICs (s)		9.7	60.9	241.4	121.5	382.8	275.5	318.6	382	429.2	108.1	432	281.4	25.4

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 5
Soil Sampling Results
Former Genral Motors Site
Tarrytown, New York
AOC-31

Sample ID	New York	AOC-31-1	AOC-31-2	AOC-31-3	AOC-31-4	AOC-31-5	AOC-31-6	AOC-31-7	AOC-31-8	AOC-31-9	AOC-31-10	AOC-31-11	AOC-31-12	AOC-31-13
Lab Sample Number	TAGM	369422	369423	369737	369738	369739	369740	369741	369742	369743	369744	369746	369747	369748
Sampling Date	Rec. Soil	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/16/02	08/16/02	08/16/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCBs														
Aroclor-1016	#	0.079 U	0.077 U	0.077 U	0.08 U	0.08 U	0.077 U	0.08 U	0.079 U	0.079 U	0.078 U	0.079 U	0.079 U	0.078 U
Aroclor-1221	#	0.079 U	0.077 U	0.077 U	0.08 U	0.08 U	0.077 U	0.08 U	0.079 U	0.079 U	0.078 U	0.079 U	0.079 U	0.078 U
Aroclor-1232	#	0.079 U	0.077 U	0.077 U	0.08 U	0.08 U	0.077 U	0.32 U	0.079 U	0.079 U	0.078 U	0.079 U	0.079 U	0.078 U
Aroclor-1242	#	0.079 U	0.49	0.2	0.3	0.33	0.082 P*	0.2	0.29	0.25	0.22	0.31	0.25	0.12
Aroclor-1248	#	0.950	0.077 U	0.077 U	0.08 U	0.08 U	0.077 U	0.08 U	0.079 U	0.079 U	0.078 U	0.079 U	0.079 U	0.078 U
Aroclor-1254	#	0.079 U	0.077 U	0.077 U	0.08 U	0.08 U	0.077 U	0.08 U	0.079 U	0.079 U	0.078 U	0.079 U	0.079 U	0.078 U
Aroclor-1260	#	0.260	0.26	0.19	0.32	0.08 U	0.077 U	0.08 U	0.079 U	0.68	0.078 U	0.5	0.079 U	0.33
Aroclor-1262	#	0.079 U	0.077 U	0.077 U	0.08 U	0.88	0.35	0.32	0.44	0.079 U	0.27	0.079 U	0.26	0.078 U
Aroclor-1268	#	0.079 U	0.077 U	0.077 U	0.08 U	0.08 U	0.077 U	0.08 U	0.079 U	0.76	0.078 U	0.079 U	0.079 U	0.078 U
PESTICIDES														
Aldrin	0.041	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
alpha-BHC	0.11	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
beta-BHC	0.2	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
delta-BHC	0.3	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
gamma-BHC(Lindane)	0.06	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Chlordane	0.54	0.079 U	0.077 U	0.077 U	0.4 U	0.16 U	0.077 U	0.16 U	0.16 U	0.4 U	0.39 U	0.079 U	0.39 U	0.078 U
4,4'-DDD	2.9	0.0079 U	0.012 P*	0.01	0.04 U	0.016 U	0.016	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
4,4'-DDE	2.1	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
4,4'-DDT	2.1	0.0079 U	0.0084 P*	0.0093 P*	0.04 U	0.016 U	0.014 P*	0.019 P*	0.026 P*	0.057	0.039 U	0.023 P*	0.039 U	0.0078 U
Dieldrin	0.044	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Endosulfan I	0.9	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Endosulfan II	0.9	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.049	0.0077 U	0.016 U	0.019 P*	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Endosulfansulfate	1.0	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Endrin	0.1	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Endrinaldehyde	N/A	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Endrinketone	N/A	0.022 P*	0.12 P*	0.049 P*	0.041 P*	0.15	0.12 P*	0.13	0.058 P*	0.14	0.096	0.058 P*	0.077	0.0078 U
Heptachlor	0.1	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Heptachlorepoxide	0.02	0.0079 U	0.017	0.0077 U	0.04 U	0.016 U	0.0077 U	0.016 U	0.016 U	0.04 U	0.039 U	0.0079 U	0.039 U	0.0078 U
Methoxychlor	Site Specific	0.0079 U	0.0077 U	0.0077 U	0.04 U	0.55	0.0077 U	0.016 U	0.016 U	0.51 P*	0.46 P	0.0079 U	0.039 U	0.078 P*
Toxaphene	N/A	0.079 U	0.077 U	0.077 U	0.4 U	0.16 U	0.077 U	0.16 U	0.16 U	0.4 U	0.39 U	0.079 U	0.39 U	0.078 U
WET CHEMISTRY														
ChromiumVI - mg/kg	Site Specific	2.0 U	2.0 U	2.0 U	7.2	2.4	3.1	2.0 U	5.2	2.6	2.0 U	2.0 U	2.0 U	2.0 U
TotalCyanide - mg/kg	Site Specific	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

P = For duel column analysis the % difference between the quantatated concentrations on the 2 columns is greater than 40%
* = For duel column analysis, the lowest quantitates concentration is being reported due to coeluting interference.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 5
Soil Sampling Results
Former Genral Motors Site
Tarrytown, New York
AOC-31

Sample ID	Eastern USA	New York	AOC-31-1	AOC-31-2	AOC-31-3	AOC-31-4	AOC-31-5	AOC-31-6	AOC-31-7	AOC-31-8	AOC-31-9	AOC-31-10	AOC-31-11	AOC-31-12	AOC-31-13
Lab Sample Number	Background (ppm)	TAGM	369422	369423	369737	369738	369739	369740	369741	369742	369743	369744	369745	369747	369748
Sampling Date		Rec. Soil	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/16/02	08/16/02	08/16/02
Matrix		Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
METALS															
Aluminum	33,000	SB	6350	7490	7420	6970	8500	7000	7180	6770	7480	6550	7310	6690	6210
Antimony	N/A	SB	2.0 B	3.8	3.6	4.9	5.9	3.2	5.6	3.0	4.4	4.1	11.5	3.4	13.2
Arsenic	3 - 12	7.5 or SB	4.1	6.0	4.4	6.1	4.8	5.8	6.9	7.3	5.2	5.5	6.3	6.0	4.6
Barium	15 - 600	300 or SB	96.2	159	148	195	282	365	507	437	448	307	1220	275	251
Beryllium	0 - 1.75	0.16 or SB	0.27 B	0.42 B	0.36 B	0.47	0.32 B	0.31 B	0.38 B	0.40	0.35 B	0.34 B	0.36 B	0.29 B	0.36 B
Cadmium	0.1 - 1	1 or SB	0.48 B	1.1	1.1 B	2.3	7.6	1.3	2.1	2.0	2.6	2.0	2.6	1.5	2.2
Calcium	130 - 35000	SB	126300	112400	99100	102000	75500	100000	91300	65200	86100	90400	88400	92700	89100
Chromium	1.5 - 40	10 or SB	15.3	28.3	26.0	43.9	27.5	32.3	33.0	25.9	31.8	29.7	67.7	22.4	30.8
Cobalt	2.6 - 60	30 or SB	3.8 B	4.6 B	5.4 B	7.6 B	5.8 B	6.1 B	6.1 B	5.4 B	5.9 B	6.0 B	6.8 B	4.9 B	4.5 B
Copper	1 - 50	25 or SB	22.7	37.0	32.8	62.4	51.9	54.0	52.7	58.7	47.0	37.3	75.6	33.9	36.5
Iron	2000 - 550000	2000 or SB	12200	16200	13800	30200	14100	18100	18500	16000	16500	13600	30000	15400	16600
Lead	200 - 500	SB	99.2	184	168	543	244	185	266	226	279	228	357	263	234
Magnesium	100 - 5000	SB	34600	23700	14100	25400	11100	23600	9710	8010	11900	16400	13900	10500	13000
Manganese	50 - 5000	SB	309	349	265	436	255	696	397	447	322	269	365	238	336
Mercury	0.001 - 0.2	0.1	0.08	0.03	0.019 U	0.020 U	0.43	0.42	0.04 B	0.38	0.05	0.22	0.31	0.28	0.21
Nickel	0.5 - 25	13 or SB	10.2	14.9	16.1	28.1	28.7	21.2	22.2	18.7	23.8	25.0	19.7	17.9	15.6
Potassium	8500 - 43000	SB	1400	1520	1440	1470	1240	1450	1430	1160	1190	1240	746 B	696 B	894 B
Selenium	0.1 - 3.9	2 or SB	0.99 U	0.96 U	0.97 U	1.0 U	1.0 U	0.97 U	1.0 U	0.83 U	0.99 U	1.0 B	1.00 U	0.99 U	0.97 U
Silver	N/A	SB	0.33 U	0.32 U	0.32 U	0.42 B	0.34 U	0.32 U	0.33 U	0.30 B	0.34 B	0.35 B	0.39 B	0.40 B	0.32 U
Sodium	6000 - 8000	SB	1130 B	1410	1250	1490	1310	1130	1170	881 B	1090 B	907 B	593 B	478 B	533 B
Thallium	N/A	SB	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.93 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Vanadium	1 - 300	150 or SB	16.9	20.5	21.7	24.1	72.8	38.9	41.5	34.5	52.9	86.6	35.6	35.1	18.2
Zinc	9 - 50	20 or SB	148	392	349	693	1460	510	750	628	773	574	941	551	495

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 6
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC- 34,35,36

Sample ID	New York	AOC-34-1-6	AOC-34-1-10	AOC-34-2-6	AOC-34-3-6	AOC-34-4-5	AOC-35-1-1	AOC-35-1-5	AOC-35-2-7	AOC-36-1-5	AOC-36-2-5	Duplicate-1
Lab Sample Number	TAGM	367531	367532	367533	367540	367539	367541	367542	367543	367544	367545	367546
Sampling Date	Rec. Soil	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02	08/06/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
VOLATILE COMPOUNDS (GC/MS)												
Chloromethane	**NA**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Bromomethane	**NA**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
VinylChloride	**0.2**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Chloroethane	**1.9**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
MethyleneChloride	**0.1**	0.0012 J	0.0016 J	0.0014 J	0.0036 U	0.0018 J	0.0025 J	0.0011 J	0.0053	NR	NR	NR
Acetone	**0.2**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.056	0.0058 U	0.0065 U	0.031	NR	NR	NR
CarbonDisulfide	**2.7**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0028 J	0.0058 U	0.0065 U	0.0063	NR	NR	NR
1,1-Dichloroethene	**0.4**	0.0022 U	0.0025 U	0.0025 U	0.0024 U	0.0022 U	0.0023 U	0.0026 U	0.0025 U	NR	NR	NR
1,1-Dichloroethane	**0.2**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
trans-1,2-Dichloroethene	**0.3**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
cis-1,2-Dichloroethene	**NA**	0.0055 U	0.0012 J	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Chloroform	**0.3**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
1,2-Dichloroethane	**0.1**	0.0022 U	0.0025 U	0.0025 U	0.0024 U	0.0022 U	0.0023 U	0.0026 U	0.0025 U	NR	NR	NR
2-Butanone	**0.3**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
1,1,1-Trichloroethane	**0.8**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
CarbonTetrachloride	**0.6**	0.0022 U	0.0025 U	0.0025 U	0.0024 U	0.0022 U	0.0023 U	0.0026 U	0.0025 U	NR	NR	NR
Bromodichloromethane	**NA**	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	NR	NR	NR
1,2-Dichloropropane	**NA**	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	NR	NR	NR
cis-1,3-Dichloropropene	**NA**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Trichloroethene	**0.7**	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	NR	NR	NR
Dibromochloromethane	**NA**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
1,1,2-Trichloroethane	**NA**	0.0033 U	0.0037 U	0.0037 U	0.0036 U	0.0034 U	0.0035 U	0.0039 U	0.0037 U	NR	NR	NR
Benzene	**0.06**	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	NR	NR	NR
trans-1,3-Dichloropropene	**NA**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Bromoform	**NA**	0.0043 J	0.0039 J	0.0055	0.0078	0.0072	0.0070	0.020	0.0016 J	NR	NR	NR
4-Methyl-2-Pentanone	**1**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
2-Hexanone	**NA**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Tetrachloroethene	**1.4**	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	NR	NR	NR
1,1,2,2-Tetrachloroethane	**0.6**	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0013 U	0.0012 U	NR	NR	NR
Toluene	**1.5**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Chlorobenzene	**1.7**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Ethylbenzene	**5.5**	0.0044 U	0.0050 U	0.0049 U	0.0048 U	0.0045 U	0.0046 U	0.0052 U	0.0050 U	NR	NR	NR
Styrene	**NA**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Xylene(Total)	**1.2**	0.0055 U	0.0062 U	0.0062 U	0.0060 U	0.0056 U	0.0058 U	0.0065 U	0.0062 U	NR	NR	NR
Total Confident Conc. VOAs (s)		0	0	0.0	0.0	0.1	0.0	0.0	0.0			
Total Estimated Conc. VOA TICs (s)		0	0.0	0	0	0.0	0	0	0.4			

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 6
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC- 34,35,36

Sample ID	New York	AOC-34-1-6	AOC-34-1-10	AOC-34-2-6	AOC-34-3-6	AOC-34-4-5	AOC-35-1-1	AOC-35-1-5	AOC-35-2-7	AOC-36-1-5	AOC-36-2-5	Duplicate-1
Lab Sample Number	TAGM	367531	367532	367533	367540	367539	367541	367542	367543	367544	367545	367546
Sampling Date	Rec. Soil	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02	08/06/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
Dilution Factor		1.0	1.0	1.0	1.0	50.0	1.0	1.0	1.0	10.0	1.0	1.0
SEMIVOLATILE COMPOUNDS (GC/MS)												77
Phenol	**0.030 or MDL**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2-Chlorophenol	**0.8**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2-Methylphenol	**0.100 or MDL**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.010 J	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
4-Methylphenol	**0.9**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.021 J	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2-Nitrophenol	**0.330 or MDL**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2,4-Dimethylphenol	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2,4-Dichlorophenol	**0.4**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
4-Chloro-3-methylphenol	**0.240 or MDL**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2,4,6-Trichlorophenol	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2,4,5-Trichlorophenol	**0.1**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2,4-Dinitrophenol	**0.200 or MDL**	1.6 U	1.7 U	1.6 U	1.6 U	75 U	1.6 U	1.8 U	1.7 U	17 U	1.7 U	1.7 U
4-Nitrophenol	**0.100 or MDL**	1.6 U	1.7 U	1.6 U	1.6 U	75 U	1.6 U	1.8 U	1.7 U	17 U	1.7 U	1.7 U
4,6-Dinitro-2-methylphenol	**NA**	1.6 U	1.7 U	1.6 U	1.6 U	75 U	1.6 U	1.8 U	1.7 U	17 U	1.7 U	1.7 U
Pentachlorophenol	**1 or MDL**	1.6 U	1.7 U	1.6 U	1.6 U	75 U	1.6 U	1.8 U	1.7 U	17 U	1.7 U	1.7 U
bis(2-Chloroethyl)ether	**NA**	0.041 U	0.042 U	0.041 U	0.040 U	1.9 U	0.039 U	0.044 U	0.042 U	0.42 U	0.044 U	0.043 U
1,3-Dichlorobenzene	**1.6**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
1,4-Dichlorobenzene	**8.5**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
1,2-Dichlorobenzene	**7.9**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
bis(2-chloroisopropyl)ether	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
N-Nitroso-di-n-propylamine	**NA**	0.041 U	0.042 U	0.041 U	0.040 U	1.9 U	0.039 U	0.044 U	0.042 U	0.42 U	0.044 U	0.043 U
Hexachloroethane	**NA**	0.041 U	0.042 U	0.041 U	0.040 U	1.9 U	0.039 U	0.044 U	0.042 U	0.42 U	0.044 U	0.043 U
Nitrobenzene	**0.200 or MDL**	0.041 U	0.042 U	0.041 U	0.040 U	1.9 U	0.039 U	0.044 U	0.042 U	0.42 U	0.044 U	0.043 U
Isophorone	**4.4**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
bis(2-Chloroethoxy)methane	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
1,2,4-Trichlorobenzene	**3.4**	0.041 U	0.042 U	0.041 U	0.040 U	1.9 U	0.039 U	0.044 U	0.042 U	0.42 U	0.044 U	0.043 U
Naphthalene	**13**	0.41 U	0.42 U	0.41 U	0.40 U	7.9 J	0.32 J	0.44 U	0.15 J	7.3	0.44 U	0.43 U
4-Chloroaniline	**0.220 or MDL**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
Hexachlorobutadiene	**NA**	0.083 U	0.084 U	0.082 U	0.080 U	3.8 U	0.078 U	0.088 U	0.084 U	0.84 U	0.087 U	0.086 U
2-Methylnaphthalene	**36.400**	0.41 U	0.42 U	0.41 U	0.40 U	5.2 J	0.44	0.44 U	0.10 J	6.8	0.44 U	0.43 U

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 6
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC- 34,35,36

Sample ID	New York	AOC-34-1-6	AOC-34-1-10	AOC-34-2-6	AOC-34-3-6	AOC-34-4-5	AOC-35-1-1	AOC-35-1-5	AOC-35-2-7	AOC-36-1-5	AOC-36-2-5	Duplicate-1
Lab Sample Number	TAGM	367531	367532	367533	367540	367539	367541	367542	367543	367544	367545	367546
Sampling Date	Rec. Soil	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02	08/06/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
Dilution Factor		1.0	1.0	1.0	1.0	50.0	1.0	1.0	1.0			
Hexachlorocyclopentadiene	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2-Chloronaphthalene	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
2-Nitroaniline	**0.430 or MDL**	0.83 U	0.84 U	0.82 U	0.80 U	38 U	0.78 U	0.88 U	0.84 U	8.4 U	0.87 U	0.86 U
Dimethylphthalate	**2.0**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
Acenaphthylene	**50**	0.41 U	0.42 U	0.41 U	0.40 U	10 J	0.35 J	0.44 U	0.078 J	7.3	0.44 U	0.43 U
2,6-Dinitrotoluene	**1.0**	0.083 U	0.084 U	0.082 U	0.080 U	3.8 U	0.078 U	0.088 U	0.084 U	0.84 U	0.087 U	0.086 U
3-Nitroaniline	**.500 or MDL**	0.83 U	0.84 U	0.82 U	0.80 U	38 U	0.78 U	0.88 U	0.84 U	8.4 U	0.87 U	0.86 U
Acenaphthene	**50**	0.41 U	0.42 U	0.41 U	0.40 U	20	0.078 J	0.44 U	0.064 J	3.8 J	0.44 U	0.43 U
Dibenzofuran	**6.2**	0.41 U	0.42 U	0.41 U	0.40 U	12 J	0.16 J	0.44 U	0.088 J	5.9	0.44 U	0.43 U
2,4-Dinitrotoluene	**NA**	0.083 U	0.084 U	0.082 U	0.080 U	3.8 U	0.078 U	0.088 U	0.084 U	0.84 U	0.087 U	0.086 U
Diethylphthalate	**7.1**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
4-Chlorophenyl-phenylether	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
Fluorene	**50**	0.41 U	0.42 U	0.41 U	0.40 U	21	0.12 J	0.44 U	0.074 J	16	0.44 U	0.43 U
4-Nitroanilne	**NA**	0.83 U	0.84 U	0.82 U	0.80 U	38 U	0.78 U	0.88 U	0.84 U	8.4 U	0.87 U	0.86 U
N-Nitrosodiphenylamine	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
4-Bromophenyl-phenylether	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
Hexachlorobenzene	**0.410**	0.041 U	0.042 U	0.041 U	0.040 U	1.9 U	0.039 U	0.044 U	0.042 U	0.42 U	0.044 U	0.043 U
Phenanthrene	**50**	0.41 U	0.42 U	0.41 U	0.40 U	250	0.96	0.44 U	0.38 J	68	0.044 J	0.43 U
Anthracene	**50**	0.41 U	0.42 U	0.41 U	0.40 U	58	0.32 J	0.44 U	0.099 J	15	0.44 U	0.43 U
Carbazole	**NA**	0.41 U	0.42 U	0.41 U	0.40 U	17 J	0.049 J	0.44 U	0.043 J	4.1 J	0.44 U	0.43 U
Di-n-butylphthalate	**8.1**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
Fluoranthene	**50**	0.41 U	0.42 U	0.41 U	0.40 U	260	0.74	0.44 U	0.37 J	35	0.024 J	0.43 U
Pyrene	**50**	0.41 U	0.42 U	0.41 U	0.40 U	310	1.2	0.44 U	0.43	41	0.024 J	0.43 U
Butylbenzylphthalate	**50**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
3,3'-Dichlorobenzidine	**NA**	0.83 U	0.84 U	0.82 U	0.80 U	38 U	0.78 U	0.88 U	0.84 U	8.4 U	0.87 U	0.86 U
Benzo(a)anthracene	**0.224 or MDL**	0.041 U	0.042 U	0.041 U	0.040 U	160	0.57	0.044 U	0.18	15	0.044 U	0.043 U
Chrysene	**0.4**	0.41 U	0.42 U	0.41 U	0.40 U	160	0.92	0.44 U	0.25 J	15	0.44 U	0.43 U
bis(2-Ethylhexyl)phthalate	**50**	0.41 U	0.14 J	0.41 U	0.40 U	19 U	0.39 U	0.10 J	0.42 U	4.2 U	0.44 U	0.18 J
Di-n-octylphthalate	**50**	0.41 U	0.42 U	0.41 U	0.40 U	19 U	0.39 U	0.44 U	0.42 U	4.2 U	0.44 U	0.43 U
Benzo(b)fluoranthene	**0.22 or MDL**	0.041 U	0.042 U	0.041 U	0.040 U	160	0.83	0.044 U	0.20	12	0.044 U	0.043 U
Benzo(k)fluoranthene	**0.22 or MDL**	0.041 U	0.042 U	0.041 U	0.040 U	74	0.36	0.044 U	0.081	4.8	0.044 U	0.043 U
Benzo(a)pyrene	**0.061 or MDL**	0.041 U	0.042 U	0.041 U	0.040 U	130	0.45	0.044 U	0.12	11	0.044 U	0.043 U
Indeno(1,2,3-cd)pyrene	**3.2**	0.041 U	0.042 U	0.041 U	0.040 U	84	0.48	0.044 U	0.11	6.4	0.044 U	0.043 U
Dibenz(a,h)anthracene	**0.014 or MDL**	0.041 U	0.042 U	0.041 U	0.040 U	21	0.15	0.044 U	0.038 J	1.9	0.044 U	0.043 U
Benzo(g,h,i)perylene	50	0.41 U	0.42 U	0.41 U	0.40 U	85	0.48	0.44 U	0.12 J	7.0	0.44 U	0.43 U
Total Confident Conc. BNAs (s)		0	0	0	0	1793	7.5	0	1.1	275	0	0
Total Estimated Conc. BNA TICs (s)		0	0	0	0	335	12	0	4.6	107	0.8	0

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 6
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC- 34,35,36

Sample ID	New York	AOC-34-1-6	AOC-34-1-10	AOC-34-2-6	AOC-34-3-6	AOC-34-4-5	AOC-35-1-1	AOC-35-1-5	AOC-35-2-7	AOC-36-1-5	AOC-36-2-5	Duplicate-1
Lab Sample Number	TAGM	367531	367532	367533	367540	367539	367541	367542	367543	367544	367545	367546
Sampling Date	Rec. Soil	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02	08/06/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
Dilution Factor							1.0	1.0	1.0			
PCBs												
Aroclor-1016	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1221	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1232	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1242	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1248	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1254	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1260	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1262	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
Aroclor-1268	#	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
PESTICIDES												
Aldrin	**0.041**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
alpha-BHC	**0.11**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
beta-BHC	**0.2**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
delta-BHC	**0.3**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
gamma-BHC(Lindane)	**0.06**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Chlordane	**0.54**	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
4,4'-DDD	**2.9**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
4,4'-DDE	**2.1**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
4,4'-DDT	**2.1**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Dieldrin	**0.044**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Endosulfanl	**0.9**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Endosulfanli	**0.9**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Endosulfansulfate	**1.0**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Endrin	**0.1**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Endrinaldehyde	**N/A**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Endrinketone	**N/A**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Heptachlor	**0.1**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Heptachlorepoxide	**0.02**	NR	NR	NR	NR	NR	0.0079 U	0.0088 U	0.0085 U	NR	NR	NR
Methoxychlor	**Site Specific**	NR	NR	NR	NR	NR	0.014	0.0088 U	0.0085 U	NR	NR	NR
Toxaphene	**N/A**	NR	NR	NR	NR	NR	0.079 U	0.088 U	0.085 U	NR	NR	NR
WET CHEMISTRY												
TotalCyanide - mg/kg	Site Specific	NR	NR	NR	NR	NR	0.5 U	0.5 U	0.5 U	NR	NR	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 6
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC- 34,35,36

Sample ID	Eastern USA	New York	AOC-34-1-6		AOC-34-1-10		AOC-34-2-6		AOC-34-3-6		AOC-34-4-5		AOC-35-1-1		AOC-35-1-5		AOC-35-2-7		AOC-38-1-5		AOC-38-2-5		Duplicate-1	
Lab Sample Number	Background (ppm)	TAGM	367531		367532		367533		367540		367539		367541		367542		367543		367544		367545		367546	
Sampling Date		Rec. Soil	08/05/02		08/05/02		08/05/02		08/05/02		08/05/02		08/05/02		08/05/02		08/05/02		08/06/02		08/06/02		08/06/02	
Matrix		Cleanup Objective	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Units		Criteria (mg/kg)	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg							
Dilution Factor			1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0							
METALS																								
Aluminum	33,000	SB	8280		3270		7290		6240		6230		6210		16700		10300		11200		9970		9060	
Antimony	N/A	SB	0.97	U	0.89	U	0.96	U	0.93	U	0.80	U	0.92	U	0.93	U	0.99	U	0.99	U	1.0	U	1.0	U
Arsenic	3 - 12	7.5 or SB	1.9		0.77	U	1.6		1.4		5.8		4.8		5.1		4.6		3.4		1.7		1.8	
Barium	15 - 600	300 or SB	63.5		25.1	B	52.0		46.9	B	629		82.7		126		100		99.5		91.1		84.5	
Beryllium	0 - 1.75	0.16 or SB	0.22	B	0.28	B	0.20	B	0.21	B	0.29	B	0.32	B	0.72		0.33	B	0.42	B	0.30	B	0.26	B
Cadmium	0.1 - 1	1 or SB	0.099	U	0.091	U	0.099	U	0.096	U	0.56	B	0.15	B	0.096	U	0.10	U	0.10	U	0.10	U	0.10	U
Calcium	130 - 35000	SB	6150		18700		10600		5400		25200		8810		17900		12100		15800		16600		16000	
Chromium	1.5 - 40	10 or SB	17.3		8.9		16.2		12.5		23.3		13.3		29.4		20.7		28.1		21.0		19.7	
Cobalt	2.6 - 60	30 or SB	7.5	B	4.0	B	6.8	B	5.4	B	5.4	B	5.7	B	13.7		10.1	B	10.4	B	8.3	B	7.8	B
Copper	1 - 50	25 or SB	16.0		10.5		18.3		13.5		79.3		34.5		30.4		27.8		26.2		20.8		19.4	
Iron	2000 - 550000	2000 or SB	17000		8480		16400		13200		22500		16300		33200		41000		25200		20300		18700	
Lead	200 - 500	SB	3.7		4.0		3.5		4.8		528		68.9		11.9		11.3		14.7		4.7		3.9	
Magnesium	100 - 5000	SB	6010		6620		6160		4770		5980		5840		12700		9590		11700		11100		11000	
Manganese	50 - 5000	SB	275		180		242		230		249		207		479		334		298		300		280	
Mercury	0.001 - 0.2	0.1	0.021	U	0.021	U	0.018	U	0.020	U	0.24		0.08		0.019	U	0.021	U	0.021	U	0.022	U	0.022	U
Nickel	0.5 - 25	13 or SB	14.9		11.3		13.5		11.3		15.6		15.1		30.8		22.5		21.5		17.0		15.7	
Potassium	8500 - 43000	SB	2870		948	B	2440		1680		1590		1910		3320		3560		3460		3580		3440	
Selenium	0.1 - 3.9	2 or SB	0.97	U	0.89	U	0.96	U	0.93	U	0.80	U	0.92	U	0.93	U	0.99	U	0.99	U	1.0	U	1.0	U
Silver	N/A	SB	0.17	U	0.16	U	0.17	U	0.17	U	0.14	U	0.16	U	0.17	U	0.18	U	0.18	U	0.18	U	0.18	U
Sodium	6000 - 8000	SB	720	B	1150	B	175	B	125	B	284	B	183	B	189	B	198	B	219	B	158	B	164	B
Thallium	N/A	SB	1.1	U	1.0	U	1.1	U	1.1	U	0.90	U	1.0	U	1.1	U	1.1	U	1.1	U	1.2	U	1.1	U
Vanadium	1 - 300	150 or SB	23.7		11.3	B	23.0		17.2		19.9		20.8		34.0		32.4		31.2		29.0		27.7	
Zinc	9 - 50	20 or SB	38.4		15.7		34.1		27.4		715		103		74.2		52.8		56.5		45.3		42.3	

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 7
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 37,38,39

Sample ID	New York TAGM	AOC-37-1-8	AOC-37-1-10	AOC-37-2-5	AOC-38-1-4	AOC-38-1-5	AOC-39-1-8	AOC-39-2-8
Lab Sample Number	Rec. Soil	367534	367535	367538	367536	367537	367550	367939
Sampling Date	Cleanup Objective	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	50.0	1.0	1.0	1.0	50.0	1.0
VOLATILE COMPOUNDS (GC/MS)								
Chloromethane	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
Bromomethane	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
VinylChloride	**0.2**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
Chloroethane	**1.9**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
MethyleneChloride	**0.1**	0.0008 J	0.34 U	0.0011 J	0.0034 U	0.0013 J	0.34 U	0.0012 J
Acetone	**0.2**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.093
CarbonDisulfide	**2.7**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0034 J
1,1-Dichloroethene	**0.4**	0.0022 U	0.22 U	0.0023 U	0.0023 U	0.0024 U	0.23 U	0.0023 U
1,1-Dichloroethane	**0.2**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
trans-1,2-Dichloroethene	**0.3**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
cis-1,2-Dichloroethene	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0013 J	0.57 U	0.0057 U
Chloroform	**0.3**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
1,2-Dichloroethane	**0.1**	0.0022 U	0.22 U	0.0023 U	0.0023 U	0.0024 U	0.23 U	0.0023 U
2-Butanone	**0.3**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.022
1,1,1-Trichloroethane	**0.8**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0004 J
CarbonTetrachloride	**0.6**	0.0022 U	0.22 U	0.0023 U	0.0023 U	0.0024 U	0.23 U	0.0023 U
Bromodichloromethane	**NA**	0.0011 U	0.11 U	0.0011 U	0.0012 U	0.0012 U	0.11 U	0.0011 U
1,2-Dichloropropane	**NA**	0.0011 U	0.11 U	0.0011 U	0.0012 U	0.0012 U	0.11 U	0.0011 U
cis-1,3-Dichloropropene	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
Trichloroethene	**0.7**	0.0011 U	0.11 U	0.0011 U	0.0012 U	0.0012 U	0.11 U	0.0011 U
Dibromochloromethane	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0025 J	0.57 U	0.0005 J
1,1,2-Trichloroethane	**NA**	0.0034 U	0.34 U	0.0034 U	0.0034 U	0.0036 U	0.34 U	0.0034 U
Benzene	**0.06**	0.0011 U	0.11 U	0.0011 U	0.0012 U	0.0012 U	0.11 U	0.0011 U
trans-1,3-Dichloropropene	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
Bromoform	**NA**	0.0079	0.45 U	0.013	0.0031 J	0.078	0.46 U	0.0046
4-Methyl-2-Pentanone	**1**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
2-Hexanone	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0095
Tetrachloroethene	**1.4**	0.0011 U	0.11 U	0.0011 U	0.0012 U	0.0012 U	0.11 U	0.0011 U
1,1,2,2-Tetrachloroethane	**0.6**	0.0011 U	0.11 U	0.0011 U	0.0012 U	0.0012 U	0.11 U	0.0011 U
Toluene	**1.5**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
Chlorobenzene	**1.7**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
Ethylbenzene	**5.5**	0.0045 U	0.45 U	0.0046 U	0.0046 U	0.0049 U	0.46 U	0.0005 J
Styrene	**NA**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0057 U
Xylene(Total)	**1.2**	0.0056 U	0.56 U	0.0057 U	0.0058 U	0.0061 U	0.57 U	0.0035 J
Total Confident Conc. VOAs (s)		0.0	0	0.0	0	0.1	0	0.129
Total Estimated Conc. VOA TICs (s)		0	68	0	0	0	48	0.377

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 7
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 37,38,39

Sample ID	New York TAGM	AOC-37-1-8	AOC-37-1-10	AOC-37-2-5	AOC-38-1-4	AOC-38-1-5	AOC-39-1-8	AOC-39-2-8
Lab Sample Number	Rec. Soil	367534	367535	367538	367536	367537	367550	367939
Sampling Date	Cleanup Objective	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	50.0	1.0			5.0	777.0
SEMIVOLATILE COMPOUNDS (GC/MS)								
Phenol	**0.030 or MDL**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2-Chlorophenol	**0.8**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2-Methylphenol	**0.100 or MDL**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
4-Methylphenol	**0.9**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2-Nitrophenol	**0.330 or MDL**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2,4-Dimethylphenol	**NA**	0.39 U	1.9 U	0.40 U	NR	NR	0.73 J	NR
2,4-Dichlorophenol	**0.4**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
4-Chloro-3-methylphenol	**0.240 or MDL**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2,4,6-Trichlorophenol	**NA**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2,4,5-Trichlorophenol	**0.1**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2,4-Dinitrophenol	**0.200 or MDL**	1.6 U	7.6 U	1.6 U	NR	NR	7.8 U	NR
4-Nitrophenol	**0.100 or MDL**	1.6 U	7.6 U	1.6 U	NR	NR	7.8 U	NR
4,6-Dinitro-2-methylphenol	**NA**	1.6 U	7.6 U	1.6 U	NR	NR	7.8 U	NR
Pentachlorophenol	**1 or MDL**	1.6 U	7.6 U	1.6 U	NR	NR	7.8 U	NR
bis(2-Chloroethyl)ether	**NA**	0.039 U	0.19 U	0.040 U	NR	NR	0.19 U	NR
1,3-Dichlorobenzene	**1.6**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
1,4-Dichlorobenzene	**8.5**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
1,2-Dichlorobenzene	**7.9**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
bis(2-chloroisopropyl)ether	**NA**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
N-Nitroso-di-n-propylamine	**NA**	0.039 U	0.19 U	0.040 U	NR	NR	0.19 U	NR
Hexachloroethane	**NA**	0.039 U	0.19 U	0.040 U	NR	NR	0.19 U	NR
Nitrobenzene	**0.200 or MDL**	0.039 U	0.19 U	0.040 U	NR	NR	0.19 U	NR
Isophorone	**4.4**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
bis(2-Chloroethoxy)methane	**NA**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
1,2,4-Trichlorobenzene	**3.4**	0.039 U	0.19 U	0.040 U	NR	NR	0.19 U	NR
Naphthalene	**13**	0.051 J	0.039 J	0.40 U	NR	NR	0.55 J	NR
4-Chloroaniline	**0.220 or MDL**	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
Hexachlorobutadiene	**NA**	0.078 U	0.38 U	0.081 U	NR	NR	0.39 U	NR
2-Methylnaphthalene	**36.400**	0.020 J	1.9 U	0.40 U	NR	NR	0.28 J	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 7
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 37,38,39

Sample ID	New York TAGM	AOC-37-1-8	AOC-37-1-10	AOC-37-2-5	AOC-38-1-4	AOC-38-1-5	AOC-39-1-8	AOC-39-2-8
Lab Sample Number	Rec. Soil	367534	367535	367538	367536	367537	367550	367939
Sampling Date	Cleanup Objective	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	50.0	1.0			5.0	
Hexachlorocyclopentadiene	NA	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2-Chloronaphthalene	NA	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
2-Nitroaniline	0.430 or MDL	0.78 U	3.8 U	0.81 U	NR	NR	3.9 U	NR
Dimethylphthalate	2.0	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
Acenaphthylene	50	0.093 J	1.9 U	0.40 U	NR	NR	2.5	NR
2,6-Dinitrotoluene	1.0	0.078 U	0.38 U	0.081 U	NR	NR	0.39 U	NR
3-Nitroaniline	.500 or MDL	0.78 U	3.8 U	0.81 U	NR	NR	3.9 U	NR
Acenaphthene	50	0.39 U	1.9 U	0.40 U	NR	NR	1.2 J	NR
Dibenzofuran	6.2	0.018 J	1.9 U	0.40 U	NR	NR	0.28 J	NR
2,4-Dinitrotoluene	NA	0.078 U	0.38 U	0.081 U	NR	NR	0.39 U	NR
Diethylphthalate	7.1	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
4-Chlorophenyl-phenylether	NA	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
Fluorene	50	0.39 U	1.9 U	0.40 U	NR	NR	1.2 J	NR
4-Nitroaniline	NA	0.78 U	3.8 U	0.81 U	NR	NR	3.9 U	NR
N-Nitrosodiphenylamine	NA	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
4-Bromophenyl-phenylether	NA	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
Hexachlorobenzene	0.410	0.039 U	0.19 U	0.040 U	NR	NR	0.19 U	NR
Phenanthrene	50	0.086 J	1.9 U	0.40 U	NR	NR	2.8	NR
Anthracene	50	0.034 J	0.13 J	0.40 U	NR	NR	3.6	NR
Carbazole	NA	0.0086 J	1.9 U	0.40 U	NR	NR	0.22 J	NR
Di-n-butylphthalate	8.1	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
Fluoranthene	50	0.23 J	0.52 J	0.40 U	NR	NR	20	NR
Pyrene	50	0.25 J	0.62 J	0.40 U	NR	NR	23	NR
Butylbenzylphthalate	50	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
3,3'-Dichlorobenzidine	NA	0.78 U	3.8 U	0.81 U	NR	NR	3.9 U	NR
Benzo(a)anthracene	0.224 or MDL	0.16	0.38	0.040 U	NR	NR	10	NR
Chrysene	0.4	0.17 J	0.36 J	0.40 U	NR	NR	10	NR
bis(2-Ethylhexyl)phthalate	50	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
Di-n-octylphthalate	50	0.39 U	1.9 U	0.40 U	NR	NR	1.9 U	NR
Benzo(b)fluoranthene	0.22 or MDL	0.26	0.24	0.040 U	NR	NR	9.8	NR
Benzo(k)fluoranthene	0.22 or MDL	0.12	0.11 J	0.040 U	NR	NR	4.2	NR
Benzo(a)pyrene	0.061 or MDL	0.20	0.17 J	0.040 U	NR	NR	8.3	NR
Indeno(1,2,3-cd)pyrene	3.2	0.16	0.084 J	0.040 U	NR	NR	4.3	NR
Dibenz(a,h)anthracene	0.014 or MDL	0.054	0.19 U	0.040 U	NR	NR	1.4	NR
Benzo(g,h,i)perylene	50	0.19 J	0.12 J	0.40 U	NR	NR	4.6	NR
Total Confident Conc. BNAs (s)		0.9	0.6	0			104	
Total Estimated Conc. BNA TICs (s)		0	60	0			127	

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 7
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 37,38,39

Sample ID	New York TAGM	AOC-37-1-8	AOC-37-1-10	AOC-37-2-5	AOC-38-1-4	AOC-38-1-5	AOC-39-1-8	AOC-39-2-8
Lab Sample Number	Rec. Soil	367534	367535	367538	367536	367537	367550	367939
Sampling Date	Cleanup Objective	08/05/02	08/05/02	08/05/02	08/05/02	08/05/02	08/06/02	08/06/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	50.0	1.0		1.0	1.0	1.0
PCBs								
Aroclor-1016	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1221	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1232	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1242	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1248	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1254	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1260	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1262	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
Aroclor-1268	#	0.078 U	0.076 U	0.081 U	NR	NR	0.078 U	NR
PESTICIDES								
Aldrin	**0.041**	NR	NR	NR	NR	NR	0.0078 U	NR
alpha-BHC	**0.11**	NR	NR	NR	NR	NR	0.0078 U	NR
beta-BHC	**0.2**	NR	NR	NR	NR	NR	0.0078 U	NR
delta-BHC	**0.3**	NR	NR	NR	NR	NR	0.0078 U	NR
gamma-BHC(Lindane)	**0.06**	NR	NR	NR	NR	NR	0.0078 U	NR
Chlordane	**0.54**	NR	NR	NR	NR	NR	0.078 U	NR
4,4'-DDD	**2.9**	NR	NR	NR	NR	NR	0.0078 U	NR
4,4'-DDE	**2.1**	NR	NR	NR	NR	NR	0.0078 U	NR
4,4'-DDT	**2.1**	NR	NR	NR	NR	NR	0.0078 U	NR
Dieldrin	**0.044**	NR	NR	NR	NR	NR	0.0078 U	NR
EndosulfanI	**0.9**	NR	NR	NR	NR	NR	0.0078 U	NR
EndosulfanII	**0.9**	NR	NR	NR	NR	NR	0.0078 U	NR
Endosulfansulfate	**1.0**	NR	NR	NR	NR	NR	0.0078 U	NR
Endrin	**0.1**	NR	NR	NR	NR	NR	0.0078 U	NR
Endrinaldehyde	**N/A**	NR	NR	NR	NR	NR	0.0078 U	NR
Endrinketone	**N/A**	NR	NR	NR	NR	NR	0.0078 U	NR
Heptachlor	**0.1**	NR	NR	NR	NR	NR	0.0078 U	NR
Heptachlorepoxide	**0.02**	NR	NR	NR	NR	NR	0.0078 U	NR
Methoxychlor	**Site Specific**	NR	NR	NR	NR	NR	0.0078 U	NR
Toxaphene	**N/A**	NR	NR	NR	NR	NR	0.078 U	NR
WET CHEMISTRY								
TotalCyanide - mg/kg	Site Specific	NR	NR	NR	NR	NR	0.5 U	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 7
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 37,38,39

Sample ID	Eastern USA	New York TAGM	AOC-37-1-8		AOC-37-1-10		AOC-37-2-5		AOC-38-1-4		AOC-38-1-5		AOC-39-1-8		AOC-39-2-8	
Lab Sample Number	Background (ppm)	Rec. Soil	367534		367535		367538		367536		367537		367550		367939	
Sampling Date		Cleanup Objective	08/05/02		08/05/02		08/05/02		08/05/02		08/05/02		08/06/02		08/06/02	
Matrix		Criteria (mg/kg)	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			1.0		50.0		1.0		1.0		1.0		50.0		1.0	
METALS																
Aluminum	**33,000**	**SB**	8190		2140		5760		NR		NR		5190		11700	
Antimony	**N/A**	**SB**	0.83	U	0.81	U	0.86	U	NR		NR		3.4		4.2	
Arsenic	**3 - 12**	**7.5 or SB**	3.5		0.70	U	1.3		NR		NR		6.4		3.9	
Barium	**15 - 600**	**300 or SB**	31.4	B	20.3	B	85.6		NR		NR		1180		841	
Beryllium	**0 - 1.75**	**0.16 or SB**	0.27	B	0.17	B	0.44	B	NR		NR		0.21	B	0.43	
Cadmium	**0.1 - 1**	**1 or SB**	0.085	U	0.09	B	0.088	U	NR		NR		0.62	B	0.80	B
Calcium	**130 - 35000**	**SB**	22100		15000		21700		NR		NR		3420		102500	
Chromium	**1.5 - 40**	**10 or SB**	13.8		5.7		14.5		NR		NR		38.6		21.3	
Cobalt	**2.6 - 60**	**30 or SB**	6.9	B	2.6	B	5.8	B	NR		NR		6.5	B	6.6	B
Copper	**1 - 50**	**25 or SB**	25.1		11.1		14.7		NR		NR		41.8		19.9	
Iron	**2000 - 550000**	**2000 or SB**	19800		5590		13200		NR		NR		15000		19500	
Lead	**200 - 500**	**SB**	20.0		3.6		6.2		NR		NR		5180		179	
Magnesium	**100 - 5000**	**SB**	5560		5960		11400		NR		NR		4120		8320	
Manganese	**50 - 5000**	**SB**	257		134		276		NR		NR		182		457	
Mercury	**0.001 - 0.2**	**0.1**	0.02	B	0.016	U	0.020	U	NR		NR		0.18		0.06	
Nickel	**0.5 - 25**	**13 or SB**	16.4		9.2		14.9		NR		NR		22.0		14.5	
Potassium	**8500 - 43000**	**SB**	1280		536	B	1930		NR		NR		1920		569	B
Selenium	**0.1 - 3.9**	**2 or SB**	0.83	U	0.81	U	0.86	U	NR		NR		0.91	U	0.87	U
Silver	**N/A**	**SB**	0.15	U	0.14	U	0.15	U	NR		NR		0.16	U	0.29	U
Sodium	**6000 - 8000**	**SB**	320	B	108	B	270	B	NR		NR		200	B	418	B
Thallium	**N/A**	**SB**	0.93	U	0.91	U	0.97	U	NR		NR		1.0	U	0.98	U
Vanadium	**1 - 300**	**150 or SB**	17.1		6.3	B	17.2		NR		NR		15.9		15.8	
Zinc	**9 - 50**	**20 or SB**	52.1		12.3		26.9		NR		NR		360		760	

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 8
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 40

Sample ID	New York	AOC-40-1-3.5	AOC-40-2-5	AOC-40-3-8	AOC-40-4-6	AOC-40-5-7	AOC-40-6-11	AOC-40-7-4	AOC-40-8-4	AOC-40-9-8	AOC-40-10-11	Duplicate-2
Lab Sample Number	TAGM	367946	367947	367948	367949	367950	367951	367952	367953	367954	367955	367956
Sampling Date	Rec. Soil	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)												
Chloromethane	NA	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Bromomethane	NA	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
VinylChloride	0.2	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Chloroethane	1.9	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
MethyleneChloride	0.1	0.001 J	0.0009 J	0.0011 J	0.0012 J	0.0015 J	0.0027 J	0.0009 J	0.0008 J	0.0007 J	0.001 J	0.0018 J
Acetone	0.2	0.017	0.014	0.064	0.036	0.069	0.042	0.016	0.027	0.026	0.017	0.03
CarbonDisulfide	2.7	0.0016 J	0.006 U	0.0048 J	0.0006 J	0.012	0.0036 J	0.0007 J	0.0023 J	0.002 J	0.0044 J	0.0058 J
1,1-Dichloroethene	0.4	0.002 U	0.0008 J	0.0024 U	0.0021 U	0.0024 U	0.0029 U	0.002 U	0.0021 U	0.0023 U	0.0006 J	0.0023 U
1,1-Dichloroethane	0.2	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
trans-1,2-Dichloroethene	0.3	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
cis-1,2-Dichloroethene	NA	0.0051 U	0.0013 J	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0005 J	0.0019 J
Chloroform	0.3	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0012 J	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
1,2-Dichloroethane	0.1	0.002 U	0.0024 U	0.0024 U	0.0021 U	0.0024 U	0.0029 U	0.002 U	0.0021 U	0.0023 U	0.0023 U	0.0023 U
2-Butanone	0.3	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
1,1,1-Trichloroethane	0.8	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
CarbonTetrachloride	0.6	0.002 U	0.0024 U	0.0024 U	0.0021 U	0.0024 U	0.0029 U	0.002 U	0.0021 U	0.0023 U	0.0023 U	0.0023 U
Bromodichloromethane	NA	0.001 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0015 U	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0012 U
1,2-Dichloropropane	NA	0.001 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0015 U	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0012 U
cis-1,3-Dichloropropene	NA	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Trichloroethene	0.7	0.001 U	0.0004 J	0.0012 U	0.0011 U	0.0012 U	0.0015 U	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0012 U
Dibromochloromethane	NA	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
1,1,2-Trichloroethane	NA	0.0031 U	0.0036 U	0.0035 U	0.0032 U	0.0037 U	0.0044 U	0.003 U	0.0032 U	0.0034 U	0.0034 U	0.0035 U
Benzene	0.06	0.001 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0012 J	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0012 U
trans-1,3-Dichloropropene	NA	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Bromoform	NA	0.011	0.008	0.0047 U	0.011	0.007	0.016	0.011	0.0041 J	0.0072	0.0082	0.016
4-Methyl-2-Pentanone	1	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
2-Hexanone	NA	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Tetrachloroethene	1.4	0.001 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0015 U	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0012 U
1,1,2,2-Tetrachloroethane	0.6	0.001 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0015 U	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0012 U
Toluene	1.5	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Chlorobenzene	1.7	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Ethylbenzene	5.5	0.0041 U	0.0048 U	0.0047 U	0.0043 U	0.0049 U	0.0058 U	0.0041 U	0.0042 U	0.0045 U	0.0046 U	0.0047 U
Styrene	NA	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Xylene(Total)	1.2	0.0051 U	0.006 U	0.0059 U	0.0054 U	0.0061 U	0.0073 U	0.0051 U	0.0053 U	0.0057 U	0.0057 U	0.0059 U
Total Confident Conc. VOAs (s)		0.028	0.02	0.064	0.047	0.088	0.058	0.027	0.0027	0.033	0.023	0.046
Total Estimated Conc. VOA TICs (s)		0.134	0	0	0.017	0.023	0.32	0.036	0.0053	0	0.0064	0.017

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 8
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 40

Sample ID	New York	AOC-40-1-3.5	AOC-40-2-5	AOC-40-3-8	AOC-40-4-6	AOC-40-5-7	AOC-40-8-11	AOC-40-7-4	AOC-40-8-4	AOC-40-9-8	AOC-40-10-11	Duplicate-2
Lab Sample Number	TAGM	367946	367947	367948	367949	367950	367951	367952	367953	367954	367955	367956
Sampling Date	Rec. Soil	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor				1.0					1.0		1.0	1.0
SEMIVOLATILE COMPOUNDS (GC/MS)												
Phenol	**0.030 or MDL**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2-Chlorophenol	**0.8**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2-Methylphenol	**0.100 or MDL**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
4-Methylphenol	**0.9**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2-Nitrophenol	**0.330 or MDL**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2,4-Dimethylphenol	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2,4-Dichlorophenol	**0.4**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
4-Chloro-3-methylphenol	**0.240 or MDL**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2,4,6-Trichlorophenol	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2,4,5-Trichlorophenol	**0.1**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2,4-Dinitrophenol	**0.200 or MDL**	NR	NR	1.6 U	NR	NR	NR	NR	1.5 U	NR	1.6 U	1.6 U
4-Nitrophenol	**0.100 or MDL**	NR	NR	1.6 U	NR	NR	NR	NR	1.5 U	NR	1.6 U	1.6 U
4,6-Dinitro-2-methylphenol	**NA**	NR	NR	1.6 U	NR	NR	NR	NR	1.5 U	NR	1.6 U	1.6 U
Pentachlorophenol	**1 or MDL**	NR	NR	1.6 U	NR	NR	NR	NR	1.5 U	NR	1.6 U	1.6 U
bis(2-Chloroethyl)ether	**NA**	NR	NR	0.039 U	NR	NR	NR	NR	0.037 U	NR	0.04 U	0.04 U
1,3-Dichlorobenzene	**1.6**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
1,4-Dichlorobenzene	**8.5**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
1,2-Dichlorobenzene	**7.9**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
bis(2-chloroisopropyl)ether	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
N-Nitroso-di-n-propylamine	**NA**	NR	NR	0.039 U	NR	NR	NR	NR	0.037 U	NR	0.04 U	0.04 U
Hexachloroethane	**NA**	NR	NR	0.039 U	NR	NR	NR	NR	0.037 U	NR	0.04 U	0.04 U
Nitrobenzene	**0.200 or MDL**	NR	NR	0.039 U	NR	NR	NR	NR	0.037 U	NR	0.04 U	0.04 U
Isophorone	**4.4**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
bis(2-Chloroethoxy)methane	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
1,2,4-Trichlorobenzene	**3.4**	NR	NR	0.039 U	NR	NR	NR	NR	0.037 U	NR	0.04 U	0.04 U
Naphthalene	**13**	NR	NR	0.014 J	NR	NR	NR	NR	0.08 J	NR	0.4 U	0.4 U
4-Chloroaniline	**0.220 or MDL**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
Hexachlorobutadiene	**NA**	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.079 U	0.079 U
2-Methylnaphthalene	**36.400**	NR	NR	0.036 J	NR	NR	NR	NR	0.12 J	NR	0.4 U	0.4 U
Dilution Factor				1.0					1.0		1.0	1.0
Hexachlorocyclopentadiene	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2-Chloronaphthalene	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
2-Nitroaniline	**0.430 or MDL**	NR	NR	0.79 U	NR	NR	NR	NR	0.74 U	NR	0.79 U	0.79 U
Dimethylphthalate	**2.0**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
Acenaphthylene	**50**	NR	NR	0.03 J	NR	NR	NR	NR	0.039 J	NR	0.4 U	0.4 U
2,6-Dinitrotoluene	**1.0**	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.079 U	0.079 U
3-Nitroaniline	**.500 or MDL**	NR	NR	0.79 U	NR	NR	NR	NR	0.74 U	NR	0.79 U	0.79 U
Acenaphthene	**50**	NR	NR	0.028 J	NR	NR	NR	NR	0.0087 J	NR	0.4 U	0.4 U
Dibenzofuran	**6.2**	NR	NR	0.038 J	NR	NR	NR	NR	0.025 J	NR	0.4 U	0.4 U
2,4-Dinitrotoluene	**NA**	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.079 U	0.079 U
Diethylphthalate	**7.1**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
4-Chlorophenyl-phenylether	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
Fluorene	**50**	NR	NR	0.025 J	NR	NR	NR	NR	0.0078 J	NR	0.4 U	0.4 U
4-Nitroaniline	**NA**	NR	NR	0.79 U	NR	NR	NR	NR	0.74 U	NR	0.79 U	0.79 U
N-Nitrosodiphenylamine	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
4-Bromophenyl-phenylether	**NA**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
Hexachlorobenzene	**0.410**	NR	NR	0.039 U	NR	NR	NR	NR	0.037 U	NR	0.04 U	0.04 U
Phenanthrene	**50**	NR	NR	0.46	NR	NR	NR	NR	0.16 J	NR	0.4 U	0.4 U
Anthracene	**50**	NR	NR	0.089 J	NR	NR	NR	NR	0.034 J	NR	0.4 U	0.4 U
Carbazole	**NA**	NR	NR	0.032 J	NR	NR	NR	NR	0.016 J	NR	0.4 U	0.4 U
Di-n-butylphthalate	**8.1**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
Fluoranthene	**50**	NR	NR	0.4	NR	NR	NR	NR	0.31 J	NR	0.4 U	0.4 U
Pyrene	**50**	NR	NR	0.33 J	NR	NR	NR	NR	0.28 J	NR	0.4 U	0.4 U
Butylbenzylphthalate	**50**	NR	NR	0.39 U	NR	NR	NR	NR	0.62	NR	0.4 U	0.4 U
3,3'-Dichlorobenzidine	**NA**	NR	NR	0.79 U	NR	NR	NR	NR	0.74 U	NR	0.79 U	0.79 U
Benzo(a)anthracene	**0.224 or MDL**	NR	NR	0.17	NR	NR	NR	NR	0.19	NR	0.04 U	0.04 U
Chrysene	**0.4**	NR	NR	0.22 J	NR	NR	NR	NR	0.25 J	NR	0.4 U	0.4 U
bis(2-Ethylhexyl)phthalate	**50**	NR	NR	0.39 U	NR	NR	NR	NR	0.12 J	NR	0.4 U	0.4 U
Di-n-octylphthalate	**50**	NR	NR	0.39 U	NR	NR	NR	NR	0.37 U	NR	0.4 U	0.4 U
Benzo(b)fluoranthene	**0.22 or MDL**	NR	NR	0.22	NR	NR	NR	NR	0.3	NR	0.04 U	0.04 U
Benzo(k)fluoranthene	**0.22 or MDL**	NR	NR	0.096	NR	NR	NR	NR	0.11	NR	0.04 U	0.04 U
Benzo(a)pyrene	**0.061 or MDL**	NR	NR	0.16	NR	NR	NR	NR	0.21	NR	0.04 U	0.04 U
Indeno(1,2,3-cd)pyrene	**3.2**	NR	NR	0.098	NR	NR	NR	NR	0.14	NR	0.04 U	0.04 U
Dibenz(a,h)anthracene	**0.014 or MDL**	NR	NR	0.036 J	NR	NR	NR	NR	0.05	NR	0.04 U	0.04 U
Benzo(g,h,i)perylene	**50**	NR	NR	0.12 J	NR	NR	NR	NR	0.14 J	NR	0.4 U	0.4 U
Total Confident Conc. BNAs (s)				1.604					1.62		0	0
Total Estimated Conc. BNA TICs (s)				0					0		0	0

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 8
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 40

Sample ID	New York	AOC-40-1-3.5	AOC-40-2-5	AOC-40-3-8	AOC-40-4-6	AOC-40-5-7	AOC-40-6-11	AOC-40-7-4	AOC-40-8-4	AOC-40-9-8	AOC-40-10-11	Duplicate-2
Lab Sample Number	TAGM	367946	367947	367948	367949	367950	367951	367952	367953	367954	367955	367956
Sampling Date	Rec. Soil	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor				1.0					1.0		1.0	1.0
PCBs												
Aroclor-1016	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1221	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1232	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1242	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1248	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1254	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1260	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1262	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
Aroclor-1268	#	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
PESTICIDES												
Aldrin	**0.041**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
alpha-BHC	**0.11**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
beta-BHC	**0.2**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
delta-BHC	**0.3**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
gamma-BHC(Lindane)	**0.06**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Chlordane	**0.54**	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
4,4'-DDD	**2.9**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
4,4'-DDE	**2.1**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
4,4'-DDT	**2.1**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Dieldrin	**0.044**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Endosulfan I	**0.9**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Endosulfan II	**0.9**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Endosulfansulfate	**1.0**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Endrin	**0.1**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Endrinaldehyde	**N/A**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Endrinketone	**N/A**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Heptachlor	**0.1**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Heptachlorepoxide	**0.02**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Methoxychlor	**Site Specific**	NR	NR	0.0079 U	NR	NR	NR	NR	0.0074 U	NR	0.008 U	0.008 U
Toxaphene	**N/A**	NR	NR	0.079 U	NR	NR	NR	NR	0.074 U	NR	0.08 U	0.08 U
WET CHEMISTRY												
TotalCyanide - mg/kg	Site Specific	NR	NR	0.5 U	NR	NR	NR	NR	0.5 U	NR	0.5 U	0.5 U

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 8
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 40

Sample ID	Eastern USA	New York	AOC-40-1-3.5	AOC-40-2-5	AOC-40-3-8	AOC-40-4-6	AOC-40-5-7	AOC-40-6-11	AOC-40-7-4	AOC-40-8-4	AOC-40-9-8	AOC-40-10-11	Duplicate-2
Lab Sample Number	Background (ppm)	TAGM	367946	367947	367948	367949	367950	367951	367952	367953	367954	367955	367956
Sampling Date		Rec. Soil	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02	08/07/02
Matrix		Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
METALS													
Aluminum	33,000	SB	4750	3980	6990	7140	7050	4420	4700	5630	6150	6250	6260
Antimony	N/A	SB	1.1 U	1.4 U	1.4 U	1.2 U	1.4 U	1.8 B	1.2 U	1.3 U	1.2 U	1.4 U	1.3 U
Arsenic	3 - 12	7.5 or SB	0.99 B	0.77 U	2.1	2.0	2.2	18.6	0.66 B	2.0	2.3	1.4	0.69 U
Barium	15 - 600	300 or SB	37.4 B	10.6 B	33.7 B	11.4 B	72.2	49.8 B	23.0 B	42.0 B	18.0 B	10.6 B	9.9 B
Beryllium	0 - 1.75	0.16 or SB	0.19 B	0.11 B	0.22 B	0.18 B	0.26 B	0.63	0.17 B	0.18 B	0.20 B	0.13 B	0.14 B
Cadmium	0.1 - 1	1 or SB	0.13 B	0.096 U	0.14 B	0.10 B	0.16 B	0.32 B	0.09 B	0.21 B	0.17 B	0.10 B	0.09 B
Calcium	130 - 35000	SB	13500	918 B	10400	2820	9880	1140 B	19000	6860	7490	3570	3680
Chromium	1.5 - 40	10 or SB	11.1	6.3	11.1	10.6	16.9	7.8	6.9	14.0	11.3	10.2	8.9
Cobalt	2.6 - 60	30 or SB	4.1 B	2.7 B	5.7 B	3.9 B	6.9 B	6.8 B	3.4 B	5.2 B	5.3 B	4.8 B	4.9 B
Copper	1 - 50	25 or SB	12.2	3.7 B	11.2	8.9	14.3	57.3	9.9	10.3	9.2	5.3 B	5.4 B
Iron	2000 - 550000	2000 or SB	10700	8770	15700	16300	17500	33600	12200	13300	15300	13300	13200
Lead	200 - 500	SB	14.2	1.9	8.5	4.2	8.7	66.2	4.0	25.6	11.3	3.8	4.3
Magnesium	100 - 5000	SB	5360	2040	4070	3500	6900	577 B	11200	2910	3480	3480	3630
Manganese	50 - 5000	SB	148	74.6	218	115	249	61.4	202	162	192	119	123
Mercury	0.001 - 0.2	0.1	0.04	0.017 U	0.02 B	0.016 U	0.05	0.12	0.017 U	0.03 B	0.05	0.02 B	0.02 B
Nickel	0.5 - 25	13 or SB	10.9	6.5 B	12.8	10.9	16.0	14.6	7.5 B	12.0	12.7	12.0	12.4
Potassium	8500 - 43000	SB	694 B	76.0 U	848 B	707 B	1680	96.9 U	462 B	623 B	630 B	376 B	341 B
Selenium	0.1 - 3.9	2 or SB	0.80 U	1.0 U	0.99 U	1.0 B	1.0 U	3.5	0.87 U	0.93 U	0.88 U	1.00 U	0.91 U
Silver	N/A	SB	0.27 U	0.34 U	0.33 U	0.28 U	0.34 U	0.43 U	0.29 U	0.31 U	0.29 U	0.33 U	0.30 U
Sodium	6000 - 8000	SB	188 B	95.3 U	120 B	136 B	127 B	137 B	82.0 U	155 B	135 B	93.9 U	85.6 U
Thallium	N/A	SB	0.90 U	1.1 U	1.1 U	0.95 U	1.2 U	1.4 U	0.97 U	1.0 U	0.98 U	1.1 U	1.0 U
Vanadium	1 - 300	150 or SB	12.1	11.7 B	13.8	11.7	20.3	13.7 B	10.6	12.2	13.0	10.2 B	9.8 B
Zinc	9 - 50	20 or SB	36.2	17.7	30.9	32.8	40.0	49.2	22.3	67.9	41.6	31.6	33.2

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 9
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
AOC- 40

Sample ID	New York	AOC-40-11-7	AOC-40-12-7	AOC-40-13-8	AOC-40-14-8	AOC-40-15-5	AOC-40-16-6	AOC-40-17-6	AOC-40-18-10	AOC-40-19-7	AOC-40-20-7
Lab Sample Number	TAGM	367957	367958	367962	367963	367964	368427	368836	368840	369402	368855
Sampling Date	Rec. Soil	08/07/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0
VOLATILE COMPOUNDS (GC/MS)											
Chloromethane	NA	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Bromomethane	NA	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
VinylChloride	0.2	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Chloroethane	1.9	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
MethyleneChloride	0.1	0.0014 J	0.0036 U	0.0007 J	0.0006 J	0.0033 U	0.0019 J	0.0015 J	0.0014 J	0.0035 U	0.0012 J
Acetone	0.2	0.024	0.21	0.033	0.033	0.015	0.066	0.0056 U	0.074	0.0058 U	0.039
CarbonDisulfide	2.7	0.0009 J	0.0073	0.0011 J	0.001 J	0.0033 J	0.0008 J	0.0074	0.0008 J	0.0058 U	0.0010 J
1,1-Dichloroethene	0.4	0.0024 U	0.0024 U	0.0021 U	0.0022 U	0.0022 U	0.0008 J	0.0022 U	0.0023 U	0.0023 U	0.0022 U
1,1-Dichloroethane	0.2	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
trans-1,2-Dichloroethene	0.3	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
cis-1,2-Dichloroethene	NA	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0009 J	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Chloroform	0.3	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
1,2-Dichloroethane	0.1	0.0024 U	0.0024 U	0.0021 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0022 U
2-Butanone	0.3	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
1,1,1-Trichloroethane	0.8	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0005 J	0.0056 U	0.0057 U	0.0058 U	0.0056 U
CarbonTetrachloride	0.6	0.0024 U	0.0024 U	0.0021 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0022 U
Bromodichloromethane	NA	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U
1,2-Dichloropropane	NA	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U
cis-1,3-Dichloropropene	NA	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Trichloroethene	0.7	0.0012 U	0.0004 J	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.001 J	0.0011 U
Dibromochloromethane	NA	0.0006 J	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
1,1,2-Trichloroethane	NA	0.0036 U	0.0036 U	0.0032 U	0.0033 U	0.0033 U	0.0033 U	0.0034 U	0.0034 U	0.0035 U	0.0034 U
Benzene	0.06	0.002	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U
trans-1,3-Dichloropropene	NA	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Bromoform	NA	0.018	0.0055	0.0085	0.0009 J	0.011	0.014	0.0034 J	0.0014 J	0.0022 J	0.0053
4-Methyl-2-Pentanone	1	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
2-Hexanone	NA	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Tetrachloroethene	1.4	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U
1,1,2,2-Tetrachloroethane	0.6	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U
Toluene	1.5	0.0037 J	0.006 U	0.0007 J	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0008 J
Chlorobenzene	1.7	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Ethylbenzene	5.5	0.0048 U	0.0048 U	0.0043 U	0.0044 U	0.0044 U	0.0044 U	0.0045 U	0.0046 U	0.0046 U	0.0045 U
Styrene	NA	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Xylene(Total)	1.2	0.006 U	0.006 U	0.0054 U	0.0056 U	0.0055 U	0.0055 U	0.0056 U	0.0057 U	0.0058 U	0.0056 U
Total Confident Conc. VOAs (s)		0.044	0.223	0.042	0.033	0.026	0.08	0.0	0.1	0	0.0
Total Estimated Conc. VOA TICs (s)		0.05	0	0	0.013	0	0.019	0	0.2	0	0.1

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 9
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
AOC- 40

Sample ID	New York	AOC-40-11-7	AOC-40-12-7	AOC-40-13-8	AOC-40-14-8	AOC-40-15-5	AOC-40-16-6	AOC-40-17-6	AOC-40-18-10	AOC-40-19-7	AOC-40-20-7
Lab Sample Number	TAGM	367957	367958	367962	367963	367964	368427	368836	368840	369402	368855
Sampling Date	Rec. Soil	08/07/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0				1.0	1.0	1.0	1.0	5.0
SEMIVOLATILE COMPOUNDS (GC/MS)											
Phenol	**0.030 or MDL**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	0.41 J
2-Chlorophenol	**0.8**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2-Methylphenol	**0.100 or MDL**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
4-Methylphenol	**0.9**	NR	0.0093 J	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2-Nitrophenol	**0.330 or MDL**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2,4-Dimethylphenol	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2,4-Dichlorophenol	**0.4**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
4-Chloro-3-methylphenol	**0.240 or MDL**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2,4,6-Trichlorophenol	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2,4,5-Trichlorophenol	**0.1**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2,4-Dinitrophenol	**0.200 or MDL**	NR	1.6 U	NR	NR	NR	1.5 U	1.6 U	16 U	1.6 U	7.8 U
4-Nitrophenol	**0.100 or MDL**	NR	1.6 U	NR	NR	NR	1.5 U	1.6 U	16 U	1.6 U	7.8 U
4,6-Dinitro-2-methylphenol	**NA**	NR	1.6 U	NR	NR	NR	1.5 U	1.6 U	16 U	1.6 U	7.8 U
Pentachlorophenol	**1 or MDL**	NR	1.6 U	NR	NR	NR	1.5 U	1.6 U	16 U	1.6 U	7.8 U
bis(2-Chloroethyl)ether	**NA**	NR	0.041 U	NR	NR	NR	0.037 U	0.039 U	0.39 U	0.039 U	0.19 U
1,3-Dichlorobenzene	**1.8**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
1,4-Dichlorobenzene	**8.5**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
1,2-Dichlorobenzene	**7.9**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
bis(2-chloroisopropyl)ether	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
N-Nitroso-di-n-propylamine	**NA**	NR	0.041 U	NR	NR	NR	0.037 U	0.039 U	0.39 U	0.039 U	0.19 U
Hexachloroethane	**NA**	NR	0.041 U	NR	NR	NR	0.037 U	0.039 U	0.39 U	0.039 U	0.19 U
Nitrobenzene	**0.200 or MDL**	NR	0.041 U	NR	NR	NR	0.037 U	0.039 U	0.39 U	0.039 U	0.19 U
Isophorone	**4.4**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
bis(2-Chloroethoxy)methane	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
1,2,4-Trichlorobenzene	**3.4**	NR	0.041 U	NR	NR	NR	0.037 U	0.039 U	0.39 U	0.039 U	0.19 U
Naphthalene	**13**	NR	0.015 J	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	0.47 J
4-Chloroaniline	**0.220 or MDL**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
Hexachlorobutadiene	**NA**	NR	0.081 U	NR	NR	NR	0.074 U	0.079 U	0.78 U	0.079 U	0.39 U
2-Methylnaphthalene	**36.400**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	0.5 J
Dilution Factor			1.0				1.0	1.0	1.0	1.0	5.0
Hexachlorocyclopentadiene	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2-Chloronaphthalene	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
2-Nitroaniline	**0.430 or MDL**	NR	0.81 U	NR	NR	NR	0.74 U	0.79 U	7.8 U	0.79 U	3.9 U
Dimethylphthalate	**2.0**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
Acenaphthylene	**50**	NR	0.062 J	NR	NR	NR	0.37 U	0.012 J	3.9 U	0.39 U	0.14 J
2,6-Dinitrotoluene	**1.0**	NR	0.081 U	NR	NR	NR	0.074 U	0.079 U	0.78 U	0.079 U	0.39 U
3-Nitroaniline	**.500 or MDL**	NR	0.81 U	NR	NR	NR	0.74 U	0.79 U	7.8 U	0.79 U	3.9 U
Acenaphthene	**50**	NR	0.0085 J	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.3 J
Dibenzofuran	**6.2**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.0 J
2,4-Dinitrotoluene	**NA**	NR	0.081 U	NR	NR	NR	0.074 U	0.079 U	0.78 U	0.079 U	0.39 U
Diethylphthalate	**7.1**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
4-Chlorophenyl-phenylether	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
Fluorene	**50**	NR	0.014 J	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.0 J
4-Nitroaniline	**NA**	NR	0.81 U	NR	NR	NR	0.74 U	0.79 U	7.8 U	0.79 U	3.9 U
N-Nitrosodiphenylamine	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
4-Bromophenyl-phenylether	**NA**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
Hexachlorobenzene	**0.410**	NR	0.041 U	NR	NR	NR	0.037 U	0.039 U	0.39 U	0.039 U	0.19 U
Phenanthrene	**50**	NR	0.14 J	NR	NR	NR	0.37 U	0.039 J	3.9 U	0.39 U	12.0
Anthracene	**50**	NR	0.04 J	NR	NR	NR	0.37 U	0.015 J	3.9 U	0.39 U	2.7
Carbazole	**NA**	NR	0.011 J	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.1 J
Di-n-butylphthalate	**8.1**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
Fluoranthene	**50**	NR	0.35 J	NR	NR	NR	0.37 U	0.081 J	3.9 U	0.39 U	12.0
Pyrene	**50**	NR	0.34 J	NR	NR	NR	0.37 U	0.073 J	3.9 U	0.39 U	9.9
Butylbenzylphthalate	**50**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
3,3'-Dichlorobenzidine	**NA**	NR	0.81 U	NR	NR	NR	0.74 U	0.79 U	7.8 U	0.79 U	3.9 U
Benzo(a)anthracene	**0.224 or MDL**	NR	0.2	NR	NR	NR	0.037 U	0.047	0.39 U	0.039 U	4.8
Chrysene	**0.4**	NR	0.25 J	NR	NR	NR	0.37 U	0.044 J	3.9 U	0.39 U	5.4
bis(2-Ethylhexyl)phthalate	**50**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	0.41 J
Di-n-octylphthalate	**50**	NR	0.41 U	NR	NR	NR	0.37 U	0.39 U	3.9 U	0.39 U	1.9 U
Benzo(b)fluoranthene	**0.22 or MDL**	NR	0.27	NR	NR	NR	0.037 U	0.057	0.39 U	0.039 U	4.7
Benzo(k)fluoranthene	**0.22 or MDL**	NR	0.11	NR	NR	NR	0.037 U	0.018 J	0.39 U	0.039 U	2.2
Benzo(a)pyrene	**0.061 or MDL**	NR	0.22	NR	NR	NR	0.037 U	0.040	0.39 U	0.039 U	3.6
Indeno(1,2,3-cd)pyrene	**3.2**	NR	0.12	NR	NR	NR	0.037 U	0.026 J	0.39 U	0.039 U	2.4
Dibenz(a,h)anthracene	**0.014 or MDL**	NR	0.042	NR	NR	NR	0.037 U	0.039 U	0.39 U	0.039 U	0.88
Benzo(g,h,i)perylene	**50**	NR	0.11 J	NR	NR	NR	0.37 U	0.028 J	3.9 U	0.39 U	2.3
Total Concentration Conc. SVAs (c)			0.962				0	0.1	0	0	62.7
Total Estimated Conc. SVA TICs (s)			3.47				0	0.4	71	0	66.9

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 9
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
AOC- 40

Sample ID	New York	AOC-40-11-7	AOC-40-12-7	AOC-40-13-8	AOC-40-14-8	AOC-40-15-5	AOC-40-16-8	AOC-40-17-8	AOC-40-18-10	AOC-40-19-7	AOC-40-20-7
Lab Sample Number	TAGM	367957	367958	367962	367963	367964	368427	368836	368840	369402	368855
Sampling Date	Rec. Soil	08/07/02	08/08/02	08/08/02	08/08/02	08/08/02	08/06/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units	Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0					1.0	1.0	1.0	5.0
PCBs											
Aroclor-1016	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
Aroclor-1221	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
Aroclor-1232	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
Aroclor-1242	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.24
Aroclor-1248	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
Aroclor-1254	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.19
Aroclor-1260	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
Aroclor-1262	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
Aroclor-1268	#	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
PESTICIDES											
Aldrin	**0.041**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
alpha-BHC	**0.11**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
beta-BHC	**0.2**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.010 P*
delta-BHC	**0.3**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
gamma-BHC(Lindane)	**0.06**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Chlordane	**0.54**	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
4,4'-DDD	**2.9**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
4,4'-DDE	**2.1**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.012
4,4'-DDT	**2.1**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.015
Dieldrin	**0.044**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Endosulfan I	**0.9**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Endosulfan II	**0.9**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Endosulfansulfate	**1.0**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Endrin	**0.1**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Endrinaldehyde	**N/A**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Endrinketone	**N/A**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.027
Heptachlor	**0.1**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Heptachlorepoxide	**0.02**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.0078 U
Methoxychlor	**Site Specific**	NR	0.0082 U	NR	NR	NR	NR	0.0079 U	0.0078 U	0.0079 U	0.038 P*
Toxaphene	**N/A**	NR	0.082 U	NR	NR	NR	NR	0.079 U	0.078 U	0.079 U	0.078 U
WET CHEMISTRY											
TotalCyanide - mg/kg	Site Specific	NR	0.5 U	NR	NR	NR	NR	0.5 U	0.5 U	0.5 U	0.5 U

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 9
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
AOC- 40

Sample ID	Eastern USA	New York	AOC-40-11-7	AOC-40-12-7	AOC-40-13-8	AOC-40-14-6	AOC-40-15-5	AOC-40-16-6	AOC-40-17-6	AOC-40-18-10	AOC-40-19-7	AOC-40-20-7
Lab Sample Number	Background (ppm)	TAGM	367957	367958	367962	367963	367964	368427	368838	368840	369402	368855
Sampling Date		Rec. Soil	08/07/02	08/08/02	08/08/02	08/08/02	08/08/02	08/06/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix		Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		Criteria (mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0
METALS												
Aluminum	33,000	SB	7030	6790	6150	4480	7390	NR	10200	6860	8320	9220
Antimony	N/A	SB	1.3 U	1.4 U	1.00 U	0.94 U	1.0 U	NR	0.92 U	0.91 U	1.4 U	1.8 B
Arsenic	3 - 12	7.5 or SB	2.9	3.5	4.1	5.8	1.7	NR	2.0	2.0	0.75 U	4.4
Barium	15 - 600	300 or SB	43.8 B	59.0	51.5	59.0	13.2 B	NR	54.1	40.2 B	47.9	216
Beryllium	0 - 1.75	0.16 or SB	0.17 B	0.21 B	0.31 B	0.31 B	0.32 B	NR	0.43 B	0.29 B	0.47	0.37 B
Cadmium	0.1 - 1	1 or SB	0.15 B	0.31 B	0.089 U	0.083 U	0.092 U	NR	0.085 U	0.094 U	0.094 U	0.20 B
Calcium	130 - 35000	SB	2270	4630	5670	4520	11700	NR	12400	2080	1850	83600
Chromium	1.5 - 40	10 or SB	16.1	15.8	13.8	10.7	9.1	NR	16.6	9.5	17.0	15.0
Cobalt	2.6 - 60	30 or SB	5.1 B	5.3 B	5.8 B	5.7 B	5.0 B	NR	8.3 B	5.4 B	7.3 B	3.5 B
Copper	1 - 50	25 or SB	14.5	15.5	23.0	45.1	9.1	NR	17.7	12.4	13.9	14.3
Iron	2000 - 550000	2000 or SB	17900	20400	21400	20200	17100	NR	20900	11600	15600	12200
Lead	200 - 500	SB	33.2	104	32.3	125	3.8	NR	16.5	5.2	7.9	90.1
Magnesium	100 - 5000	SB	3440	3200	3770	3400	4180	NR	6200	2560	3110	7580
Manganese	50 - 5000	SB	161	267	194	159	189	NR	417	99.3	390	246
Mercury	0.001 - 0.2	0.1	0.05	0.07	0.06	0.08	0.019 U	NR	0.04 B	0.02 B	0.020 U	0.11
Nickel	0.5 - 25	13 or SB	12.6	12.6	13.4	13.2	13.5	NR	16.9	10.4	16.7	9.8
Potassium	8500 - 43000	SB	1060 B	1020 B	1210	1320	704 B	NR	1520	626 B	1570	712 B
Selenium	0.1 - 3.9	2 or SB	0.94 U	1.0 U	1.00 U	0.94 U	1.0 U	NR	0.92 U	0.91 U	0.99 U	0.83 U
Silver	N/A	SB	0.31 U	0.34 U	0.24 U	0.25 B	0.25 U	NR	0.71 B	0.16 U	0.33 U	0.15 U
Sodium	6000 - 8000	SB	88.1 U	180 B	184 B	73.4 U	148 B	NR	297 B	116 B	854 B	329 B
Thallium	N/A	SB	1.0 U	1.1 U	0.91 U	0.86 U	0.95 U	NR	1.0 U	1.0 U	1.1 U	0.94 U
Vanadium	1 - 300	150 or SB	17.0	17.1	17.4	17.7	10.8 B	NR	18.6	14.5	18.8	19.1
Zinc	9 - 50	20 or SB	56.9	66.5	59.7	63.8	34.5	NR	83.3	35.2	31.4	194

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 10
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 41,42

Sample ID	New York TAGM	AOC-41-1-3	AOC-41-2-2	AOC-41-3-3	AOC-42-1-3
Lab Sample Number	Rec. Soil	369418	369420	369421	368421
Sampling Date	Cleanup Objective	08/15/02	08/15/02	08/15/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0			1.0
VOLATILE COMPOUNDS (GC/MS)					
Chloromethane	**NA**	0.0053 U	NR	NR	0.0053 U
Bromomethane	**NA**	0.0053 U	NR	NR	0.0053 U
VinylChloride	**0.2**	0.0053 U	NR	NR	0.0053 U
Chloroethane	**1.9**	0.0053 U	NR	NR	0.0053 U
MethyleneChloride	**0.1**	0.0032 U	NR	NR	0.0014 J
Acetone	**0.2**	0.025	NR	NR	0.046
CarbonDisulfide	**2.7**	0.0007 J	NR	NR	0.0011 J
1,1-Dichloroethene	**0.4**	0.0021 U	NR	NR	0.0021 U
1,1-Dichloroethane	**0.2**	0.0053 U	NR	NR	0.0053 U
trans-1,2-Dichloroethene	**0.3**	0.0053 U	NR	NR	0.0053 U
cis-1,2-Dichloroethene	**NA**	0.0053 U	NR	NR	0.0053 U
Chloroform	**0.3**	0.0053 U	NR	NR	0.0053 U
1,2-Dichloroethane	**0.1**	0.0021 U	NR	NR	0.0021 U
2-Butanone	**0.3**	0.0053 U	NR	NR	0.0053 U
1,1,1-Trichloroethane	**0.8**	0.0053 U	NR	NR	0.0053 U
CarbonTetrachloride	**0.6**	0.0021 U	NR	NR	0.0021 U
Bromodichloromethane	**NA**	0.0011 U	NR	NR	0.0011 U
1,2-Dichloropropane	**NA**	0.0011 U	NR	NR	0.0011 U
cis-1,3-Dichloropropene	**NA**	0.0053 U	NR	NR	0.0053 U
Trichloroethene	**0.7**	0.0011 U	NR	NR	0.0011 U
Dibromochloromethane	**NA**	0.0053 U	NR	NR	0.0053 U
1,1,2-Trichloroethane	**NA**	0.0032 U	NR	NR	0.0032 U
Benzene	**0.06**	0.0011 U	NR	NR	0.0011 U
trans-1,3-Dichloropropene	**NA**	0.0053 U	NR	NR	0.0053 U
Bromoform	**NA**	0.0034 J	NR	NR	0.0091
4-Methyl-2-Pentanone	**1**	0.0053 U	NR	NR	0.0053 U
2-Hexanone	**NA**	0.0053 U	NR	NR	0.0053 U
Tetrachloroethene	**1.4**	0.0011 U	NR	NR	0.0011 U
1,1,2,2-Tetrachloroethane	**0.6**	0.0011 U	NR	NR	0.0011 U
Toluene	**1.5**	0.0053 U	NR	NR	0.0053 U
Chlorobenzene	**1.7**	0.0053 U	NR	NR	0.0053 U
Ethylbenzene	**5.5**	0.0042 U	NR	NR	0.0042 U
Styrene	**NA**	0.0053 U	NR	NR	0.0053 U
Xylene(Total)	**1.2**	0.0053 U	NR	NR	0.0053 U
Total Confident Conc. VOAs (s)		0.025			0.055
Total Estimated Conc. VOA TICs (s)		0			0.115

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 10
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 41,42

Sample ID	New York TAGM	AOC-41-1-3	AOC-41-2-2	AOC-41-3-3	AOC-42-1-3
Lab Sample Number	Rec. Soil	369418	369420	369421	368421
Sampling Date	Cleanup Objective	08/15/02	08/15/02	08/15/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0
SEMIVOLATILE COMPOUNDS (GC/MS)					
Phenol	**0.030 or MDL**	0.36 U	0.37 U	0.35 U	3.8 U
2-Chlorophenol	**0.8**	0.36 U	0.37 U	0.35 U	3.8 U
2-Methylphenol	**0.100 or MDL**	0.36 U	0.37 U	0.35 U	3.8 U
4-Methylphenol	**0.9**	0.36 U	0.37 U	0.35 U	3.8 U
2-Nitrophenol	**0.330 or MDL**	0.36 U	0.37 U	0.35 U	3.8 U
2,4-Dimethylphenol	**NA**	0.36 U	0.37 U	0.35 U	3.8 U
2,4-Dichlorophenol	**0.4**	0.36 U	0.37 U	0.35 U	3.8 U
4-Chloro-3-methylphenol	**0.240 or MDL**	0.36 U	0.37 U	0.35 U	3.8 U
2,4,6-Trichlorophenol	**NA**	0.36 U	0.37 U	0.35 U	3.8 U
2,4,5-Trichlorophenol	**0.1**	0.36 U	0.37 U	0.35 U	3.8 U
2,4-Dinitrophenol	**0.200 or MDL**	1.4 U	1.5 U	1.4 U	15 U
4-Nitrophenol	**0.100 or MDL**	1.4 U	1.5 U	1.4 U	15 U
4,6-Dinitro-2-methylphenol	**NA**	1.4 U	1.5 U	1.4 U	15 U
Pentachlorophenol	**1 or MDL**	1.4 U	1.5 U	1.4 U	15 U
bis(2-Chloroethyl)ether	**NA**	0.036 U	0.037 U	0.035 U	0.38 U
1,3-Dichlorobenzene	**1.6**	0.36 U	0.37 U	0.35 U	3.8 U
1,4-Dichlorobenzene	**8.5**	0.36 U	0.37 U	0.35 U	3.8 U
1,2-Dichlorobenzene	**7.9**	0.36 U	0.37 U	0.35 U	3.8 U
bis(2-chloroisopropyl)ether	**NA**	0.36 U	0.37 U	0.35 U	3.8 U
N-Nitroso-di-n-propylamine	**NA**	0.036 U	0.037 U	0.035 U	0.38 U
Hexachloroethane	**NA**	0.036 U	0.037 U	0.035 U	0.38 U
Nitrobenzene	**0.200 or MDL**	0.036 U	0.037 U	0.035 U	0.38 U
Isophorone	**4.4**	0.36 U	0.37 U	0.35 U	3.8 U
bis(2-Chloroethoxy)methane	**NA**	0.36 U	0.37 U	0.35 U	3.8 U
1,2,4-Trichlorobenzene	**3.4**	0.036 U	0.037 U	0.035 U	0.38 U
Naphthalene	**13**	0.36 U	0.019 J	0.012 J	0.36 J
4-Chloroaniline	**0.220 or MDL**	0.36 U	0.37 U	0.35 U	3.8 U
Hexachlorobutadiene	**NA**	0.072 U	0.073 U	0.07 U	0.75 U
2-Methylnaphthalene	**36.400**	0.36 U	0.016 J	0.019 J	0.35 J

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 10
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 41,42

Sample ID	New York TAGM	AOC-41-1-3	AOC-41-2-2	AOC-41-3-3	AOC-42-1-3
Lab Sample Number	Rec. Soil	369418	369420	369421	368421
Sampling Date	Cleanup Objective	08/15/02	08/15/02	08/15/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0
Hexachlorocyclopentadiene	NA	0.36 U	0.37 U	0.35 U	3.8 U
2-Chloronaphthalene	NA	0.36 U	0.37 U	0.35 U	3.8 U
2-Nitroaniline	0.430 or MDL	0.72 U	0.73 U	0.7 U	7.5 U
Dimethylphthalate	2.0	0.36 U	0.37 U	0.35 U	3.8 U
Acenaphthylene	50	0.36 U	0.015 J	0.04 J	0.25 J
2,6-Dinitrotoluene	1.0	0.072 U	0.073 U	0.07 U	0.75 U
3-Nitroaniline	.500 or MDL	0.72 U	0.73 U	0.7 U	7.5 U
Acenaphthene	50	0.36 U	0.07 J	0.014 J	1.6 J
Dibenzofuran	6.2	0.36 U	0.029 J	0.0086 J	0.97 J
2,4-Dinitrotoluene	NA	0.072 U	0.073 U	0.07 U	0.75 U
Diethylphthalate	7.1	0.36 U	0.37 U	0.35 U	3.8 U
4-Chlorophenyl-phenylether	NA	0.36 U	0.37 U	0.35 U	3.8 U
Fluorene	50	0.36 U	0.041 J	0.022 J	1.6 J
4-Nitroaniline	NA	0.72 U	0.73 U	0.7 U	7.5 U
N-Nitrosodiphenylamine	NA	0.36 U	0.37 U	0.35 U	3.8 U
4-Bromophenyl-phenylether	NA	0.36 U	0.37 U	0.35 U	3.8 U
Hexachlorobenzene	0.410	0.036 U	0.037 U	0.035 U	0.38 U
Phenanthrene	50	0.36 U	0.29 J	0.12 J	21
Anthracene	50	0.36 U	0.1 J	0.047 J	5.6
Carbazole	NA	0.36 U	0.039 J	0.011 J	1.9 J
Di-n-butylphthalate	8.1	0.36 U	0.37 U	0.35 U	3.8 U
Fluoranthene	50	0.016 J	0.42	0.2 J	28
Pyrene	50	0.012 J	0.48	0.23 J	28
Butylbenzylphthalate	50	0.36 U	0.12 J	0.35 U	3.8 U
3,3'-Dichlorobenzidine	NA	0.72 U	0.73 U	0.7 U	7.5 U
Benzo(a)anthracene	0.224 or MDL	0.036 U	0.21	0.1	15
Chrysene	0.4	0.36 U	0.23 J	0.1 J	14
bis(2-Ethylhexyl)phthalate	50	0.36 U	0.37 U	0.073 J	0.83 J
Di-n-octylphthalate	50	0.36 U	0.37 U	0.35 U	3.8 U
Benzo(b)fluoranthene	0.22 or MDL	0.036 U	0.24	0.15	13
Benzo(k)fluoranthene	0.22 or MDL	0.036 U	0.12	0.058	6.5
Benzo(a)pyrene	0.061 or MDL	0.036 U	0.2	0.095	10
Indeno(1,2,3-cd)pyrene	3.2	0.036 U	0.1	0.032 J	6.3
Dibenz(a,h)anthracene	0.014 or MDL	0.036 U	0.03 J	0.035 U	1.8
Benzo(g,h,i)perylene	50	0.36 U	0.082 J	0.029 J	5.4
Total Confident Conc. BNAs (s)		0	1.77	0.403	154.6
Total Estimated Conc. BNA TICs (s)		0	12.75	4.22	99.5

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 10
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 41,42

Sample ID	New York TAGM	AOC-41-1-3	AOC-41-2-2	AOC-41-3-3	AOC-42-1-3
Lab Sample Number	Rec. Soil	369418	369420	369421	368421
Sampling Date	Cleanup Objective	08/15/02	08/15/02	08/15/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	
PCBs					
Aroclor-1016	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1221	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1232	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1242	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1248	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1254	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1260	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1262	#	0.072 U	0.074 U	0.07 U	NR
Aroclor-1268	#	0.072 U	0.074 U	0.07 U	NR
PESTICIDES					
Aldrin	**0.041**	0.0072 U	NR	NR	NR
alpha-BHC	**0.11**	0.0072 U	NR	NR	NR
beta-BHC	**0.2**	0.0072 U	NR	NR	NR
delta-BHC	**0.3**	0.0072 U	NR	NR	NR
gamma-BHC(Lindane)	**0.06**	0.0072 U	NR	NR	NR
Chlordane	**0.54**	0.072 U	NR	NR	NR
4,4'-DDD	**2.9**	0.0072 U	NR	NR	NR
4,4'-DDE	**2.1**	0.0072 U	NR	NR	NR
4,4'-DDT	**2.1**	0.0072 U	NR	NR	NR
Dieldrin	**0.044**	0.0072 U	NR	NR	NR
EndosulfanI	**0.9**	0.0072 U	NR	NR	NR
EndosulfanII	**0.9**	0.0072 U	NR	NR	NR
Endosulfansulfate	**1.0**	0.0072 U	NR	NR	NR
Endrin	**0.1**	0.0072 U	NR	NR	NR
Endrinaldehyde	**N/A**	0.0072 U	NR	NR	NR
Endrinketone	**N/A**	0.0072 U	NR	NR	NR
Heptachlor	**0.1**	0.0072 U	NR	NR	NR
Heptachlorepoxide	**0.02**	0.0072 U	NR	NR	NR
Methoxychlor	**Site Specific**	0.0072 U	NR	NR	NR
Toxaphene	**N/A**	0.072 U	NR	NR	NR
WET CHEMISTRY					
TotalCyanide - mg/kg	Site Specific	0.5 U	NR	NR	NR

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 10
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 41,42

Sample ID	Eastern USA	New York TAGM	AOC-41-1-3	AOC-41-2-2	AOC-41-3-3	AOC-42-1-3
Lab Sample Number	Background (ppm)	Rec. Soil	369418	369420	369421	368421
Sampling Date		Cleanup Objective	08/15/02	08/15/02	08/15/02	08/08/02
Matrix		Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID
Units			mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0			1.0
METALS						
Aluminum	**33,000**	**SB**	9160	8150	7780	NR
Antimony	**N/A**	**SB**	1.1 U	1.3 U	1.2 U	NR
Arsenic	**3 - 12**	**7.5 or SB**	0.63 U	3.2	2.4	NR
Barium	**15 - 600**	**300 or SB**	68.8	33.8 B	45.7	NR
Beryllium	**0 - 1.75**	**0.16 or SB**	0.20 B	0.24 B	0.19 B	NR
Cadmium	**0.1 - 1**	**1 or SB**	0.078 U	0.088 U	0.33 B	NR
Calcium	**130 - 35000**	**SB**	2780	3650	7060	NR
Chromium	**1.5 - 40**	**10 or SB**	20.9	15.8	10.4	NR
Cobalt	**2.6 - 60**	**30 or SB**	8.4 B	7.0 B	10.7	NR
Copper	**1 - 50**	**25 or SB**	22.2	14.8	128	NR
Iron	**2000 - 550000**	**2000 or SB**	16600	18400	28700	NR
Lead	**200 - 500**	**SB**	7	19.9	26.6	NR
Magnesium	**100 - 5000**	**SB**	5440	4140	4220	NR
Manganese	**50 - 5000**	**SB**	255	223	278	NR
Mercury	**0.001 - 0.2**	**0.1**	0.20	3.7	0.39	NR
Nickel	**0.5 - 25**	**13 or SB**	17.7	16.4	10.9	NR
Potassium	**8500 - 43000**	**SB**	1740	1070 B	844 B	NR
Selenium	**0.1 - 3.9**	**2 or SB**	0.82 U	0.92 U	1.7	NR
Silver	**N/A**	**SB**	0.27 U	0.31 U	0.29 U	NR
Sodium	**6000 - 8000**	**SB**	163 B	178 B	390 B	NR
Thallium	**N/A**	**SB**	0.92 U	1.0 U	0.99 U	NR
Vanadium	**1 - 300**	**150 or SB**	24.4	17.3	42.0	NR
Zinc	**9 - 50**	**20 or SB**	41.7	66.2	75.7	NR

U - The compound not detected at the indicated concentration.
J - Approximate concentration
B - Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 11
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 43

Sample ID	New York	AOC-43-1-4	AOC-43-2-4	AOC-43-3-4	AOC-43-4-4	AOC-43-5-4	AOC-43-6-6	AOC-43-7-6	AOC-43-8-4	AOC-43-9-7
Lab Sample Number	TAGM	369409	369410	369411	369412	369413	369414	369415	369416	369417
Sampling Date	Rec. Soil	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50.0
VOLATILE COMPOUNDS (GC/MS)										
Chloromethane	**NA**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Bromomethane	**NA**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
VinylChloride	**0.2**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.17 J
Chloroethane	**1.9**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
MethyleneChloride	**0.1**	0.0032 U	0.0008 J	0.0016 J	0.001 J	0.0014 J	0.0035 U	0.0034 U	0.0008 J	0.44 U
Acetone	**0.2**	0.026	0.017	0.027	0.027	0.033	0.092	0.055	0.014	0.73 U
CarbonDisulfide	**2.7**	0.0053	0.0053 U	0.0014 J	0.0014 J	0.0014 J	0.0035 J	0.0009 J	0.0006 J	0.73 U
1,1-Dichloroethene	**0.4**	0.0021 U	0.0021 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U	0.29 U
1,1-Dichloroethane	**0.2**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
trans-1,2-Dichloroethene	**0.3**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
cis-1,2-Dichloroethene	**NA**	0.0053 U	0.0053 U	0.0004 J	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0006 J	0.5 J
Chloroform	**0.3**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
1,2-Dichloroethane	**0.1**	0.0021 U	0.0021 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U	0.29 U
2-Butanone	**0.3**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0072	0.0056 U	0.0052 U	0.73 U
1,1,1-Trichloroethane	**0.8**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
CarbonTetrachloride	**0.6**	0.0021 U	0.0021 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U	0.29 U
Bromodichloromethane	**NA**	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.001 U	0.15 U
1,2-Dichloropropane	**NA**	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.001 U	0.15 U
cis-1,3-Dichloropropene	**NA**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Trichloroethene	**0.7**	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.0005 J	0.56
Dibromochloromethane	**NA**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
1,1,2-Trichloroethane	**NA**	0.0032 U	0.0032 U	0.0033 U	0.0034 U	0.0034 U	0.0035 U	0.0034 U	0.0031 U	0.44 U
Benzene	**0.06**	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.001 U	0.15 U
trans-1,3-Dichloropropene	**NA**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Bromoform	**NA**	0.0051	0.0042 U	0.0027 J	0.0049	0.0059	0.0046 U	0.0027 J	0.013	0.58 U
4-Methyl-2-Pentanone	**1**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
2-Hexanone	**NA**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Tetrachloroethene	**1.4**	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.001 U	0.2
1,1,2,2-Tetrachloroethane	**0.6**	0.001 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.001 U	0.15 U
Toluene	**1.5**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Chlorobenzene	**1.7**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Ethylbenzene	**5.5**	0.0042 U	0.0042 U	0.0044 U	0.0046 U	0.0045 U	0.0046 U	0.0045 U	0.0041 U	0.58 U
Styrene	**NA**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Xylene(Total)	**1.2**	0.0053 U	0.0053 U	0.0055 U	0.0057 U	0.0056 U	0.0058 U	0.0056 U	0.0052 U	0.73 U
Total Confident Conc. VOAs (s)		0.036	0.017	0.027	0.032	0.039	0.099	0.055	0.027	0.76
Total Estimated Conc. VOA TICs (s)		0	0	0	0	0	0	0	0.0053	0

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 11
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 43

Sample ID	New York	AOC-43-1-4	AOC-43-2-4	AOC-43-3-4	AOC-43-4-4	AOC-43-5-4	AOC-43-6-6	AOC-43-7-6	AOC-43-8-4	AOC-43-9-7
Lab Sample Number	TAGM	369409	369410	369411	369412	369413	369414	369415	369416	369417
Sampling Date	Rec. Soil	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEMIVOLATILE COMPOUNDS (GC/MS)										
Phenol	**0.030 or MDL**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2-Chlorophenol	**0.8**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2-Methylphenol	**0.100 or MDL**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
4-Methylphenol	**0.9**	0.011 J	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2-Nitrophenol	**0.330 or MDL**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2,4-Dimethylphenol	**NA**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2,4-Dichlorophenol	**0.4**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
4-Chloro-3-methylphenol	**0.240 or MDL**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2,4,6-Trichlorophenol	**NA**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2,4,5-Trichlorophenol	**0.1**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2,4-Dinitrophenol	**0.200 or MDL**	1.5 U	1.5 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U	1.4 U	2 U
4-Nitrophenol	**0.100 or MDL**	1.5 U	1.5 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U	1.4 U	2 U
4,6-Dinitro-2-methylphenol	**NA**	1.5 U	1.5 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U	1.4 U	2 U
Pentachlorophenol	**1 or MDL**	1.5 U	1.5 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U	1.4 U	2 U
bis(2-Chloroethyl)ether	**NA**	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.04 U	0.039 U	0.036 U	0.05 U
1,3-Dichlorobenzene	**1.6**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
1,4-Dichlorobenzene	**8.5**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
1,2-Dichlorobenzene	**7.9**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
bis(2-chloroisopropyl)ether	**NA**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
N-Nitroso-di-n-propylamine	**NA**	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.04 U	0.039 U	0.036 U	0.05 U
Hexachloroethane	**NA**	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.04 U	0.039 U	0.036 U	0.05 U
Nitrobenzene	**0.200 or MDL**	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.04 U	0.039 U	0.036 U	0.05 U
Isophorone	**4.4**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
bis(2-Chloroethoxy)methane	**NA**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
1,2,4-Trichlorobenzene	**3.4**	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.04 U	0.039 U	0.036 U	0.05 U
Naphthalene	**13**	0.089 J	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
4-Chloroaniline	**0.220 or MDL**	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
Hexachlorobutadiene	**NA**	0.074 U	0.074 U	0.075 U	0.078 U	0.078 U	0.081 U	0.078 U	0.072 U	0.099 U
2-Methylnaphthalene	**36.400**	0.12 J	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 11
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 43

Sample ID	New York	AOC-43-1-4	AOC-43-2-4	AOC-43-3-4	AOC-43-4-4	AOC-43-5-4	AOC-43-6-6	AOC-43-7-6	AOC-43-8-4	AOC-43-9-7
Lab Sample Number	TAGM	369409	369410	369411	369412	369413	369414	369415	369416	369417
Sampling Date	Rec. Soil	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50.0
Hexachlorocyclopentadiene	NA	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2-Chloronaphthalene	NA	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2-Nitroaniline	0.430 or MDL	0.74 U	0.74 U	0.75 U	0.78 U	0.78 U	0.81 U	0.78 U	0.72 U	0.99 U
Dimethylphthalate	2.0	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
Acenaphthylene	50	0.025 J	0.37 U	0.37 U	0.39 U	0.39 U	0.046 J	0.39 U	0.36 U	0.5 U
2,6-Dinitrotoluene	1.0	0.074 U	0.074 U	0.075 U	0.078 U	0.078 U	0.081 U	0.078 U	0.072 U	0.099 U
3-Nitroaniline	.500 or MDL	0.74 U	0.74 U	0.75 U	0.78 U	0.78 U	0.81 U	0.78 U	0.72 U	0.99 U
Acenaphthene	50	0.032 J	0.37 U	0.37 U	0.39 U	0.39 U	0.023 J	0.39 U	0.36 U	0.5 U
Dibenzofuran	6.2	0.044 J	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
2,4-Dinitrotoluene	NA	0.074 U	0.074 U	0.075 U	0.078 U	0.078 U	0.081 U	0.078 U	0.072 U	0.099 U
Diethylphthalate	7.1	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
4-Chlorophenyl-phenylether	NA	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
Fluorene	50	0.029 J	0.37 U	0.37 U	0.39 U	0.39 U	0.025 J	0.39 U	0.36 U	0.5 U
4-Nitroaniline	NA	0.74 U	0.74 U	0.75 U	0.78 U	0.78 U	0.81 U	0.78 U	0.72 U	0.99 U
N-Nitrosodiphenylamine	NA	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
4-Bromophenyl-phenylether	NA	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
Hexachlorobenzene	0.410	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.04 U	0.039 U	0.036 U	0.05 U
Phenanthrene	50	0.16 J	0.37 U	0.37 U	0.019 J	0.39 U	0.26 J	0.39 U	0.36 U	0.5 U
Anthracene	50	0.04 J	0.37 U	0.37 U	0.39 U	0.39 U	0.073 J	0.39 U	0.36 U	0.5 U
Carbazole	NA	0.023 J	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
Di-n-butylphthalate	8.1	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
Fluoranthene	50	0.13 J	0.37 U	0.37 U	0.053 J	0.39 U	0.48	0.014 J	0.36 U	0.5 U
Pyrene	50	0.14 J	0.37 U	0.37 U	0.043 J	0.39 U	0.51	0.013 J	0.36 U	0.5 U
Butylbenzylphthalate	50	0.21 J	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
3,3'-Dichlorobenzidine	NA	0.74 U	0.74 U	0.75 U	0.78 U	0.78 U	0.81 U	0.78 U	0.72 U	0.99 U
Benzo(a)anthracene	0.224 or MDL	0.064	0.037 U	0.037 U	0.046	0.039 U	0.23	0.039 U	0.036 U	0.05 U
Chrysene	0.4	0.068 J	0.37 U	0.37 U	0.038 J	0.39 U	0.24 J	0.39 U	0.36 U	0.5 U
bis(2-Ethylhexyl)phthalate	50	2.9	0.076 J	0.087 J	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.1 J
Di-n-octylphthalate	50	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.4 U	0.39 U	0.36 U	0.5 U
Benzo(b)fluoranthene	0.22 or MDL	0.14	0.037 U	0.037 U	0.058	0.039 U	0.34	0.039 U	0.036 U	0.05 U
Benzo(k)fluoranthene	0.22 or MDL	0.058	0.037 U	0.037 U	0.028 J	0.039 U	0.17	0.039 U	0.036 U	0.05 U
Benzo(a)pyrene	0.061 or MDL	0.088	0.037 U	0.037 U	0.044	0.039 U	0.26	0.039 U	0.036 U	0.05 U
Indeno(1,2,3-cd)pyrene	3.2	0.15	0.037 U	0.037 U	0.029 J	0.039 U	0.12	0.039 U	0.036 U	0.05 U
Dibenz(a,h)anthracene	0.014 or MDL	0.036	0.037 U	0.037 U	0.039 U	0.039 U	0.03 J	0.039 U	0.036 U	0.05 U
Benzo(g,h,i)perylene	50	0.15 J	0.37 U	0.37 U	0.026 J	0.39 U	0.093 J	0.39 U	0.36 U	0.5 U
Total Confident Conc. BNAs (s)		3.438	0	0	0.148	0	2.11	0	0	0
Total Estimated Conc. BNA TICs (s)		0.57	0	0	0	0	21.36	0	0	0.52

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 11
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 43

Sample ID	New York	AOC-43-1-4	AOC-43-2-4	AOC-43-3-4	AOC-43-4-4	AOC-43-5-4	AOC-43-6-6	AOC-43-7-6	AOC-43-8-4	AOC-43-9-7
Lab Sample Number	TAGM	369409	369410	369411	369412	369413	369414	369415	369416	369417
Sampling Date	Rec. Soil	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50.0
PCBs										
Aroclor-1016	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1221	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1232	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1242	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1248	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1254	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1260	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1262	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
Aroclor-1268	#	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
# 1.0 Surface Soils, 10.0 Subsurface Soils Total PCBs										
PESTICIDES										
Aldrin	**0.041**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
alpha-BHC	**0.11**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
beta-BHC	**0.2**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
delta-BHC	**0.3**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
gamma-BHC(Lindane)	**0.06**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Chlordane	**0.54**	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
4,4'-DDD	**2.9**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
4,4'-DDE	**2.1**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
4,4'-DDT	**2.1**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Dieldrin	**0.044**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
EndosulfanI	**0.9**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
EndosulfanII	**0.9**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Endosulfansulfate	**1.0**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Endrin	**0.1**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Endrinaldehyde	**N/A**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Endrinketone	**N/A**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Heptachlor	**0.1**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Heptachlorepoxide	**0.02**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Methoxychlor	**Site Specific**	0.0074 U	0.0075 U	0.0075 U	0.0079 U	0.0078 U	0.0081 U	0.0078 U	0.0073 U	0.01 U
Toxaphene	**N/A**	0.074 U	0.075 U	0.075 U	0.079 U	0.078 U	0.081 U	0.078 U	0.073 U	0.1 U
WET CHEMISTRY										
TotalCyanide - mg/kg	Site Specific	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 11
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 43

Sample ID	Eastern USA	New York	AOC-43-1-4	AOC-43-2-4	AOC-43-3-4	AOC-43-4-4	AOC-43-5-4	AOC-43-6-6	AOC-43-7-6	AOC-43-8-4	AOC-43-9-7
Lab Sample Number	Background (ppm)	TAGM	369409	369410	369411	369412	369413	369414	369415	369416	369417
Sampling Date		Rec. Soil	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02
Matrix		Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50.0
METALS											
Aluminum	**33,000**	**SB**	5750	5600	6950	6460	6760	7780	6540	6330	6120
Antimony	**N/A**	**SB**	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.4 U	1.2 U	1.3 U	18.3
Arsenic	**3 - 12**	**7.5 or SB**	1.1 B	0.74 B	0.82 B	1.4	0.75 U	2.9	16.9	1.2	16.6
Barium	**15 - 600**	**300 or SB**	8.2 B	7.6 B	8.3 B	20.7 B	10.9 B	25.5 B	31.5 B	8.5 B	261
Beryllium	**0 - 1.75**	**0.16 or SB**	0.11 B	0.11 B	0.16 B	0.19 B	0.14 B	0.27 B	0.13 B	0.12 B	0.70
Cadmium	**0.1 - 1**	**1 or SB**	0.089 U	0.089 U	0.090 U	0.094 U	0.093 U	0.097 U	0.085 U	0.087 U	0.25 B
Calcium	**130 - 35000**	**SB**	50800	24700	5800	8520	1760	1190 B	954 B	10700	18300
Chromium	**1.5 - 40**	**10 or SB**	7.9	7.8	9.5	10.5	8.9	11.9	10.6	9.0	35.0
Cobalt	**2.6 - 60**	**30 or SB**	4.4 B	4.4 B	5.6 B	5.4 B	5.3 B	6.4 B	5.3 B	5.1 B	8.5 B
Copper	**1 - 50**	**25 or SB**	6.9	6.9	8.6	8.9	7.5	13.5	11.2	8.9	7560
Iron	**2000 - 550000**	**2000 or SB**	13200	12900	15300	15400	14500	15900	11600	13900	67700
Lead	**200 - 500**	**SB**	2.9	2.7	3.8	4.8	3.0	11.5	5.1	5.2	1030
Magnesium	**100 - 5000**	**SB**	3720	3510	4180	3800	4020	3110	2600	3860	1500
Manganese	**50 - 5000**	**SB**	281	164	146	216	134	127	155	156	848
Mercury	**0.001 - 0.2**	**0.1**	0.019 U	0.019 U	0.019 U	0.02 B	0.019 U	0.02 B	0.02 B	0.04	0.51
Nickel	**0.5 - 25**	**13 or SB**	12.3	12.0	15.3	13.5	14.4	14.9	10.9	14.3	45.2
Potassium	**8500 - 43000**	**SB**	531 B	533 B	680 B	863 B	619 B	743 B	1120	562 B	502 B
Selenium	**0.1 - 3.9**	**2 or SB**	0.93 U	0.94 U	0.94 U	0.99 U	0.98 U	1.0 U	0.89 U	0.91 U	1.4
Silver	**N/A**	**SB**	0.31 U	0.31 U	0.31 U	0.33 U	0.33 U	0.34 U	0.30 U	0.30 U	1.6 B
Sodium	**6000 - 8000**	**SB**	449 B	343 B	179 B	307 B	111 B	320 B	806 B	181 B	587 B
Thallium	**N/A**	**SB**	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.00 U	1.0 U	1.3 U
Vanadium	**1 - 300**	**150 or SB**	7.6 B	7.6 B	9.3 B	11.3 B	8.5 B	14.6	14.3	9.7 B	53.9
Zinc	**9 - 50**	**20 or SB**	31.6	31.5	38.9	42.3	37.0	49.1	26.5	36.7	1870

U - The compound not detected at the indicated concentration.
J - Approximate oncentration
B - Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR - Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 12
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
AOC - 44

Sample ID	New York	AOC-44-40-7	AOC-44-40-9	AOC-44-24-2	AOC-44-22-1	AOC-44-44-25	AOC-44-40-13	AOC-44-14-1	AOC-44-40-4
Lab Sample Number	TAGM	369424	369425	369426	369427	369428	369429	369430	369431
Sampling Date	Rec. Soil	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02	08/14/02
Matrix	Cleanup Objective	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	Criteria (mg/kg)								
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs									
Aroclor-1016	#	0.068 U	0.068 U	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1221	#	0.068 U	0.068 U	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1232	#	0.068 U	0.068 U	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1242	#	0.068 U	0.068 U	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1248	#	0.068 U	0.15	0.067 U	0.11	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1254	#	0.068 U	0.26	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1260	#	0.068 U	0.068 U	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1262	#	0.068 U	0.068 U	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U
Aroclor-1268	#	0.068 U	0.068 U	0.067 U	0.069 U	0.069 U	0.07 U	0.07 U	0.069 U

U - The compound was not detecged at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.

Table 13
Soil Sampling Results
Formerly General Motors Site
Tarrytown New York
AOC 44

Sample ID	New York TAGM	Slab-Base-1	Slab-Base-2	Slab-Base-3	AOC-44-5-1	AOC-44-27-1	AOC-44-40-16	AOC-44-40-FG
Lab Sample Number	Rec. Soil	369749	369750	369751	369432	369433	369434	369435
Sampling Date	Cleanup Objective	08/16/02	08/16/02	08/16/02	08/14/02	08/14/02	08/14/02	08/14/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor								
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs								
Aroclor-1016	#	U	U	U	0.067 U	0.068 U	0.069 U	0.069 U
Aroclor-1221	#	U	U	U	0.067 U	0.068 U	0.069 U	0.069 U
Aroclor-1232	#	U	U	U	0.067 U	0.068 U	0.069 U	0.069 U
Aroclor-1242	#	U	U	U	0.067 U	0.068 U	0.069 U	0.069 U
Aroclor-1248	#	U	U	U	0.067 U	0.068 U	0.069 U	0.069 U
Aroclor-1254	#	0.099	U	U	0.32	0.14	0.069 U	0.069 U
Aroclor-1260	#	U	U	U	0.067 U	0.068 U	0.069 U	0.069 U
Aroclor-1262	#	U	U	U	0.25	0.068 U	0.069 U	0.069 U
Aroclor-1268	#	U	U	U	0.067 U	0.068 U	0.069 U	0.069 U

U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.

Table 14
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
SB - 1 Fills

Sample ID	New York TAGM	SB-1-7	SB-2-7	SB-3-3	SB-4-7	SB-5-7	Fill-F-7	Fill-G-5	Fill-I-5	Duplicate-3	Fill-H-7	Fill-D-7
Lab Sample Number	Rec. Soil	368843	368844	368845	368846	368848	368423	368424	368425	368426	368428	368429
Sampling Date	Cleanup Objective	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	50.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)												
Chloromethane	NA	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Bromomethane	NA	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
VinylChloride	0.2	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Chloroethane	1.9	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
MethyleneChloride	0.1	0.0015 J	0.0042 U	0.0036 U	0.0006 J	0.35 U	0.0014 J	0.0016 J	0.0016 J	0.0017 J	0.0015 J	0.0028 J
Acetone	0.2	0.22	0.15	0.0060 U	0.088	0.58 U	0.054	0.0058 U	0.0053 U	0.0052 U	0.087	0.11
CarbonDisulfide	2.7	0.0031 J	0.0013 J	0.012	0.0025 J	0.58 U	0.006	0.0015 J	0.0018 J	0.0017 J	0.0017 J	0.0033 J
1,1-Dichloroethene	0.4	0.0024 U	0.0028 U	0.0024 U	0.0022 U	0.23 U	0.0021 U	0.0023 U	0.0021 U	0.0021 U	0.0023 U	0.0025
1,1-Dichloroethane	0.2	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
trans-1,2-Dichloroethene	0.3	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
cis-1,2-Dichloroethene	NA	0.0060 U	0.0016 J	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0006 J	0.0006 J	0.0008 J	0.006 U
Chloroform	0.3	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
1,2-Dichloroethane	0.1	0.0024 U	0.0028 U	0.0024 U	0.0022 U	0.23 U	0.0021 U	0.0023 U	0.0021 U	0.0021 U	0.0023 U	0.0024 U
2-Butanone	0.3	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
1,1,1-Trichloroethane	0.8	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0006 J	0.0007 J	0.0057 U	0.006 U
CarbonTetrachloride	0.6	0.0024 U	0.0028 U	0.0024 U	0.0022 U	0.23 U	0.0021 U	0.0023 U	0.0021 U	0.0021 U	0.0023 U	0.0024 U
Bromodichloromethane	NA	0.0012 U	0.0014 U	0.0012 U	0.0011 U	0.12 U	0.0011 U	0.0012 U	0.001 U	0.001 U	0.0011 U	0.0012 U
1,2-Dichloropropane	NA	0.0012 U	0.0014 U	0.0012 U	0.0011 U	0.12 U	0.0011 U	0.0012 U	0.001 U	0.001 U	0.0011 U	0.0012 U
cis-1,3-Dichloropropene	NA	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Trichloroethene	0.7	0.0012 U	0.0014 U	0.0012 U	0.0011 U	0.12 U	0.0011 U	0.0012 U	0.001 U	0.001 U	0.0011 U	0.0012 U
Dibromochloromethane	NA	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0058 U	0.0052 U	0.0057 U	0.006 U
1,1,2-Trichloroethane	NA	0.0036 U	0.0042 U	0.0036 U	0.0033 U	0.35 U	0.0032 U	0.0034 U	0.0032 U	0.0031 U	0.0034 U	0.0036 U
Benzene	0.06	0.0019	0.0023	0.0012 U	0.0037	0.12 U	0.0011 U	0.0012 U	0.001 U	0.001 U	0.0022	0.0012 U
trans-1,3-Dichloropropene	NA	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Bromoform	NA	0.0048 U	0.0023 J	0.0043 J	0.0010 J	0.46 U	0.0078	0.017	0.017	0.025	0.0018 J	0.017
4-Methyl-2-Pentanone	1	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
2-Hexanone	NA	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Tetrachloroethene	1.4	0.0012 U	0.0014 U	0.0012 U	0.0011 U	0.12 U	0.0011 U	0.0012 U	0.008	0.01	0.0011 U	0.0012 U
1,1,2,2-Tetrachloroethane	0.6	0.0012 U	0.0014 U	0.0012 U	0.0011 U	0.12 U	0.0011 U	0.0012 U	0.001 U	0.001 U	0.0011 U	0.0012 U
Toluene	1.5	0.0066	0.0026 J	0.0060 U	0.0032 J	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0012 J	0.006 U
Chlorobenzene	1.7	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Ethylbenzene	5.5	0.0048 U	0.0056 U	0.0048 U	0.0044 U	0.46 U	0.0043 U	0.0046 U	0.0042 U	0.0041 U	0.0045 U	0.0048 U
Styrene	NA	0.0060 U	0.0070 U	0.0060 U	0.0055 U	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Xylene(Total)	1.2	0.0060 U	0.0070 U	0.0060 U	0.0009 J	0.58 U	0.0054 U	0.0058 U	0.0053 U	0.0052 U	0.0057 U	0.006 U
Total Confident Conc. VOAs (s)		0.2	0.2	0.0	0.1	0	0.068	0.017	0.025	0.035	0.089	0.13
Total Estimated Conc. VOA TICs (s)		5.0	0.0	0	0.0	435	0.013	0.018	0.023	0.046	0.0064	0.418

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 14
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
SB - 1 Fills

Sample ID	New York TAGM	SB-1-7	SB-2-7	SB-3-3	SB-4-7	SB-5-7	Fill-F-7	Fill-G-5	Fill-I-5	Duplicate-3	Fill-H-7	Fill-D-7
Lab Sample Number	Rec. Soil	368843	368844	368845	368846	368848	368423	368424	368425	368426	368428	368429
Sampling Date	Cleanup Objective	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50.0
SEMIVOLATILE COMPOUNDS (GC/MS)												
Phenol	**0.030 or MDL**	0.4 U	0.051 J	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2-Chlorophenol	**0.8**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2-Methylphenol	**0.100 or MDL**	0.4 U	0.48 U	0.41 U	0.026 J	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
4-Methylphenol	**0.9**	0.71	0.48 U	0.41 U	0.047 J	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.022 J	20 U
2-Nitrophenol	**0.330 or MDL**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2,4-Dimethylphenol	**NA**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2,4-Dichlorophenol	**0.4**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
4-Chloro-3-methylphenol	**0.240 or MDL**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2,4,6-Trichlorophenol	**NA**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2,4,5-Trichlorophenol	**0.1**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2,4-Dinitrophenol	**0.200 or MDL**	1.6 U	1.9 U	1.6 U	1.5 U	1.6 U	1.5 U	1.6 U	2.8 U	1.4 U	1.6 U	81 U
4-Nitrophenol	**0.100 or MDL**	1.6 U	1.9 U	1.6 U	1.5 U	1.6 U	1.5 U	1.6 U	2.8 U	1.4 U	1.6 U	81 U
4,6-Dinitro-2-methylphenol	**NA**	1.6 U	1.9 U	1.6 U	1.5 U	1.6 U	1.5 U	1.6 U	2.8 U	1.4 U	1.6 U	81 U
Pentachlorophenol	**1 or MDL**	1.6 U	1.9 U	1.6 U	1.5 U	1.6 U	1.5 U	1.6 U	2.8 U	1.4 U	1.6 U	81 U
bis(2-Chloroethyl)ether	**NA**	0.04 U	0.048 U	0.041 U	0.038 U	0.041 U	0.037 U	0.04 U	0.071 U	0.035 U	0.04 U	2 U
1,3-Dichlorobenzene	**1.6**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
1,4-Dichlorobenzene	**8.5**	0.4 U	0.48 U	0.41 U	0.0094 J	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
1,2-Dichlorobenzene	**7.9**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
bis(2-chloroisopropyl)ether	**NA**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
N-Nitroso-di-n-propylamine	**NA**	0.04 U	0.048 U	0.041 U	0.038 U	0.041 U	0.037 U	0.04 U	0.071 U	0.035 U	0.04 U	2 U
Hexachloroethane	**NA**	0.04 U	0.048 U	0.041 U	0.038 U	0.041 U	0.037 U	0.04 U	0.071 U	0.035 U	0.04 U	2 U
Nitrobenzene	**0.200 or MDL**	0.04 U	0.048 U	0.041 U	0.038 U	0.041 U	0.037 U	0.04 U	0.071 U	0.035 U	0.04 U	2 U
Isophorone	**4.4**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
bis(2-Chloroethoxy)methane	**NA**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
1,2,4-Trichlorobenzene	**3.4**	0.01 U	0.048 U	0.041 U	0.038 U	0.041 U	0.037 U	0.04 U	0.071 U	0.035 U	0.04 U	2 U
Naphthalene	**13**	1.1	0.026 J	0.29 J	2.5	0.12 J	0.23 J	0.4 U	0.71 U	0.35 U	0.5	5.6 J
4-Chloroaniline	**0.220 or MDL**	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
Hexachlorobutadiene	**NA**	0.08 U	0.096 U	0.081 U	0.076 U	0.082 U	0.074 U	0.08 U	0.14 U	0.07 U	0.079 U	4 U
2-Methylnaphthalene	**36.400**	0.88	0.023 J	0.33 J	0.73	0.23 J	0.15 J	0.4 U	0.71 U	0.35 U	0.62	7.6 J

U-The compound was not detected at the indicated concentration.
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NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 14
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
SB - 1 Fills

Sample ID	New York TAGM	SB-1-7	SB-2-7	SB-3-3	SB-4-7	SB-5-7	Fill-F-7	Fill-G-5	Fill-I-5	Duplicate-3	Fill-H-7	Fill-D-7
Lab Sample Number	Rec. Soil	368843	368844	368845	368846	368848	368423	368424	368425	368426	368428	368429
Sampling Date	Cleanup Objective	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	50.0
Hexachlorocyclopentadiene	NA	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2-Chloronaphthalene	NA	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
2-Nitroaniline	0.430 or MDL	0.8 U	0.96 U	0.81 U	0.76 U	0.82 U	0.74 U	0.8 U	1.4 U	0.7 U	0.79 U	40 U
Dimethylphthalate	2.0	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
Acenaphthylene	50	0.19 J	0.48 U	0.41 U	0.11 J	0.019 J	0.07 J	0.4 U	0.71 U	0.022 J	0.43	4.5 J
2,6-Dinitrotoluene	1.0	0.08 U	0.096 U	0.081 U	0.076 U	0.082 U	0.074 U	0.08 U	0.14 U	0.07 U	0.079 U	4 U
3-Nitroaniline	.500 or MDL	0.8 U	0.96 U	0.81 U	0.76 U	0.82 U	0.74 U	0.8 U	1.4 U	0.7 U	0.79 U	40 U
Acenaphthene	50	0.24 J	0.48 U	0.031 J	0.39	0.0096 J	1.2	0.4 U	0.71 U	0.35 U	0.66	22
Dibenzofuran	6.2	0.4 J	0.48 U	0.088 J	0.51	0.41 U	0.69	0.4 U	0.71 U	0.35 U	0.55	12 J
2,4-Dinitrotoluene	NA	0.08 U	0.096 U	0.081 U	0.076 U	0.082 U	0.074 U	0.08 U	0.14 U	0.07 U	0.079 U	4 U
Diethylphthalate	7.1	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
4-Chlorophenyl-phenylether	NA	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
Fluorene	50	0.5	0.48 U	0.41 U	0.42	0.017 J	1.3	0.4 U	0.71 U	0.35 U	0.85	28
4-Nitroaniline	NA	0.8 U	0.96 U	0.81 U	0.76 U	0.82 U	0.74 U	0.8 U	1.4 U	0.7 U	0.79 U	40 U
N-Nitrosodiphenylamine	NA	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
4-Bromophenyl-phenylether	NA	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
Hexachlorobenzene	0.410	0.04 U	0.048 U	0.041 U	0.038 U	0.041 U	0.037 U	0.04 U	0.071 U	0.035 U	0.04 U	2 U
Phenanthrene	50	3.7	0.033 J	0.42	3.1	0.056 J	3.8	0.017 J	0.71 U	0.012 J	4.1	160
Anthracene	50	0.61	0.48 U	0.071 J	0.62	0.021 J	1.9	0.4 U	0.71 U	0.0098 J	1.2	48
Carbazole	NA	0.2 J	0.48 U	0.038 J	0.32 J	0.41 U	0.33 J	0.4 U	0.71 U	0.35 U	0.22 J	18 J
Di-n-butylphthalate	8.1	3.7	0.48 U	0.27 J	0.090 J	0.41 U	0.37 U	0.4 U	0.41 J	0.16 J	0.26 J	20 U
Fluoranthene	50	1.9	0.016 J	0.32 J	2.6	0.072 J	5.6	0.034 J	0.71 U	0.03 J	4.4	170
Pyrene	50	1.9	0.023 J	0.36 J	2.5	0.11 J	5	0.031 J	0.71 U	0.029 J	5.4	160
Butylbenzylphthalate	50	0.4 U	0.48 U	2.6	0.10 J	0.41 U	0.37 U	0.4 U	14	4.7	0.4 U	20 U
3,3'-Dichlorobenzidine	NA	0.8 U	0.96 U	0.81 U	0.76 U	0.82 U	0.74 U	0.8 U	1.4 U	0.7 U	0.79 U	40 U
Benzo(a)anthracene	0.224 or MDL	0.98	0.048 U	0.20	1.2	0.038 J	2.7	0.029 J	0.071 U	0.028 J	2.6	85
Chrysene	0.4	1	0.48 U	0.28 J	1.4	0.030 J	2.6	0.02 J	0.71 U	0.019 J	2.8	99
bis(2-Ethylhexyl)phthalate	50	0.25 J	0.48 U	0.10 J	0.21 J	0.41 U	0.37 U	0.4 U	0.29 J	0.17 J	0.86	20 U
Di-n-octylphthalate	50	0.4 U	0.48 U	0.41 U	0.38 U	0.41 U	0.37 U	0.4 U	0.71 U	0.35 U	0.4 U	20 U
Benzo(b)fluoranthene	0.22 or MDL	1.1	0.012 J	0.29	1.4	0.035 J	2.9	0.025 J	0.071 U	0.03 J	3.4	98
Benzo(k)fluoranthene	0.22 or MDL	0.28	0.048 U	0.096	0.59	0.012 J	1.2	0.04 U	0.071 U	0.012 J	1.5	34
Benzo(a)pyrene	0.061 or MDL	0.55	0.048 U	0.18	0.94	0.025 J	2.3	0.019 J	0.071 U	0.02 J	2.2	74
Indeno(1,2,3-cd)pyrene	3.2	0.22	0.048 U	0.11	0.46	0.014 J	1.4	0.04 U	0.071 U	0.024 J	0.76	52
Dibenz(a,h)anthracene	0.014 or MDL	0.092	0.048 U	0.047	0.15	0.041 U	0.35	0.04 U	0.071 U	0.035 U	0.22	14
Benzo(g,h,i)perylene	50	0.26 J	0.48 U	0.10 J	0.46	0.015 J	1.2	0.4 U	0.71 U	0.032 J	0.64	46
Total Confident Conc. BNAs (s)			0	3.9	19	0	34.14	0	14	4.7	33.69	1070
Total Estimated Conc. BNA TICs (s)			9.0	4.9	12	35	8.59	0.32	2.54	0.29	33.37	401

U-The compound was not detected at the indicated concentration.
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NR-Not analyzed.
Surface 1.0 ppm
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Table 14
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Former General Motors Site
Tarrytown, New York
SB - 1 Fills

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Lab Sample Number	Rec. Soil	368843	368844	368845	368846	368848	368423	368424	368425	368426	368428	368429
Sampling Date	Cleanup Objective	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCBs												
Aroclor-1016	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1221	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1232	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1242	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1248	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1254	#	0.13	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1260	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1262	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
Aroclor-1268	#	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.081 U
# 1.0 Surface Soils, 10.0 Subsurface Soils Total PCBs												
PESTICIDES												
Aldrin	**0.041**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
alpha-BHC	**0.11**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
beta-BHC	**0.2**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
delta-BHC	**0.3**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
gamma-BHC(Lindane)	**0.06**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Chlordane	**0.54**	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.41 U
4,4'-DDD	**2.9**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
4,4'-DDE	**2.1**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
4,4'-DDT	**2.1**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Dieldrin	**0.044**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
EndosulfanI	**0.9**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
EndosulfanII	**0.9**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Endosulfansulfate	**1.0**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Endrin	**0.1**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Endrinaldehyde	**N/A**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Endrinketone	**N/A**	0.024	0.0096 U	0.0082 U	0.013	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.19 P*
Heptachlor	**0.1**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Heptachlorepoxide	**0.02**	0.0080 U	0.0096 U	0.0082 U	0.0076 U	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.041 U
Methoxychlor	**Site Specific**	0.059	0.0096 U	0.0082 U	0.032	0.0082 U	0.0075 U	0.0081 U	0.0071 U	0.0071 U	0.008 U	0.32 P*
Toxaphene	**N/A**	0.080 U	0.096 U	0.082 U	0.076 U	0.082 U	0.075 U	0.081 U	0.071 U	0.071 U	0.08 U	0.41 U
WET CHEMISTRY												
TotalCyanide - mg/kg	**Site Specific**	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 14
Soil Sampling Results
Former General Motors Site
Tarrytown, New York
SB - 1 Fills

Sample ID	Eastern USA	New York TAGM	SB-1-7		SB-2-7		SB-3-3		SB-4-7		SB-5-7		Fill-F-7		Fill-G-5		Fill-I-5		Duplicate-3		Fill-H-7		Fill-D-7	
Lab Sample Number	Background (ppm)	Rec. Soil	368843		368844		368845		368846		368848		368423		368424		368425		368426		368428		368429	
Sampling Date		Cleanup Objective	08/12/02		08/12/02		08/12/02		08/12/02		08/13/02		08/08/02		08/08/02		08/08/02		08/08/02		08/08/02		08/08/02	
Matrix		Criteria (mg/kg)	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			1.0		1.0		1.0		1.0		50.0		1.0		1.0		1.0		1.0		1.0		1.0	
METALS																								
Aluminum	33,000	SB	4090		12800		7740		4780		7990		7860		7270		7040		7130		5420		6270	
Antimony	N/A	SB	230		180		9.3		4.8		0.96	U	1.3	U	1.3	U	1.5	B	1.1	U	545		11.5	
Arsenic	3 - 12	7.5 or SB	38.9		28.2		16.8		4.4		4.5		2.2		1.6		2.0		1.5		67.1		5.0	
Barium	15 - 600	300 or SB	3920		5270		397		174		37.5	B	36.8	B	59.1		26.9	B	27.0	B	12800		509	
Beryllium	0 - 1.75	0.16 or SB	0.65	B	0.85	B	0.51		0.20	B	0.36	B	0.32	B	0.22	B	0.24	B	0.24	B	0.38	B	0.35	B
Cadmium	0.1 - 1	1 or SB	0.0		19.0		3.4		0.28	B	0.098	U	0.089	U	0.088	U	0.077	U	0.077	U	9.4		7.5	
Calcium	130 - 35000	SB	15400		15300		53600		68100		2740		8280		6010		8030		8530		26600		11400	
Chromium	1.5 - 40	10 or SB	59.9		104		32.7		13.5		16.4		12.8		12.0		10.5		10.1		96.2		22.2	
Cobalt	2.8 - 60	30 or SB	12.0	B	24.9	B	5.5	B	15.7	B	7.1	B	6.0	B	5.7	B	5.3	B	5.2	B	10.1	B	6.1	B
Copper	1 - 50	25 or SB	509		413		59.6		29.3		12.3		12.4		19.6		9.9		10.9		321		61.5	
Iron	2000 - 550000	2000 or SB	54600		180100		23800		11000		20200		16200		16500		16600		16400		128400		20200	
Lead	200 - 500	SB	7580		24600		963		514		32.1		11.6		19.2		74.9		33.3		30900		604	
Magnesium	100 - 5000	SB	1880		3170	B	10500		6360		4010		5030		4300		4070		4260		5780		2880	
Manganese	50 - 5000	SB	397		776		323		345		240		256		159		180		168		745		387	
Mercury	0.001 - 0.2	0.1	0.89		0.04	B	0.18		0.06		0.05		0.04		0.020	U	0.02	B	0.02	B	0.33		0.25	
Nickel	0.5 - 25	13 or SB	42.1		141		14.5		23.3		15.8		14.9		15.8		14.2		14.3		65.0		21.7	
Potassium	8500 - 43000	SB	299	B	402	B	978	B	1070	B	1170		1230		821	B	887	B	705	B	606	B	846	B
Selenium	0.1 - 3.9	2 or SB	4.3	U	5.1	U	0.86	U	1.2	U	0.96	U	0.94	U	0.92	U	0.81	U	0.81	U	2.7		0.93	U
Silver	N/A	SB	1.8	B	2.6	B	0.16	U	0.22	U	0.17	U	0.31	U	0.31	U	0.27	U	0.27	U	3.4		0.31	U
Sodium	6000 - 8000	SB	3030		473	U	179	B	913	B	431	B	140	B	88.8	U	105	B	104	B	359	B	87.2	U
Thallium	N/A	SB	1.4	U	5.8	U	0.98	U	1.4	U	1.1	U	1.1	U	1.0	U	0.91	U	0.90	U	2.5	U	1.0	U
Vanadium	1 - 300	150 or SB	21.5		20.6	B	23.2		12.9	B	20.6		15.2		10.0	B	9.9	B	10.2		28.8		15.0	
Zinc	9 - 50	20 or SB	1090		13400		445		176		60.0		47.1		51.7		46.8		41.9		708		566	

U-The compound not detected at the indicated concentration.
J-Approximate concentration
B-Analyte found in the laboratory blank as well as the sample.
SB - Site Background
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 15
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
Fills

++++++++++++++++++	New York TAGM	Fill-C-6	Fill-J-6	Fill-L-6	Fill-E	BH-1-6	BH-2-7	BH-3-6	BH-4-5	BH-5-6
Lab Sample Number	Rec. Soil	368430	368437	368419	367965	367940	367941	367942	367943	367944
Sampling Date	Cleanup Objective	08/08/02	08/09/02	08/15/02	08/08/02	08/06/02	08/06/02	08/06/02	08/06/02	08/06/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS (GC/MS)										
Chloromethane	NA	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Bromomethane	NA	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
VinylChloride	0.2	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Chloroethane	1.9	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
MethyleneChloride	0.1	0.0014 J	0.0023 J	0.0031 U	0.0029 U	0.001 J	0.0012 J	0.0018 J	0.0009 J	0.0036 U
Acetone	0.2	0.041	0.0054 U	0.03	0.015	0.016	0.016	0.065	0.018	0.006 U
CarbonDisulfide	2.7	0.008	0.0054 U	0.0009 J	0.0047 J	0.001 J	0.0007 J	0.0058 J	0.0012 J	0.0033 J
1,1-Dichloroethene	0.4	0.0022 U	0.0022 U	0.0021 U	0.002 U	0.0006 J	0.0007 J	0.0008 J	0.0021 U	0.0024 U
1,1-Dichloroethane	0.2	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
trans-1,2-Dichloroethene	0.3	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
cis-1,2-Dichloroethene	NA	0.0056 U	0.0054 U	0.0004 J	0.0049 U	0.0005 J	0.0008 J	0.0014 J	0.0053 U	0.006 U
Chloroform	0.3	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
1,2-Dichloroethane	0.1	0.0022 U	0.0022 U	0.0021 U	0.002 U	0.0025 U	0.0025 U	0.0026 U	0.0021 U	0.0024 U
2-Butanone	0.3	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
1,1,1-Trichloroethane	0.8	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
CarbonTetrachloride	0.6	0.0022 U	0.0022 U	0.0021 U	0.002 U	0.0025 U	0.0025 U	0.0026 U	0.0021 U	0.0024 U
Bromodichloromethane	NA	0.0011 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0012 U	0.0013 U	0.001 U	0.0012 U
1,2-Dichloropropane	NA	0.0011 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0012 U	0.0013 U	0.001 U	0.0012 U
cis-1,3-Dichloropropene	NA	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Trichloroethene	0.7	0.0011 U	0.0011 U	0.001 U	0.001 U	0.0004 J	0.0012 U	0.0004 J	0.001 U	0.0012 U
Dibromochloromethane	NA	0.001 J	0.0054 U	0.0052 U	0.0049 U	0.001 J	0.0004 J	0.0004 J	0.0005 J	0.006 U
1,1,2-Trichloroethane	NA	0.0033 U	0.0032 U	0.0031 U	0.0029 U	0.0038 U	0.0037 U	0.0039 U	0.0032 U	0.0036 U
Benzene	0.06	0.0007 J	0.0011 U	0.001 U	0.001 U	0.0006 J	0.0012 U	0.0013 U	0.0009 J	0.0012 U
trans-1,3-Dichloropropene	NA	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Bromoform	NA	0.019	0.012	0.0042	0.0095	0.021	0.012	0.011	0.014	0.0046 J
4-Methyl-2-Pentanone	1	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
2-Hexanone	NA	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Tetrachloroethene	1.4	0.0011 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0012 U	0.0013 U	0.001 U	0.0012 U
1,1,2,2-Tetrachloroethane	0.6	0.0011 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0012 U	0.0013 U	0.001 U	0.0012 U
Toluene	1.5	0.001 J	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Chlorobenzene	1.7	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Ethylbenzene	5.5	0.0045 U	0.0043 U	0.0042 U	0.0039 U	0.005 U	0.005 U	0.0052 U	0.0042 U	0.0048 U
Styrene	NA	0.0056 U	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Xylene(Total)	1.2	0.0009 J	0.0054 U	0.0052 U	0.0049 U	0.0063 U	0.0062 U	0.0065 U	0.0053 U	0.006 U
Total Confident Conc. VOAs (s)		0.088	0.012	0.034	0.025	0.037	0.0028	0.076	0.032	0
Total Estimated Conc. VOA TICs (s)		0.103	0	0	0	0	0	0	0	0

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 15
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
Fills

++++++++++++++++++	New York TAGM	Fill-C-6	Fill-J-6	Fill-L-6	Fill-E	BH-1-6	BH-2-7	BH-3-6	BH-4-5	BH-5-6
Lab Sample Number	Rec. Soil	368430	368437	368419	367965	367940	367941	367942	367943	367944
Sampling Date	Cleanup Objective	08/08/02	08/09/02	08/15/02	08/08/02	08/06/02	08/06/02	08/06/02	08/06/02	08/06/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEMIVOLATILE COMPOUNDS (GC/MS)										
Phenol	0.030 or MDL	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2-Chlorophenol	0.8	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2-Methylphenol	0.100 or MDL	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
4-Methylphenol	0.9	0.073 J	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2-Nitrophenol	0.330 or MDL	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2,4-Dimethylphenol	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2,4-Dichlorophenol	0.4	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
4-Chloro-3-methylphenol	0.240 or MDL	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2,4,6-Trichlorophenol	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2,4,5-Trichlorophenol	0.1	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2,4-Dinitrophenol	0.200 or MDL	7.4 U	1.4 U	1.4 U	1.4 U	1.7 U	1.7 U	1.8 U	1.4 U	1.6 U
4-Nitrophenol	0.100 or MDL	7.4 U	1.4 U	1.4 U	1.4 U	1.7 U	1.7 U	1.8 U	1.4 U	1.6 U
4,6-Dinitro-2-methylphenol	NA	7.4 U	1.4 U	1.4 U	1.4 U	1.7 U	1.7 U	1.8 U	1.4 U	1.6 U
Pentachlorophenol	1 or MDL	7.4 U	1.4 U	1.4 U	1.4 U	1.7 U	1.7 U	1.8 U	1.4 U	1.6 U
bis(2-Chloroethyl)ether	NA	0.19 U	0.036 U	0.036 U	0.034 U	0.042 U	0.042 U	0.044 U	0.036 U	0.041 U
1,3-Dichlorobenzene	1.6	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
1,4-Dichlorobenzene	8.5	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
1,2-Dichlorobenzene	7.9	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
bis(2-chloroisopropyl)ether	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
N-Nitroso-di-n-propylamine	NA	0.19 U	0.036 U	0.036 U	0.034 U	0.042 U	0.042 U	0.044 U	0.036 U	0.041 U
Hexachloroethane	NA	0.19 U	0.036 U	0.036 U	0.034 U	0.042 U	0.042 U	0.044 U	0.036 U	0.041 U
Nitrobenzene	0.200 or MDL	0.19 U	0.036 U	0.036 U	0.034 U	0.042 U	0.042 U	0.044 U	0.036 U	0.041 U
Isophorone	4.4	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
bis(2-Chloroethoxy)methane	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
1,2,4-Trichlorobenzene	3.4	0.19 U	0.036 U	0.036 U	0.034 U	0.042 U	0.042 U	0.044 U	0.036 U	0.041 U
Naphthalene	13	0.084 J	0.02 J	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
4-Chloroaniline	0.220 or MDL	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Hexachlorobutadiene	NA	0.37 U	0.072 U	0.071 U	0.068 U	0.084 U	0.084 U	0.088 U	0.071 U	0.082 U
2-Methylnaphthalene	36.400	0.16 J	0.021 J	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 15
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
Fills

++++++++++++++++	New York TAGM	Fill-C-6	Fill-J-6	Fill-L-6	Fill-E	BH-1-6	BH-2-7	BH-3-6	BH-4-5	BH-5-6
Lab Sample Number	Rec. Soil	368430	368437	369419	367965	367940	367941	367942	367943	367944
Sampling Date	Cleanup Objective	08/08/02	08/09/02	08/15/02	08/08/02	08/08/02	08/06/02	08/06/02	08/06/02	08/06/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Hexachlorocyclopentadiene	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2-Chloronaphthalene	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2-Nitroaniline	0.430 or MDL	3.7 U	0.72 U	0.71 U	0.68 U	0.84 U	0.84 U	0.88 U	0.71 U	0.82 U
Dimethylphthalate	2.0	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Acenaphthylene	50	3.4	0.012 J	0.042 J	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.013 J
2,6-Dinitrotoluene	1.0	0.37 U	0.072 U	0.071 U	0.068 U	0.084 U	0.084 U	0.088 U	0.071 U	0.082 U
3-Nitroaniline	.500 or MDL	3.7 U	0.72 U	0.71 U	0.68 U	0.84 U	0.84 U	0.88 U	0.71 U	0.82 U
Acenaphthene	50	0.44 J	0.15 J	0.014 J	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Dibenzofuran	6.2	0.34 J	0.13 J	0.035 J	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
2,4-Dinitrotoluene	NA	0.37 U	0.072 U	0.071 U	0.068 U	0.084 U	0.084 U	0.088 U	0.071 U	0.082 U
Diethylphthalate	7.1	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
4-Chlorophenyl-phenylether	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Fluorene	50	1.2 J	0.2 J	0.043 J	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
4-Nitroaniline	NA	3.7 U	0.72 U	0.71 U	0.68 U	0.84 U	0.84 U	0.88 U	0.71 U	0.82 U
N-Nitrosodiphenylamine	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
4-Bromophenyl-phenylether	NA	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Hexachlorobenzene	0.410	0.19 U	0.036 U	0.036 U	0.034 U	0.042 U	0.042 U	0.44 U	0.036 U	0.041 U
Phenanthrene	50	7.2	2.7	0.36	0.34 U	0.014 J	0.024 J	0.012 J	0.36 U	0.017 J
Anthracene	50	3	0.41	0.2 J	0.34 U	0.42 U	0.012 J	0.44 U	0.36 U	0.01 J
Carbazole	NA	0.34 J	0.4	0.23 J	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Di-n-butylphthalate	8.1	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Fluoranthene	50	12	3.4	1.7	0.34 U	0.039 J	0.048 J	0.026 J	0.36 U	0.041 J
Pyrene	50	12	2.9	1.6	0.34 U	0.04 J	0.075 J	0.032 J	0.36 U	0.047 J
Butylbenzylphthalate	50	1.9 U	0.075 J	0.36 U	0.34 U	0.042 U	0.42 U	0.44 U	0.36 U	0.41 U
3,3'-Dichlorobenzidine	NA	3.7 U	0.72 U	0.71 U	0.68 U	0.84 U	0.84 U	0.88 U	0.71 U	0.82 U
Benzo(a)anthracene	0.224 or MDL	8.8	1.1	0.31	0.034 U	0.035 J	0.044	0.021 J	0.036 U	0.027 J
Chrysene	0.4	9.6	1.5	0.32	0.34 U	0.024 J	0.036 J	0.022 J	0.36 U	0.021 J
bis(2-Ethylhexyl)phthalate	50	1.9 U	0.36 U	0.081 J	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Di-n-octylphthalate	50	1.9 U	0.36 U	0.36 U	0.34 U	0.42 U	0.42 U	0.44 U	0.36 U	0.41 U
Benzo(b)fluoranthene	0.22 or MDL	9.7	1.6	0.67	0.034 U	0.03 J	0.052	0.044 U	0.036 U	0.028 J
Benzo(k)fluoranthene	0.22 or MDL	4.4	0.69	0.29	0.034 U	0.017 J	0.013 J	0.044 U	0.036 U	0.015 J
Benzo(a)pyrene	0.061 or MDL	7.8	0.89	0.1	0.034 U	0.028 J	0.046	0.023 J	0.036 U	0.03 J
Indeno(1,2,3-cd)pyrene	3.2	4.2	0.52	0.097	0.034 U	0.011 J	0.042 U	0.01 J	0.036 U	0.041 U
Dibenz(a,h)anthracene	0.014 or MDL	1.4	0.13	0.036 U	0.034 U	0.042 U	0.042 U	0.044 U	0.036 U	0.041 U
Benzo(g,h,i)perylene	50	3.8	0.42	0.069 J	0.34 U	0.012 J	0.42 U	0.0098 J	0.36 U	0.41 U
Total Confident Conc. BNAs (s)		87.1	16.56	6.047	0	0	0.142	0	0	0
Total Estimated Conc. BNA TICs (s)		32.5	3.55	0.82	0	0	0.38	0	0	0.35

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 15
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
Fills

++++++++++++++++++	New York TAGM	Fill-C-6	Fill-J-6	Fill-L-6	Fill-E	BH-1-6	BH-2-7	BH-3-6	BH-4-5	BH-5-6
Lab Sample Number	Rec. Soil	368430	368437	369419	367965	367940	367941	367942	367943	367944
Sampling Date	Cleanup Objective	08/08/02	08/09/02	08/15/02	08/08/02	08/08/02	08/08/02	08/08/02	08/06/02	08/09/02
Matrix	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCBs										
Aroclor-1016	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1221	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1232	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1242	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1248	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1254	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1260	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1262	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
Aroclor-1268	#	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
PESTICIDES										
Aldrin	0.041	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
alpha-BHC	0.11	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
beta-BHC	0.2	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
delta-BHC	0.3	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
gamma-BHC(Lindane)	0.06	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Chlordane	0.54	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
4,4'-DDD	2.9	0.016	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
4,4'-DDE	2.1	0.0075 U	0.0073 U	0.012	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
4,4'-DDT	2.1	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Dieldrin	0.044	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Endosulfanl	0.9	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
EndosulfanII	0.9	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Endosulfansulfate	1.0	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Endrin	0.1	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Endrinaldehyde	N/A	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Endrinketone	N/A	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Heptachlor	0.1	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Heptachlorepoxide	0.02	0.0075 U	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Methoxychlor	Site Specific	0.1	0.0073 U	0.0072 U	0.0069 U	0.0085 U	0.0084 U	0.0088 U	0.0072 U	0.0082 U
Toxaphene	N/A	0.075 U	0.073 U	0.072 U	0.069 U	0.085 U	0.084 U	0.088 U	0.072 U	0.082 U
WET CHEMISTRY										0
TotalCyanide - mg/kg	Site Specific	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 15
Soil Sampling Results
Formerly General Motors Site
Tarrytown, New York
Fills

Sample ID	Eastern USA	New York TAGM	Fill-C-6	Fill-J-6	Fill-L-6	Fill-E	BH-1-6	BH-2-7	BH-3-6	BH-4-5	BH-5-6
Lab Sample Number	Background (ppm)	Rec. Soil	368430	368437	369419	367965	367940	367941	367942	367943	367944
Sampling Date		Cleanup Objective	08/08/02	08/08/02	08/15/02	08/08/02	08/08/02	08/06/02	08/06/02	08/06/02	08/06/02
Matrix		Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
METALS											
Aluminum	33,000	SB	8090	6900	9520	7490	7320	7100	7340	6980	6460
Antimony	N/A	SB	1.3 U	7.5	1.2 U	0.84 U	1.5 U	1.3 U	1.5 U	3.3	1.4 U
Arsenic	3 - 12	7.5 or SB	3.6	2.6	1.6	2.3	3.5	2.6	5.1	1.7	2.0
Barium	15 - 600	300 or SB	74.8	15.5 B	60.0	9.8 B	32.9 B	28.6 B	30.8 B	148	15.2 B
Beryllium	0 - 1.75	0.16 or SB	0.35 B	0.29 B	0.21 B	0.32 B	0.29 B	0.26 B	0.30 B	0.21 B	0.23 B
Cadmium	0.1 - 1	1 or SB	0.13 B	0.079 U	0.086 U	0.075 U	0.28 B	0.19 B	0.32 B	0.32 B	0.21 B
Calcium	130 - 35000	SB	13600	9610	2700	4250	7830	6560	4690	11700	3670
Chromium	1.5 - 40	10 or SB	13.5	10.0	20.6	9.1	13.2	14.0	17.8	11.6	11.4
Cobalt	2.6 - 60	30 or SB	6.7 B	5.1 B	8.0 B	5.5 B	6.7 B	6.4 B	7.1 B	6.2 B	5.4 B
Copper	1 - 50	25 or SB	23.6	10.2	36.2	10.7	10.8	13.6	19.0	13.0	9.1
Iron	2000 - 550000	2000 or SB	19800	15700	17300	18200	19200	17300	19000	18200	14900
Lead	200 - 500	SB	41.5	159	6.0	4.9	15.3	9.3	15.0	50.3	7.7
Magnesium	100 - 5000	SB	5500	6510	4640	4260	4290	4660	5020	4340	3870
Manganese	50 - 5000	SB	413	174	282	205	263	467	284	225	240
Mercury	0.001 - 0.2	0.1	0.06	0.016 U	0.07	0.017 U	0.08	0.15	0.17	0.03 B	0.12
Nickel	0.5 - 25	13 or SB	15.7	14.0	14.7	14.1	15.1	14.6	15.2	14.3	12.4
Potassium	8500 - 43000	SB	1000 B	702 B	1080	734 B	539 B	901 B	1120 B	373 B	518 B
Selenium	0.1 - 3.9	2 or SB	0.94 U	0.83 U	0.90 U	0.84 U	1.1 U	0.96 U	1.3	0.93 B	1.0 U
Silver	N/A	SB	0.31 U	0.28 U	0.30 U	0.21 U	0.35 U	0.32 U	0.37 U	0.30 U	0.34 U
Sodium	6000 - 8000	SB	210 B	78.1 U	246 B	132 B	400 B	456 B	396 B	118 B	210 B
Thallium	N/A	SB	1.1 U	0.93 U	1.0 U	0.77 U	1.2 U	1.1 U	1.2 U	1.0 U	1.2 U
Vanadium	1 - 300	150 or SB	13.9	12.1	26.8	12.3	15.8	14.4	17.9	11.0	12.3
Zinc	9 - 50	20 or SB	79.0	39.0	34.2	37.7	49.8	47.8	57.2	52.6	41.2

U-The compound not detected at the indicated concentration.
J-Approximate concentration
B-Analyte found in the laboratory blank as well as the sample.
SB-Site Background
NR-Not analyzed.
Surface 1.0 ppm
Subsurface 10.0 ppm

Table 16
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	OW-11	WP-21-1	FB-081202-1	Trip_Blank	WP-34-1	WP-37-1
Lab Sample Number	Water Quality	368860	368861	368862	368863	368864	368865
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)							
Chloromethane	**NA**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
VinylChloride	**2**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MethyleneChloride	**5***	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Acetone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CarbonDisulfide	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.6 J
1,1-Dichloroethene	**5***	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	**7**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	**0.6**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Butanone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CarbonTetrachloride	**5**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromodichloromethane	**?**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	**1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	**1**	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzene	**1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	**?**	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
4-Methyl-2-Pentanone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	**?**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	**5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	**5***	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Styrene	**5***	5.0 U	0.6 J	5.0 U	5.0 U	5.0 U	5.0 U
Xylene(Total)	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident Conc. VOAs (s)		0	0	0	0	0	0
Total Estimated Conc. VOA TICs (s)		0	19	0	0	0	1470

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 16
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	OW-11	WP-21-1	FB-081202-1	Trip_Blank	WP-34-1	WP-37-1
Lab Sample Number	Water Quality	368860	368861	368862	368863	368864	368865
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SEMIVOLATILE COMPOUNDS (GC/MS)							
Phenol	**5***	10 U	13	10 U	NR	10 U	10 U
2-Chlorophenol	**5***	10 U	10 U	10 U	NR	10 U	10 U
2-Methylphenol	**5***	10 U	2.8 J	10 U	NR	10 U	10 U
4-Methylphenol	**5***	10 U	3.1 J	10 U	NR	10 U	10 U
2-Nitrophenol	**5***	10 U	10 U	10 U	NR	10 U	10 U
2,4-Dimethylphenol	**5***	10 U	10 U	10 U	NR	10 U	10 U
2,4-Dichlorophenol	**5***	10 U	10 U	10 U	NR	10 U	10 U
4-Chloro-3-methylphenol	**5***	10 U	10 U	10 U	NR	10 U	10 U
2,4,6-Trichlorophenol	**5***	10 U	10 U	10 U	NR	10 U	10 U
2,4,5-Trichlorophenol	**5***	10 U	10 U	10 U	NR	10 U	10 U
2,4-Dinitrophenol	**5***	40 U	40 U	40 U	NR	40 U	40 U
4-Nitrophenol	**5***	40 U	40 U	40 U	NR	40 U	40 U
4,6-Dinitro-2-methylphenol	**5***	40 U	40 U	40 U	NR	40 U	40 U
Pentachlorophenol	**5***	40 U	40 U	40 U	NR	40 U	40 U
bis(2-Chloroethyl)ether	**1**	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
1,3-Dichlorobenzene	**3**	10 U	10 U	10 U	NR	10 U	10 U
1,4-Dichlorobenzene	**3**	10 U	10 U	10 U	NR	10 U	10 U
1,2-Dichlorobenzene	**3**	10 U	10 U	10 U	NR	10 U	10 U
bis(2-chloroisopropyl)ether	**?**	10 U	10 U	10 U	NR	10 U	10 U
N-Nitroso-di-n-propylamine	**?**	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
Hexachloroethane	**5***	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
Nitrobenzene	**5**	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
Isophorone	**50**	10 U	10 U	10 U	NR	10 U	10 U
bis(2-Chloroethoxy)methane	**5***	10 U	10 U	10 U	NR	10 U	10 U
1,2,4-Trichlorobenzene	**5***	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
Naphthalene	**10**	10 U	4.4 J	10 U	NR	10 U	10 U
4-Chloroaniline	**5***	10 U	10 U	10 U	NR	10 U	10 U
Hexachlorobutadiene	**0.5**	2.0 U	2.0 U	2.0 U	NR	2.0 U	2.0 U
2-Methylnaphthalene	**50**	10 U	0.8 J	10 U	NR	10 U	10 U

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 16
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	OW-11	WP-21-1	FB-081202-1	Trip_Blank	WP-34-1	WP-37-1
Lab Sample Number	Water Quality	368860	368861	368862	368863	368864	368865
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Hexachlorocyclopentadiene	5*	10 U	10 U	10 U	NR	10 U	10 U
2-Chloronaphthalene	10	10 U	10 U	10 U	NR	10 U	10 U
2-Nitroaniline	5*	20 U	20 U	20 U	NR	20 U	20 U
Dimethylphthalate	50	10 U	10 U	10 U	NR	10 U	10 U
Acenaphthylene	20	10 U	10 U	10 U	NR	10 U	10 U
2,6-Dinitrotoluene	5*	2.0 U	2.0 U	2.0 U	NR	2.0 U	2.0 U
3-Nitroaniline	5*	20 U	20 U	20 U	NR	20 U	20 U
Acenaphthene	20	10 U	0.7 J	10 U	NR	10 U	10 U
Dibenzofuran	5	10 U	0.5 J	10 U	NR	10 U	10 U
2,4-Dinitrotoluene	NA	2.0 U	2.0 U	2.0 U	NR	2.0 U	2.0 U
Diethylphthalate	50	10 U	10 U	10 U	NR	10 U	10 U
4-Chlorophenyl-phenylether	?	10 U	10 U	10 U	NR	10 U	10 U
Fluorene	50	10 U	0.7 J	10 U	NR	10 U	10 U
4-Nitroaniline	5*	20 U	20 U	20 U	NR	20 U	20 U
N-Nitrosodiphenylamine	NA	10 U	10 U	10 U	NR	10 U	10 U
4-Bromophenyl-phenylether	?	10 U	10 U	10 U	NR	10 U	10 U
Hexachlorobenzene	0.04	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
Phenanthrene	50	10 U	3.4 J	10 U	NR	10 U	0.2 J
Anthracene	20	10 U	1.9 J	10 U	NR	10 U	1.2 J
Carbazole	?	10 U	1.7 J	10 U	NR	10 U	10 U
Di-n-butylphthalate	50	10 U	10 U	10 U	NR	10 U	10 U
Fluoranthene	50	10 U	3.2 J	10 U	NR	10 U	2.7 J
Pyrene	50	10 U	3.3 J	10 U	NR	10 U	2.2 J
Butylbenzylphthalate	50	10 U	10 U	10 U	NR	10 U	10 U
3,3'-Dichlorobenzidine	NA	20 U	20 U	20 U	NR	20 U	20 U
Benzo(a)anthracene	0.002	1.0 U	1.1	1.0 U	NR	1.0 U	1.0 J
Chrysene	0.002	10 U	1.6 J	10 U	NR	10 U	1.3 J
bis(2-Ethylhexyl)phthalate	50	10 U	10 U	8.0 J	NR	10 U	10 U
Di-n-octylphthalate	50	10 U	10 U	10 U	NR	10 U	10 U
Benzo(b)fluoranthene	0.002	1.0 U	2.2	1.0 U	NR	1.0 U	0.7 J
Benzo(k)fluoranthene	0.002	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
Benzo(a)pyrene	0.002	1.0 U	1.2	1.0 U	NR	1.0 U	0.8 J
Indeno(1,2,3-cd)pyrene	0.002	1.0 U	0.6 J	1.0 U	NR	1.0 U	0.3 J
Dibenz(a,h)anthracene	20	1.0 U	1.0 U	1.0 U	NR	1.0 U	1.0 U
Benzo(g,h,i)perylene	5	10 U	0.7 J	10 U	NR	10 U	10 U
Total Confident Conc. BNAs (s)		0	18	0		0	0
Total Estimated Conc. BNA TICs (s)		0	472	0		0	127

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NR-Not analyzed.

Table 16
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	OW-11	WP-21-1	FB-081202-1	Trip_Blank	WP-34-1	WP-37-1
Lab Sample Number	Water Quality	368860	368861	368862	368863	368864	368865
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
METALS							
Aluminum	**NA**	3370	137000	77.4 U	NR	238000	82000
Antimony	**3**	6.9 B	11.9 B	3.9 U	NR	7.8 U	3.9 U
Arsenic	**25**	9.1	87.2	3.4 U	NR	73.2	22.2
Barium	**1000**	940	4250	0.80 U	NR	3610	1130
Beryllium	**11 / 1,000 ***	0.10 U	10.2	0.10 U	NR	16.9	6.2
Cadmium	**5**	154	17.6	0.40 U	NR	8.9	1.2 B
Calcium	**NA**	80700	483000	74.5 U	NR	464000	301000
Chromium	**50**	12.1	403	2.8 U	NR	734	294
Cobalt	**5**	3.9 B	139	3.5 U	NR	422	107
Copper	**200**	63.9	4160	2.1 U	NR	1130	305
Iron	**300**	15700	369000	39.7 U	NR	545000	150000
Lead	**25**	393	5420	2.2 U	NR	418	155
Magnesium	**35,000**	18200	85600	70.0 U	NR	262000	136000
Manganese	**300**	505	5760	2.9 U	NR	15400	3910
Mercury	**0.7**	0.10 U	22.6	0.10 U	NR	0.32	0.10 U
Nickel	**100**	18.9 B	406	3.9 U	NR	762	293
Potassium	**NA**	7900	129000	306 B	NR	77200	44600
Selenium	**10**	3.9 U	13.3	3.9 U	NR	7.8 U	3.9 U
Silver	**50**	0.70 U	44.6	0.70 U	NR	31.9	0.70 U
Sodium	**20,000**	56100	189000	361 U	NR	947000	75100
Thallium	**NA**	4.4 U	8.8 U	4.4 U	NR	8.8 U	4.4 U
Vanadium	**14**	8.4 B	320	5.1 U	NR	560	167
Zinc	**NA**	1250	6780	5.8 U	NR	1270	350

Sample ID	NYSDEC	OW-11	WP-21-1	FB-081202-1	Trip_Blank	WP-34-1	WP-37-1
Lab Sample Number	Water Quality	368877	368878		369134	368879	368880
Sampling Date	Standards	08/13/02	08/13/02		08/13/02	08/13/02	08/13/02
METALS (Dissolved)							
Aluminum	**NA**	77.4 U	1300	NR	NR	77.4 U	77.4 U
Antimony	**3**	3.9 U	24.8	NR	NR	3.9 U	3.9 U
Arsenic	**25**	3.4 U	20.8	NR	NR	3.4 U	3.4 U
Barium	**1000**	782	4.9 B	NR	NR	182 B	71.9 B
Beryllium	**11 / 1,000 ***	0.1 U	0.1 U	NR	NR	0.1 U	0.1 U
Cadmium	**5**	0.4 U	0.4 U	NR	NR	0.4 U	0.4 U
Calcium	**NA**	71500	6510	NR	NR	79200	107000
Chromium	**50**	2.8 U	2.8 U	NR	NR	2.8 U	2.8 U
Cobalt	**5**	3.5 U	3.5 U	NR	NR	3.5 U	3.5 U
Copper	**200**	2.1 U	8.4 B	NR	NR	2.5 B	2.1 U
Iron	**300**	5520	187	NR	NR	39.7 U	202
Lead	**25**	2.2 U	7	NR	NR	2.2 U	2.2 U
Magnesium	**35,000**	15200	70 U	NR	NR	16100	42300
Manganese	**300**	329	5.5 B	NR	NR	169	448
Mercury	**0.7**	0.1 U	0.14 B	NR	NR	0.1 U	0.1 U
Nickel	**100**	3.9 U	11.1 B	NR	NR	3.9 U	3.9 U
Potassium	**NA**	6500	60900	NR	NR	8240	23300
Selenium	**10**	3.9 U	3.9 U	NR	NR	3.9 U	19.5 U
Silver	**50**	0.7 U	0.7 U	NR	NR	0.7 U	0.7 U
Sodium	**20,000**	49700	157000	NR	NR	953000	70200
Thallium	**NA**	4.4 U	4.4 U	NR	NR	4.4 U	4.4 U
Vanadium	**14**	5.1 U	25.5 B	NR	NR	5.1 U	5.1 U
Zinc	**NA**	10.6 B	13.1 B	NR	NR	6 B	5.8 U

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NR-Not analyzed.

Table 17
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-28-1A	OW-7	FB-081302-1	OW-9	OW-18	OW-8
Lab Sample Number	Water Quality	368866	368867	368868	368869	368870	368871
Sampling Date	Standards	08/13/02	08/13/02	08/13/02	08/12/02	08/12/02	08/12/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)							
Chloromethane	**NA**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
VinylChloride	**2**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MethyleneChloride	**5***	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Acetone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CarbonDisulfide	**50**	5.0 U	1.0 J	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	**5***	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	**5***	5.0 U	5.0 U	5.0 U	3.1 J	5.0 U	5.0 U
Chloroform	**7**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	**0.6**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Butanone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CarbonTetrachloride	**5**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromodichloromethane	**?**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	**1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	**1**	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzene	**1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	**?**	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
4-Methyl-2-Pentanone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	**?**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	**5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	**5***	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Styrene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene(Total)	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident Conc. VOAs (s)		0	0	0	0	0	0
Total Estimated Conc. VOA TICs (s)		0	0	0	0	0	0

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 17
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-28-1A	OW-7	FB-081302-1	OW-9	OW-18	OW-8
Lab Sample Number	Water Quality	368866	368867	368868	368869	368870	368871
Sampling Date	Standards	08/13/02	08/13/02	08/13/02	08/12/02	08/12/02	08/12/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SEMIVOLATILE COMPOUNDS (GC/MS)							
Phenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	**5***	10 U	10 U	10 U	1.4 J	7.5 J	10 U
2-Nitrophenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	**5***	40 U	40 U	40 U	42 U	41 U	40 U
4-Nitrophenol	**5***	40 U	40 U	40 U	42 U	41 U	40 U
4,6-Dinitro-2-methylphenol	**5***	40 U	40 U	40 U	42 U	41 U	40 U
Pentachlorophenol	**5***	40 U	40 U	40 U	42 U	41 U	40 U
bis(2-Chloroethyl)ether	**1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	**3**	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	**3**	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	**3**	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroisopropyl)ether	**?**	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	**?**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachloroethane	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nitrobenzene	**5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	**50**	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	**5***	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	**10**	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	**5***	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	**0.5**	2.0 U	2.0 U	2.0 U	2.1 U	2.1 U	2.0 U
2-Methylnaphthalene	**50**	10 U	10 U	10 U	10 U	10 U	10 U

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Table 17
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-28-1A	OW-7	FB-081302-1	OW-9	OW-18	OW-8
Lab Sample Number	Water Quality	368866	368867	368868	368869	368870	368871
Sampling Date	Standards	08/13/02	08/13/02	08/13/02	08/12/02	08/12/02	08/12/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Hexachlorocyclopentadiene	5*	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5*	20 U	20 U	20 U	21 U	21 U	20 U
Dimethylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	20	0.4 J	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5*	2.0 U	2.0 U	2.0 U	2.1 U	2.1 U	2.0 U
3-Nitroaniline	5*	20 U	20 U	20 U	21 U	21 U	20 U
Acenaphthene	20	10 U	10 U	10 U	10 U	2.8 J	0.4 J
Dibenzofuran	5	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	NA	2.0 U	2.0 U	2.0 U	2.1 U	2.1 U	2.0 U
Diethylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	?	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	5*	20 U	20 U	20 U	21 U	21 U	20 U
N-Nitrosodiphenylamine	NA	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	?	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Phenanthrene	50	0.4 J	10 U	10 U	2.0 J	0.4 J	10 U
Anthracene	20	0.5 J	10 U	10 U	0.8 J	1.1 J	10 U
Carbazole	?	0.3 J	10 U	10 U	0.3 J	0.2 J	10 U
Di-n-butylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	0.8 J	10 U	10 U	4.7 J	1.3 J	10 U
Pyrene	50	0.6 J	10 U	10 U	3.9 J	1.0 J	0.6 J
Butylbenzylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	NA	20 U	20 U	20 U	21 U	21 U	20 U
Benzo(a)anthracene	0.002	1.0 U	1.0 U	1.0 U	2.2	0.4 J	1.0 U
Chrysene	0.002	10 U	10 U	10 U	2.8 J	0.6 J	10 U
bis(2-Ethylhexyl)phthalate	50	10 U	10 U	7.4 J	3.0 J	10 U	10 U
Di-n-octylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002	0.6 J	1.0 U	1.0 U	4.2	0.8 J	1.0 U
Benzo(k)fluoranthene	0.002	1.0 U	1.0 U	1.0 U	1.2	0.4 J	1.0 U
Benzo(a)pyrene	0.002	0.5 J	1.0 U	1.0 U	2.6	0.5 J	1.0 U
Indeno(1,2,3-cd)pyrene	0.002	0.4 J	1.0 U	1.0 U	1.8	0.2 J	1.0 U
Dibenz(a,h)anthracene	20	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	5	0.4 J	10 U	10 U	1.7 J	0.3 J	10 U
Total Confident Conc. BNAs (s)		0	0	0	12	0	0
Total Estimated Conc. BNA TICs (s)		0	0	0	18	18	0

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 17
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-28-1A	OW-7	FB-081302-1	OW-9	OW-18	OW-8
Lab Sample Number	Water Quality	368866	368867	368868	368869	368870	368871
Sampling Date	Standards	08/13/02	08/13/02	08/13/02	08/12/02	08/12/02	08/12/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	1.0	1.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
METALS							
Aluminum	**NA**	19400	698	77.4 U	15300	39300	344
Antimony	**3**	4.2 B	3.9 U	3.9 U	8.9 B	9.2 B	3.9 U
Arsenic	**25**	12.8	6.1	3.4 U	6.4	13.3	9.1
Barium	**1000**	562	37.1 B	0.80 U	536	682	135 B
Beryllium	**11 / 1,000 ***	0.78 B	0.11 B	0.10 U	0.60 B	1.4 B	0.10 U
Cadmium	**5**	2.4 B	0.40 U	0.40 U	7.1	6.3	3.7 B
Calcium	**NA**	106000	133000	74.5 U	156000	161000	88300
Chromium	**50**	40.2	2.8 U	2.8 U	93.4	159	2.8 U
Cobalt	**5**	14.8 B	5.2 B	3.5 U	13.2 B	30.4 B	3.5 U
Copper	**200**	80.6	7.5 B	2.1 U	183	218	81.9
Iron	**300**	36400	11200	39.7 U	25600	66500	11900
Lead	**25**	277	2.2 U	2.2 U	672	833	9.4
Magnesium	**35,000**	31100	7320	70.0 U	51000	64300	30600
Manganese	**300**	725	3320	2.9 U	857	1540	688
Mercury	**0.7**	0.33	0.10 U	0.10 U	0.34	0.30	0.10 U
Nickel	**100**	40.4	16.7 B	3.9 U	47.6	102	5.4 B
Potassium	**NA**	15000	22800	106 U	10200	21800	24100
Selenium	**10**	3.9 U	3.9 U	3.9 U	3.9 U	19.5 U	3.9 U
Silver	**50**	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U
Sodium	**20,000**	59800	20400	361 U	28300	145000	183000
Thallium	**NA**	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Vanadium	**14**	70.9	5.1 U	5.1 U	62.7	142	5.1 U
Zinc	**NA**	345	29.7 B	6.2 B	1830	2390	87.6

Sample ID	NYSDEC	WP-28-1A	OW-7	FB-081302-1	OW-9	OW-18	OW-8
Lab Sample Number	Water Quality	368881	368882		368883	368884	368885
Sampling Date	Standards	08/13/02	08/13/02		08/13/02	08/12/02	08/12/02
METALS (Dissolved)							
Aluminum	**NA**	62.6 U	62.6 U		62.6 U	62.6 U	62.6 U
Antimony	**3**	5.8 U	5.8 U		5.8 U	5.8 U	5.8 U
Arsenic	**25**	3.2 U	3.2 U		3.2 U	3.2 U	3.2 U
Barium	**1000**	157 B	13.1 B		41.5 B	161 B	122 B
Beryllium	**11 / 1,000 ***	0.3 U	0.3 U		0.3 U	0.3 U	0.3 U
Cadmium	**5**	0.4 U	0.4 U		0.4 U	0.4 U	0.4 U
Calcium	**NA**	73400	139000		92200	103000	88600
Chromium	**50**	1.6 U	1.6 U		1.6 U	1.6 U	1.6 U
Cobalt	**5**	1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
Copper	**200**	3.7 U	3.7 U		3.7 U	3.7 U	3.7 u
Iron	**300**	205	39.2 U		922	4110	1650
Lead	**25**	2.3 U	2.3 U		2.3 U	2.3 U	2.3 U
Magnesium	**35,000**	14100	8100		10700	19700	30400
Manganese	**300**	174	214		537	771	655
Mercury	**0.7**	0.1 U	0.1 U		0.1 U	0.1 U	0.1 U
Nickel	**100**	1.7 B	3.6 B		2.7 B	1.9 B	2.7 B
Potassium	**NA**	14100	24600		9570	13500	25300
Selenium	**10**	4.2 U	4.2 U		4.2 U	4.2 U	4.2 U
Silver	**50**	1.4 U	1.4 U		1.4 U	1.4 U	1.4 U
Sodium	**20,000**	63900	25600		29700	151000	173000
Thallium	**NA**	4.7 U	4.7 U		4.7 U	4.7 U	4.7 U
Vanadium	**14**	4.8 B	1.8 U		1.8 U	2.4 B	1.8 U
Zinc	**NA**	7.6 B	16.2 B		8.4 B	8.3 B	5.8 U

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 18
Former General Motors Site
Tarrytown, New York
Groundwater Sampling
Results

	NYSDEC Water Quality Standards Surface Waters and Groundwater (ug/l)	WP-30-2 369128 08/13/02 WATER 1.0 ug/L	WP-26-2 369129 08/13/02 WATER 1.0 ug/L	WP-39-1 369130 08/13/02 WATER 1.0 ug/L	OW-16 369131 08/13/02 WATER 1.0 ug/L	OW-17 369132 08/13/02 WATER 1.0 ug/L	OW-10 368874 08/12/02 WATER 2.0 ug/L
Chloromethane	**NA**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Bromomethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
VinylChloride	**2**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Chloroethane	**5***	5.0 U	16	5.0 U	5.0 U	5.0 U	10 U
MethyleneChloride	**5***	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	6.0 U
Acetone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
CarbonDisulfide	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
1,1-Dichloroethene	**5***	2.0 U	6.8	2.0 U	2.0 U	2.0 U	4.0 U
1,1-Dichloroethane	**5***	5.0 U	10	5.0 U	5.0 U	5.0 U	10 U
trans-1,2-Dichloroethene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
cis-1,2-Dichloroethene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Chloroform	**7**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
1,2-Dichloroethane	**0.6**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U
2-Butanone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
1,1,1-Trichloroethane	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
CarbonTetrachloride	**5**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U
Bromodichloromethane	**?**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichloropropane	**1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
cis-1,3-Dichloropropene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Trichloroethene	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Dibromochloromethane	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
1,1,2-Trichloroethane	**1**	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	6.0 U
Benzene	**1**	1.0 U	1.0 U	2.1	1.0 U	1.0 U	6.2
trans-1,3-Dichloropropene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Bromoform	**?**	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
4-Methyl-2-Pentanone	**50**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2-Hexanone	**?**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Tetrachloroethene	**5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Toluene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Chlorobenzene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.3 J
Ethylbenzene	**5***	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
Styrene	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Xylene(Total)	**5***	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
		0	33	2.1	0	0	6.2
		0	31	236	0	0	747

Table 18
Former General Motors Site
Tarrytown, New York
Groundwater Sampling
Results

	NYSDEC Water Quality Standards Surface Waters and Groundwater (ug/l)	WP-30-2 369128 08/13/02 WATER 1.0 ug/L	WP-26-2 369129 08/13/02 WATER 1.0 ug/L	WP-39-1 369130 08/13/02 WATER 1.0 ug/L	OW-16 369131 08/13/02 WATER 1.0 ug/L	OW-17 369132 08/13/02 WATER 1.0 ug/L	OW-10 368874 08/12/02 WATER 1.0 ug/L
Phenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	5*	40 U	40 U	40 U	40 U	40 U	42 U
4-Nitrophenol	5*	40 U	40 U	40 U	40 U	40 U	42 U
4,6-Dinitro-2-methylphenol	5*	40 U	40 U	40 U	40 U	40 U	42 U
Pentachlorophenol	5*	40 U	40 U	40 U	40 U	40 U	42 U
bis(2-Chloroethyl)ether	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroisopropyl)ether	?	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	?	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nitrobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	50	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	5*	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	4.3 J
4-Chloroaniline	5*	10 U	10 U	10 U	10 U	10 U	10 U

Table 18
Former General Motors Site
Tarrytown, New York
Groundwater Sampling
Results

	NYSDEC Water Quality Standards Surface Waters and Groundwater (ug/l)	WP-30-2 369128 08/13/02 WATER 1.0 ug/L	WP-26-2 369129 08/13/02 WATER 1.0 ug/L	WP-39-1 369130 08/13/02 WATER 1.0 ug/L	OW-16 369131 08/13/02 WATER 1.0 ug/L	OW-17 369132 08/13/02 WATER 1.0 ug/L	OW-10 368874 08/12/02 WATER 1.0 ug/L
Hexachlorobutadiene	**0.5**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U
2-Methylnaphthalene	**50**	10 U	10 U	10 U	10 U	10 U	2.0 J
Hexachlorocyclopentadiene	**5***	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	**10**	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	**5***	20 U	20 U	20 U	20 U	20 U	21 U
Dimethylphthalate	**50**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	**20**	10 U	10 U	3.1 J	10 U	10 U	10 U
2,6-Dinitrotoluene	**5***	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U
3-Nitroaniline	**5***	20 U	20 U	20 U	20 U	20 U	21 U
Acenaphthene	**20**	10 U	10 U	1.2 J	10 U	10 U	1.4 J
Dibenzofuran	**5**	10 U	10 U	10 U	10 U	10 U	0.5 J
2,4-Dinitrotoluene	**NA**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U
Diethylphthalate	**50**	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	**?**	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	**50**	10 U	10 U	10 U	10 U	10 U	1.0 J
4-Nitroaniline	**5***	20 U	20 U	20 U	20 U	20 U	21 U
N-Nitrosodiphenylamine	**NA**	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	**?**	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	**0.04**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Phenanthrene	**50**	10 U	10 U	2.1 J	10 U	10 U	0.5 J
Anthracene	**20**	10 U	0.4 J	2.8 J	10 U	10 U	0.5 J
Carbazole	**?**	10 U	10 U	0.5 J	10 U	10 U	10 U
Di-n-butylphthalate	**50**	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	**50**	10 U	10 U	5.6 J	10 U	10 U	10 U
Pyrene	**50**	10 U	3.0 J	5.6 J	10 U	10 U	10 U
Butylbenzylphthalate	**50**	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	**NA**	20 U	20 U	20 U	20 U	20 U	21 U
Benzo(a)anthracene	**0.002**	1.0 U	1.0 U	2.3	1.0 U	1.0 U	1.0 U
Chrysene	**0.002**	10 U	10 U	2.7 J	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	**50**	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	**50**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	**0.002**	1.0 U	1.0 U	2.6	1.0 U	1.0 U	1.0 U
Benzo(k)fluoranthene	**0.002**	1.0 U	1.0 U	0.8 J	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	**0.002**	1.0 U	1.0 U	2.3	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	**0.002**	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U
Dibenz(a,h)anthracene	**20**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	**5**	10 U	10 U	1.5 J	10 U	10 U	10 U
		0	0	8.7	0	0	0
		0	412	1283	0	0	1067

Table 18
Former General Motors Site
Tarrytown, New York
Groundwater Sampling
Results

	NYSDEC Water Quality Standards Surface Waters and Groundwater (ug/l)	WP-30-2 369128 08/13/02 WATER NA ug/l		WP-26-2 369129 08/13/02 WATER NA ug/l		WP-39-1 369130 08/13/02 WATER NA ug/l		OW-16 369131 08/13/02 WATER NA ug/l		OW-17 369132 08/13/02 WATER NA ug/l		OW-10 368874 08/12/02 WATER NA ug/l	
Aluminum	**NA**	146000		105000		64500		5160		1210		4960	
Antimony	**3**	7.8	U	7.8	U	94.3		3.9	U	3.9	U	46.8	
Arsenic	**25**	68.3		34.0		123		35.6		3.4	U	13.1	
Barium	**1000**	297	B	1190		15700		27.9	B	384		7870	
Beryllium	**11 / 1,000 ***	7.8		7.7		4.7		0.21	B	0.69	B	0.17	B
Cadmium	**5**	0.80	U	1.0	B	34.3		0.40	U	5.5		7.4	
Calcium	**NA**	245000		217000		85600		56800		91700		76900	
Chromium	**50**	238		290		634		10.7		2.8	U	1390	
Cobalt	**5**	130		120		98.3	B	3.7	B	11.5	B	7.0	B
Copper	**200**	298		519		1230		33.2		33.3		102	
Iron	**300**	338000		251000		279000		12300		21700		49900	
Lead	**25**	213		237		18000		19.5		5.1		632	
Magnesium	**35,000**	98600		119000		38400		7570		74400		23600	
Manganese	**300**	5020		9420		4890		819		994		226	
Mercury	**0.7**	0.25		0.10	U	4.7		0.10	U	0.10	U	0.10	U
Nickel	**100**	299		348		313		8.5	B	45.7		16.5	B
Potassium	**NA**	24800		22200		89800		5810		30400		21800	
Selenium	**10**	7.8	U	7.8	U	7.8	U	3.9	U	3.9	U	11.7	U
Silver	**50**	1.4	B	1.4	U	2.8	B	0.70	U	0.85	B	0.70	U
Sodium	**20,000**	19600		153000		199000		133000		226000		486000	
Thallium	**NA**	8.8	U	8.8	U	8.8	U	4.4	U	4.4	U	4.4	U
Vanadium	**14**	230		303		265		16.7	B	5.1	U	13.2	B
Zinc	**NA**	953		606		14000		42.3		410		775	

Table 18
Former General Motors Site
Tarrytown, New York
Groundwater Sampling
Results

	NYSDEC Water Quality Standards Surface Waters and Groundwater (ug/l)	WP-30-2-Dis 369135 08/13/02 WATER NA ug/l		WP-26-2-Dis 369136 08/13/02 WATER NA ug/l		WP-39-1-Dis 369137 08/13/02 WATER NA ug/l		OW-16-Dis 369138 08/13/02 WATER NA ug/l		OW-17-Dis 369139 08/13/02 WATER NA ug/l		OW-10_Diss 368888 08/12/02 WATER NA ug/l	
Aluminum	**NA**	77.4	U	77.4	U	1740		77.4	U	132	B	62.6	U
Antimony	**3**	3.9	U	3.9	U	13.1		3.9	U	3.9	U	5.8	U
Arsenic	**25**	7.5		3.4	U	10.0		33.9		3.4	U	4.2	
Barium	**1000**	4.5	B	95.4	B	507		4.4	B	327		7060	
Beryllium	**11 / 1,000 ***	0.10	U	0.10	U	0.10	B	0.10	U	0.10	U	0.30	U
Cadmium	**5**	0.40	U	0.40	U	0.85	B	0.40	U	0.40	U	0.40	U
Calcium	**NA**	40700		117000		15300		56900		97200		74100	
Chromium	**50**	2.8	U	2.8	U	44.0		2.8	U	2.8	U	14.1	
Cobalt	**5**	3.5	U	3.6	B	3.5	U	3.5	U	8.4	B	1.7	U
Copper	**200**	2.1	U	2.1	U	61.4		2.1	U	2.9	B	3.7	U
Iron	**300**	42.7	B	1710		6990		1410		16100		20300	
Lead	**25**	2.2	U	2.2	U	446		2.2	U	2.2	U	2.3	U
Magnesium	**35,000**	11400		24000		2690	B	5930		75500		22200	
Manganese	**300**	168		2750		203		671		1480		66.0	
Mercury	**0.7**	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Nickel	**100**	3.9	U	5.7	B	14.1	B	3.9	U	30.5	B	2.9	B
Potassium	**NA**	10700		2970	B	76000		5310		30800		22500	
Selenium	**10**	3.9	U	3.9	U	3.9	U	3.9	U	3.9	U	4.2	U
Silver	**50**	0.70	U	0.70	U	0.90	B	0.70	U	0.70	U	1.4	U
Sodium	**20,000**	18600		161000		209000		141000		213000		493000	
Thallium	**NA**	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U	4.7	U
Vanadium	**14**	5.1	U	5.1	U	33.9	B	5.1	B	5.1	U	1.8	U
Zinc	**NA**	5.8	B	8.0	B	282		9.1	B	43.2		5.8	U

The compound was not detected at the indicated concentration.
Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
The spiked sample recovery is not within control limits.
Not analyzed.

Table 19
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-40-3	WP-40-8A	Dup	WP-29-1	FB-081302-2
Lab Sample Number	Water Quality	368872	368873	368875	368876	369133
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	2.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)						
Chloromethane	NA	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Bromomethane	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
VinylChloride	2	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Chloroethane	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
MethyleneChloride	5*	3.0 U	3.0 U	6.0 U	3.0 U	3.0 U
Acetone	50	5.0 U	5.0 U	10 U	5.0 U	5.0 U
CarbonDisulfide	50	5.0 U	5.0 U	10 U	5.0 U	5.0 U
1,1-Dichloroethene	5*	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Chloroform	7	5.0 U	5.0 U	10 U	5.0 U	5.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
2-Butanone	50	5.0 U	5.0 U	10 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
CarbonTetrachloride	5	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Bromodichloromethane	?	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Trichloroethene	5*	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Dibromochloromethane	50	5.0 U	5.0 U	10 U	5.0 U	5.0 U
1,1,2-Trichloroethane	1	3.0 U	3.0 U	6.0 U	3.0 U	3.0 U
Benzene	1	1.0 U	1.0 U	5.4	1.0 U	1.0 U
trans-1,3-Dichloropropene	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Bromoform	?	4.0 U	4.0 U	8.0 U	4.0 U	4.0 U
4-Methyl-2-Pentanone	50	5.0 U	5.0 U	10 U	5.0 U	5.0 U
2-Hexanone	?	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Tetrachloroethene	5	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5*	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Toluene	5*	5.0 U	5.0 U	2.8 J	5.0 U	5.0 U
Chlorobenzene	5*	5.0 U	5.0 U	3.2 J	5.0 U	5.0 U
Ethylbenzene	5*	4.0 U	4.0 U	4.1 J	4.0 U	4.0 U
Styrene	5*	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Xylene(Total)	5*	5.0 U	5.0 U	20	5.0 U	5.0 U
Total Confident Conc. VOAs (s)		0	0	25	0	0
Total Estimated Conc. VOA TICs (s)		0	0	717	0	0

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 19
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-40-3	WP-40-8A	Dup	WP-29-1	FB-081302-2
Lab Sample Number	Water Quality	368872	368873	368875	368876	369133
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	2.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L
SEMIVOLATILE COMPOUNDS (GC/MS)						
Phenol	**5***	1.0 J	10 U	10 U	10 U	10 U
2-Chlorophenol	**5***	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	**5***	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	**5***	0.6 J	10 U	10 U	10 U	10 U
2-Nitrophenol	**5***	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	**5***	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	**5***	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	**5***	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	**5***	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	**5***	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	**5***	40 U	40 U	40 U	40 U	40 U
4-Nitrophenol	**5***	40 U	40 U	40 U	40 U	40 U
4,6-Dinitro-2-methylphenol	**5***	40 U	40 U	40 U	40 U	40 U
Pentachlorophenol	**5***	40 U	40 U	40 U	40 U	40 U
bis(2-Chloroethyl)ether	**1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	**3**	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	**3**	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	**3**	10 U	10 U	10 U	10 U	10 U
bis(2-chloroisopropyl)ether	**?**	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	**?**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachloroethane	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nitrobenzene	**5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	**50**	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	**5***	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	**5***	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	**10**	0.6 J	10 U	4.3 J	10 U	10 U
4-Chloroaniline	**5***	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	**0.5**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	**50**	0.6 J	10 U	2.1 J	10 U	10 U

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 19
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-40-3	WP-40-8A	Dup	WP-29-1	FB-081302-2
Lab Sample Number	Water Quality	368872	368873	368875	368876	369133
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	2.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L
Hexachlorocyclopentadiene	5*	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U
Dimethylphthalate	50	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	20	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
3-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U
Acenaphthene	20	0.4 J	10 U	1.2 J	10 U	10 U
Dibenzofuran	5	0.3 J	10 U	0.8 J	10 U	10 U
2,4-Dinitrotoluene	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Diethylphthalate	50	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	?	10 U	10 U	10 U	10 U	10 U
Fluorene	50	0.2 J	10 U	0.9 J	10 U	10 U
4-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	NA	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	?	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Phenanthrene	50	1.2 J	10 U	0.5 J	10 U	10 U
Anthracene	20	0.2 J	10 U	0.4 J	10 U	10 U
Carbazole	?	0.3 J	10 U	10 U	10 U	10 U
Di-n-butylphthalate	50	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	50	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	NA	20 U	20 U	20 U	20 U	20 U
Benzo(a)anthracene	0.002	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	50	10 U	10 U	10 U	10 U	2.3 J
Di-n-octylphthalate	50	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(k)fluoranthene	0.002	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	0.002	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	0.002	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenz(a,h)anthracene	20	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	5	10 U	10 U	10 U	10 U	10 U
Total Confident Conc. BNAs (s)		0	0	0	0	0
Total Estimated Conc. BNA TICs (s)		8.5	0	825	0	0

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

Table 19
Groundwater Sampling Results
Formerly General Motors Site
Tarrytown, New York

Sample ID	NYSDEC	WP-40-3	WP-40-8A	Dup	WP-29-1	FB-081302-2
Lab Sample Number	Water Quality	368872	368873	368875	368876	369133
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	08/13/02
Matrix	Surface Waters	WATER	WATER	WATER	WATER	WATER
Dilution Factor	and	1.0	1.0	2.0	1.0	1.0
Units	Groundwater (ug/l)	ug/L	ug/L	ug/L	ug/L	ug/L
METALS						
Aluminum	NA	127000	109000	4760	185000	77.4 U
Antimony	3	7.8 U	7.8 U	44.6	89.0 B	3.9 U
Arsenic	25	61.8	44.9	16.4	138	3.4 U
Barium	1000	581	432	8050	10100	0.80 U
Beryllium	11 / 1,000 *	5.9	5.3	0.15 B	11.5 B	0.10 U
Cadmium	5	2.8 B	2.1 B	6.1	113	0.40 U
Calcium	NA	488000	456000	81000	270000	74.5 U
Chromium	50	267	199	1330	730	2.8 U
Cobalt	5	123	102	7.5 B	184 B	3.5 U
Copper	200	244	198	112	2710	2.1 U
Iron	300	295000	254000	49500	540000	39.7 U
Lead	25	238	127	605	106000	2.2 U
Magnesium	35,000	213000	205000	24800	84700	70.0 U
Manganese	300	7400	5800	223	9310	2.9 U
Mercury	0.7	0.50	0.52	0.10 U	9.7	0.10 U
Nickel	100	275	212	17.5 B	475	3.9 U
Potassium	NA	33400	25300	22900	17600 B	106 U
Selenium	10	7.8 U	7.8 U	19.5 U	39.0 U	3.9 U
Silver	50	1.4 U	1.4 U	0.70 U	24.1 B	1.7 B
Sodium	20,000	132000	106000	513000	42100 B	361 U
Thallium	NA	8.8 U	8.8 U	4.4 U	44.0 U	4.4 U
Vanadium	14	255	187	12.7 B	544	5.1 U
Zinc	NA	875	646	761	36200	6.3 B

Sample ID	NYSDEC	WP-40-3	WP-40-8A	Dup	WP-29-1	FB-081302-2
Lab Sample Number	Water Quality	368886	368887	368889	368890	
Sampling Date	Standards	08/12/02	08/12/02	08/12/02	08/12/02	
METALS (Dissolved)						
Aluminum	NA	62.6 U	62.6 U	62.6 U	62.6 U	
Antimony	3	5.8 U	5.8 U	6.3 B	8.4 B	
Arsenic	25	6.2	3.2 U	3.8 B	3.3 B	
Barium	1000	48 B	36.1 B	7620	272	
Beryllium	11 / 1,000 *	0.3 U	0.3 U	0.3 U	0.3 U	
Cadmium	5	0.4 U	0.4 U	0.4 U	0.4 U	
Calcium	NA	470000	337000	81100	75500	
Chromium	50	1.6 U	1.6 U	15.7	1.6 U	
Cobalt	5	10.7 B	7.2 B	1.7 U	1.7 U	
Copper	200	3.7 U	3.7 U	3.7 U	3.7 U	
Iron	300	14500	165	22900	92.8 B	
Lead	25	2.3 U	2.3 U	2.3 U	15.4	
Magnesium	35,000	163000	148000	24200	10600	
Manganese	300	4330	1930	70.3	380	
Mercury	0.7	0.1 U	0.1 U	0.1 U	0.1 U	
Nickel	100	12.6 B	3.1 B	4.5 B	1.6 U	
Potassium	NA	21100	16800	24100	7750	
Selenium	10	4.2 U	4.2 U	4.2 U	4.2 U	
Silver	50	1.4 U	1.4 U	1.4 U	1.4 U	
Sodium	20,000	140000	96600	631000	42300	
Thallium	NA	4.7 U	4.7 U	4.7 U	4.7 U	
Vanadium	14	1.8 U	1.8 U	1.8 U	1.8 U	
Zinc	NA	5.8 U	5.8 U	7 B	9.6 B	

U-The compound was not detected at the indicated concentration.
J-The concentration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.

ARCADIS

Appendix B

Distribution of Lead in Onsite Soil from Previous Investigations

Appendix B

Distribution of Lead in Pre – and Current Remedial Investigation Soil Samples

Appendix B -1: Pre-Remedial Investigation Frequency Curve for Lead

Appendix B -2: Pre-Remedial Investigation Lead Distribution Maps (Drawings 1 through 5 from Appendix B to Investigation Work Plan)

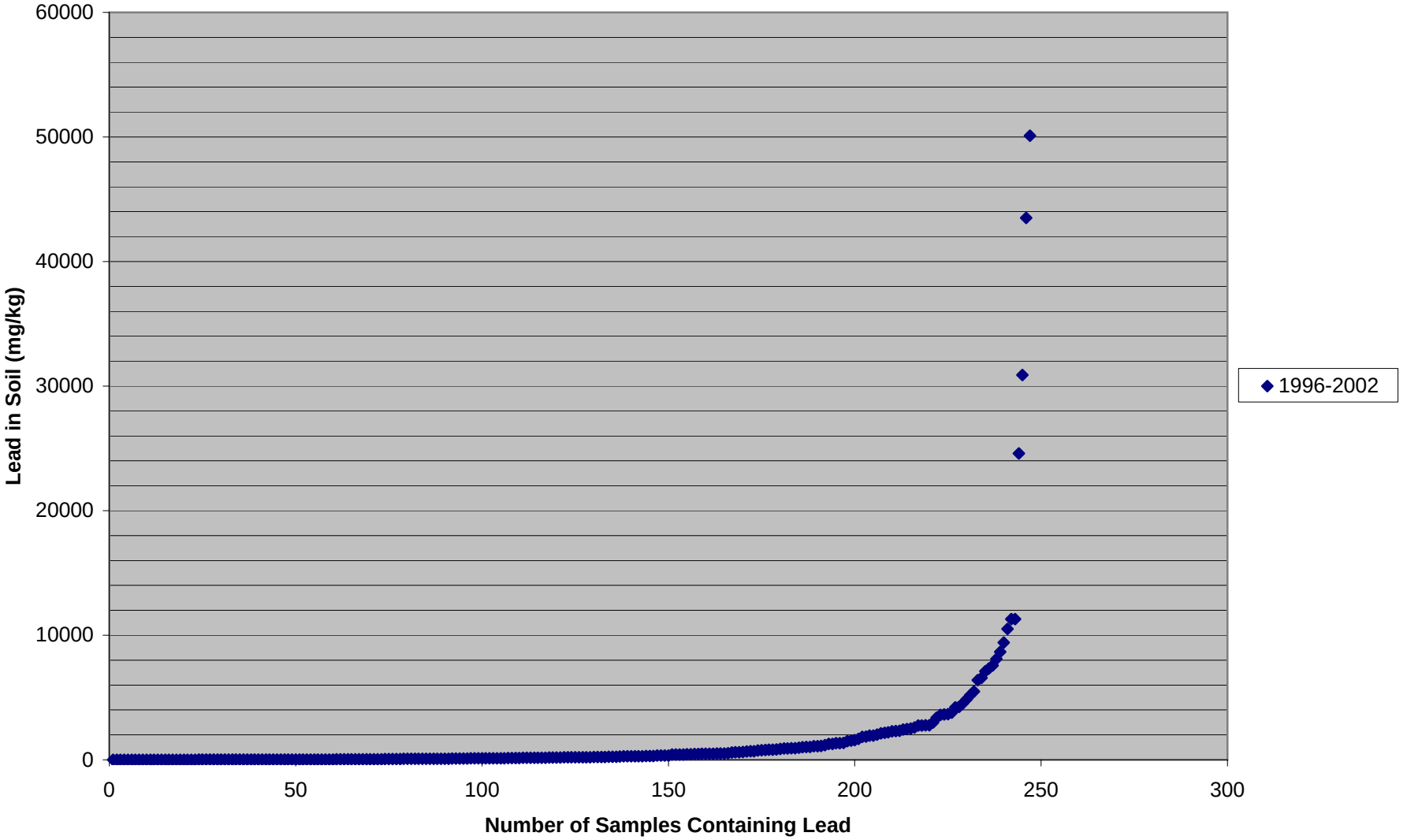
Appendix B-3: Remedial Investigation Frequency Curves for Lead

Appendix B-1

Pre-Remedial Investigation Frequency Curve for Lead

Appendix B - 1
Former GM North Tarrytown Assembly Plant Site

Pre-Remedial Investigation Site-Wide Lead Data



Appendix B-2

Pre-Remedial Investigation Lead Distribution Maps (Drawings 1 through 5 from Appendix B to Investigation Work Plan)

LEGEND

25-1 ▲ EcolSciences soil boring
(all other samples/borings by EMCON)

TOTAL LEAD CONCENTRATION (MG/KG):

- □ ≥10,000
- ◇ ≥5,700 to <10,000
- ○ ≥1,200 to <5,700
- • ≥500 to <1,200

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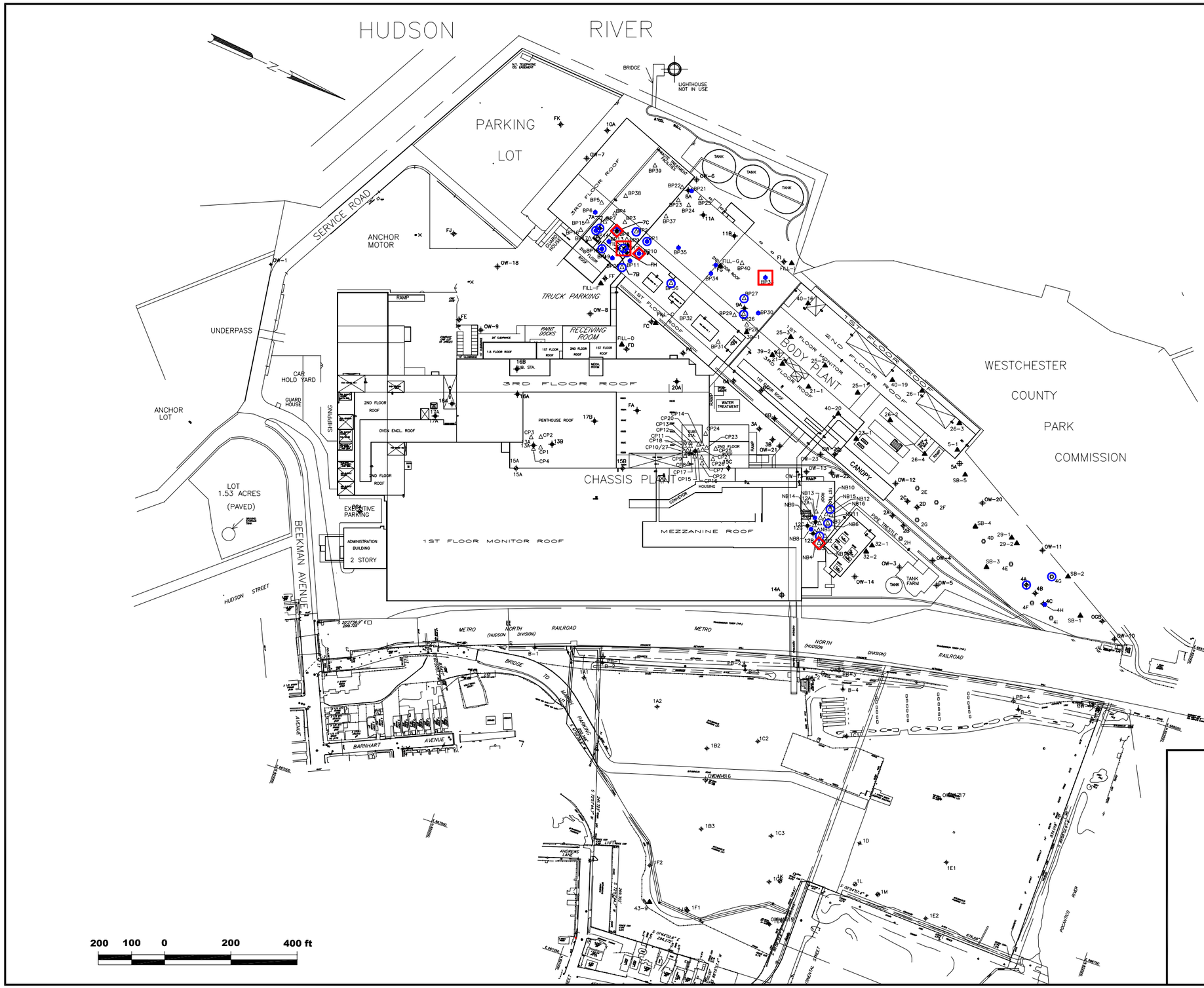
Final SI Work Plan - Appendix B
Drawing No. 1

CLASSED POST MAP OF TOTAL LEAD RESULTS IN SOIL (ALL SAMPLE DEPTHS)

Former General Motors Assembly Plant
Sleepy Hollow, New York

rev. 09/20/03



LEGEND

25-1 ▲ EcolSciences soil boring
(all other samples/borings by EMCON)

TOTAL LEAD CONCENTRATION (MG/KG):

- □ ≥10,000
- ◇ ≥5,700 to <10,000
- ○ ≥1,200 to <5,700
- • ≥500 to <1,200

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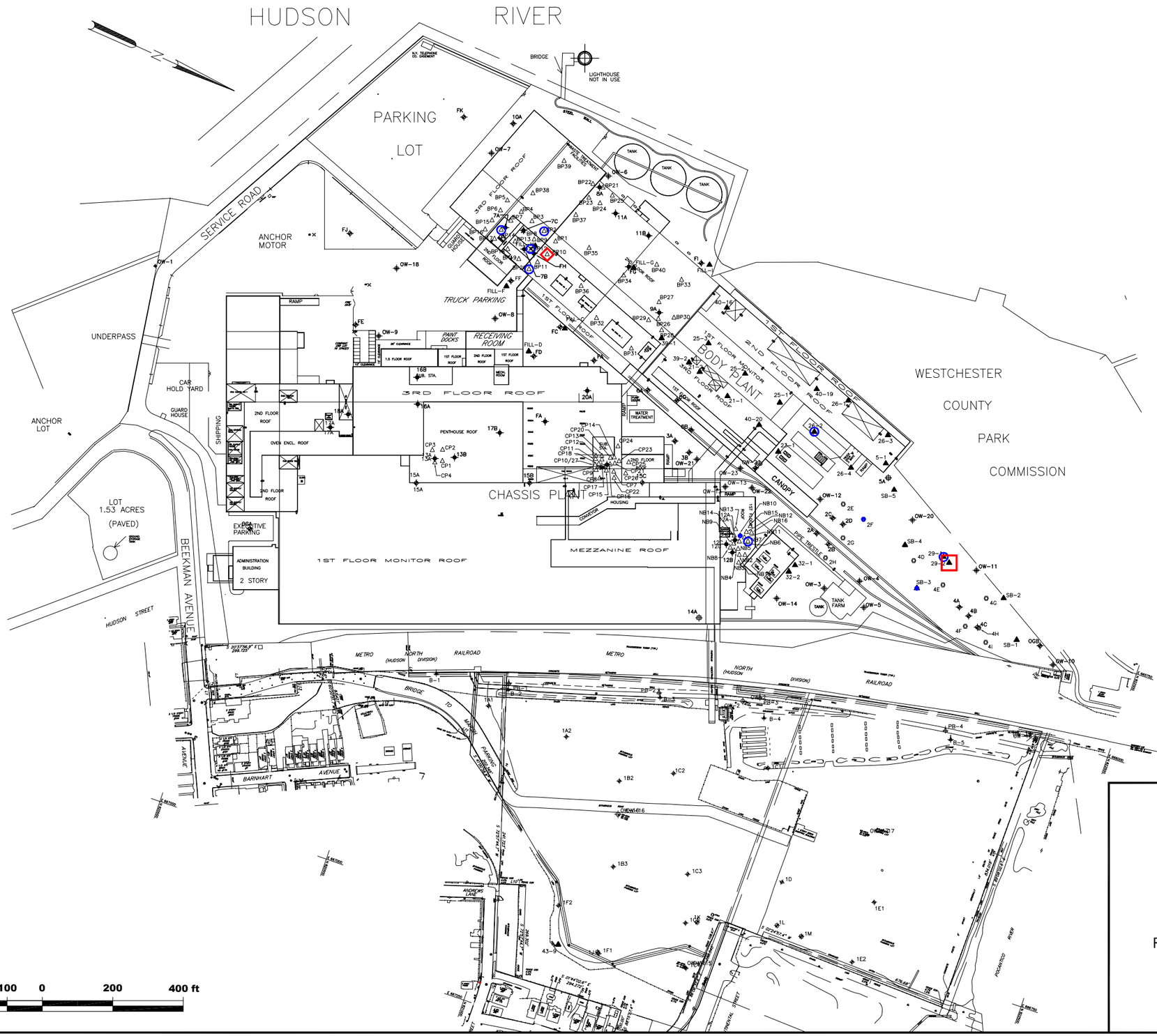
Final SI Work Plan - Appendix B
Drawing No. 2

CLASSED POST MAP OF TOTAL LEAD RESULTS IN SOIL (0-2 FT DEPTH INTERVAL)

Former General Motors Assembly Plant
Sleepy Hollow, New York

rev. 09/20/03



LEGEND

25-1 ▲ EcolSciences soil boring
(all other samples/borings by EMCON)

TOTAL LEAD CONCENTRATION (MG/KG):

- ≥10,000
- ≥5,700 to <10,000
- ≥1,200 to <5,700
- ≥500 to <1,200

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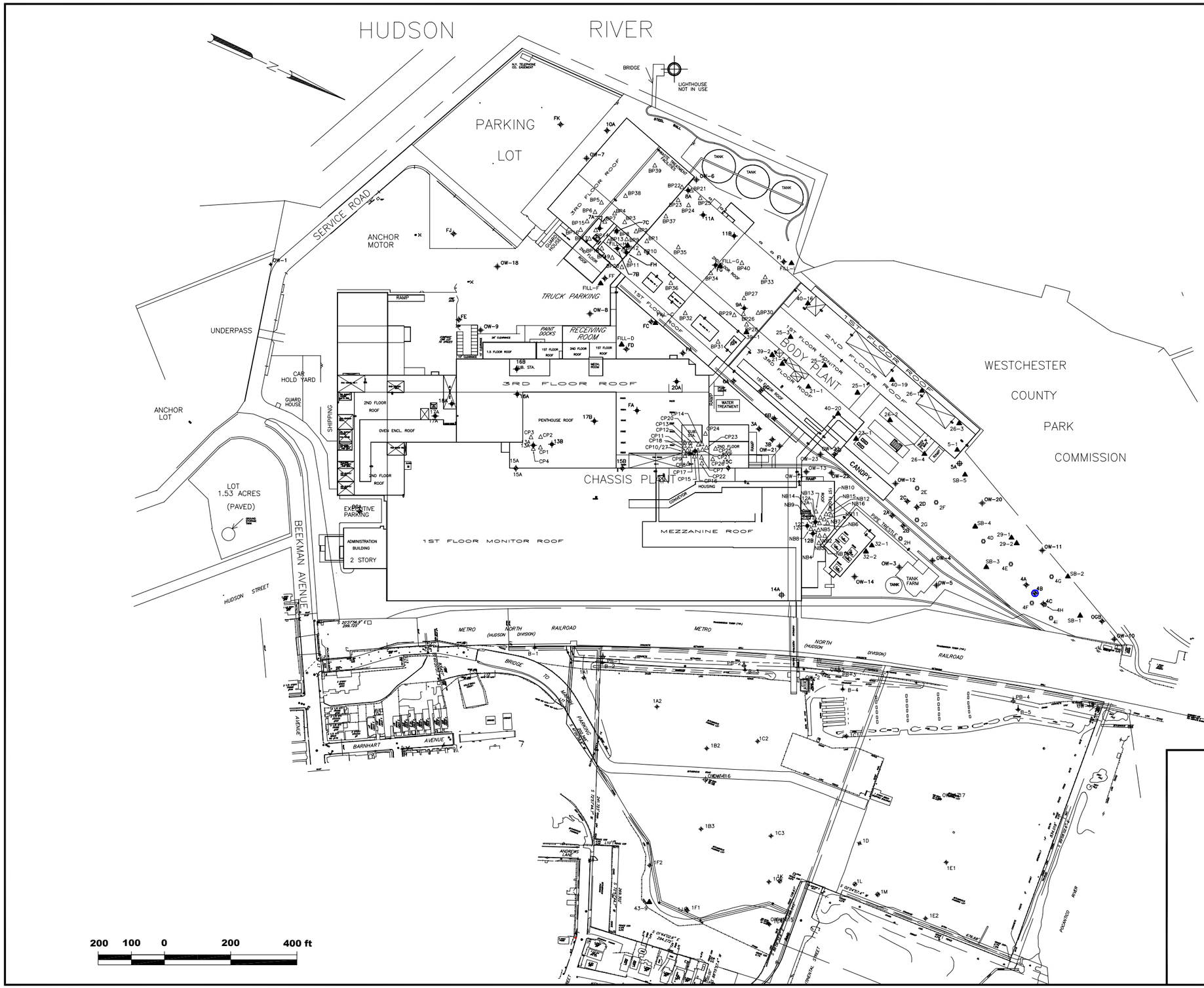
Final SI Work Plan - Appendix B
Drawing No. 3

CLASSED POST MAP OF TOTAL LEAD RESULTS IN SOIL (2-4 FT DEPTH INTERVAL)

Former General Motors Assembly Plant
Sleepy Hollow, New York

rev. 09/20/03



LEGEND

25-1 ▲ EcolSciences soil boring
(all other samples/borings by EMCON)

TOTAL LEAD CONCENTRATION (MG/KG):

- □ ≥10,000
- ◇ ≥5,700 to <10,000
- ○ ≥1,200 to <5,700
- • ≥500 to <1,200

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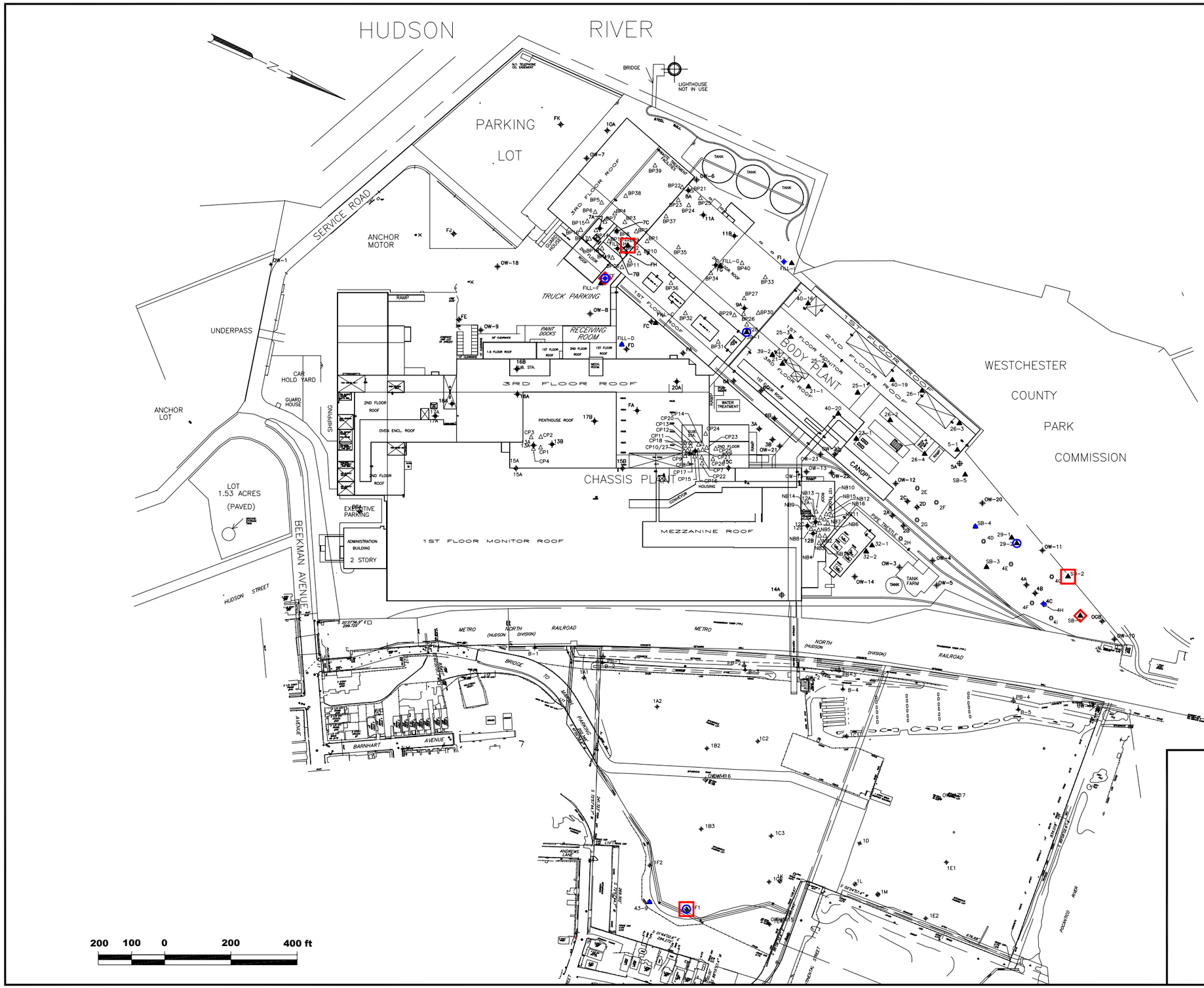
Final SI Work Plan - Appendix B
Drawing No. 4

CLASSED POST MAP OF TOTAL LEAD RESULTS IN SOIL (4-6 FT DEPTH INTERVAL)

Former General Motors Assembly Plant
Sleepy Hollow, New York

rev. 09/20/03



LEGEND

25-1 ▲ EcolSciences soil boring
(all other samples/borings by EMCON)

TOTAL LEAD CONCENTRATION (MG/KG):

- □ ≥10,000
- ◇ ≥5,700 to <10,000
- ○ ≥1,200 to <5,700
- • ≥500 to <1,200

amec Earth & Environmental

Final SI Work Plan - Appendix B
Drawing No. 5

CLASSED POST MAP OF TOTAL LEAD RESULTS IN SOIL (>6 FT DEPTH INTERVAL)

Former General Motors Assembly Plant
Sleepy Hollow, New York

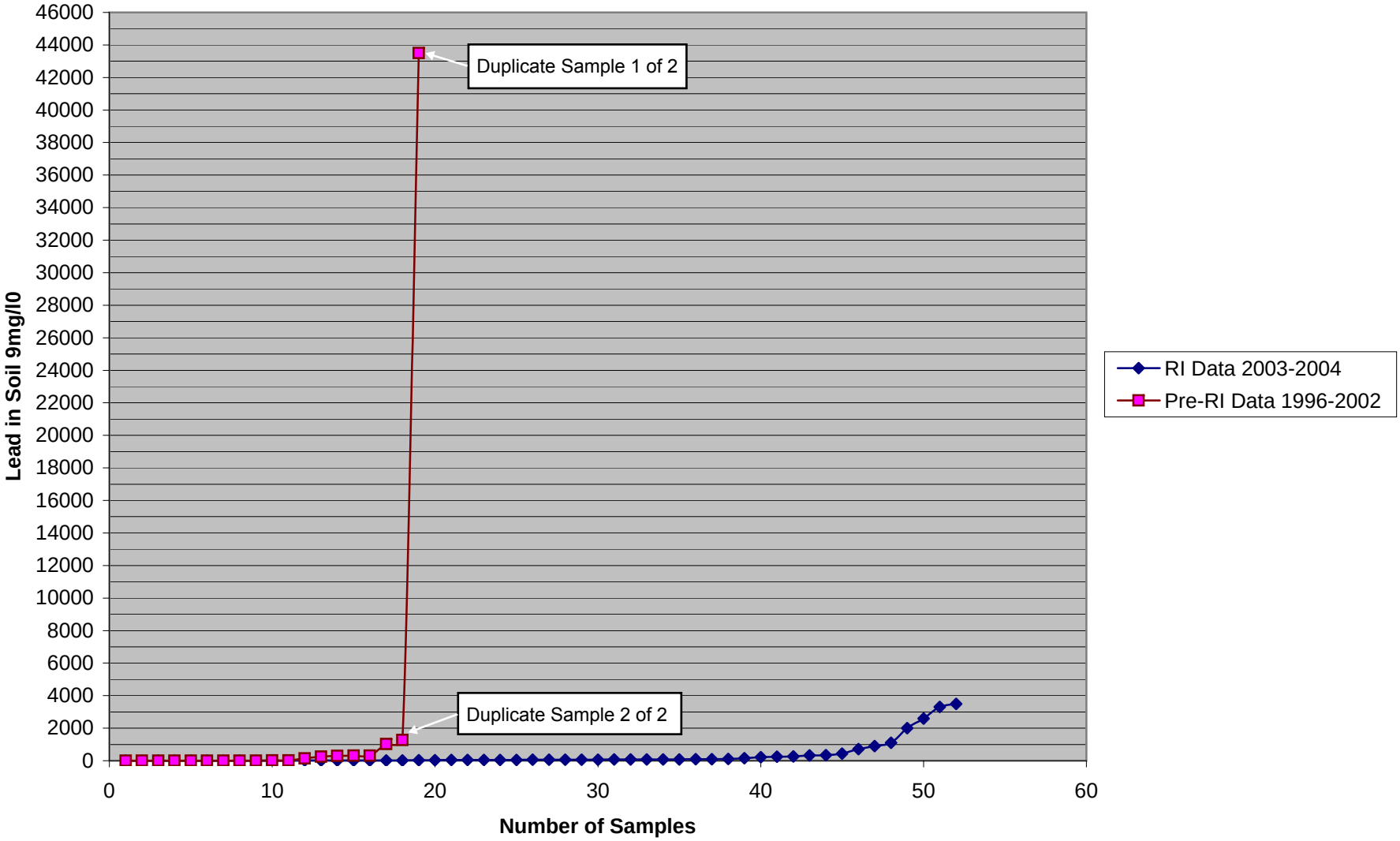
rev. 09/20/03

Appendix B-3

Remedial Investigation Frequency Curves for Lead

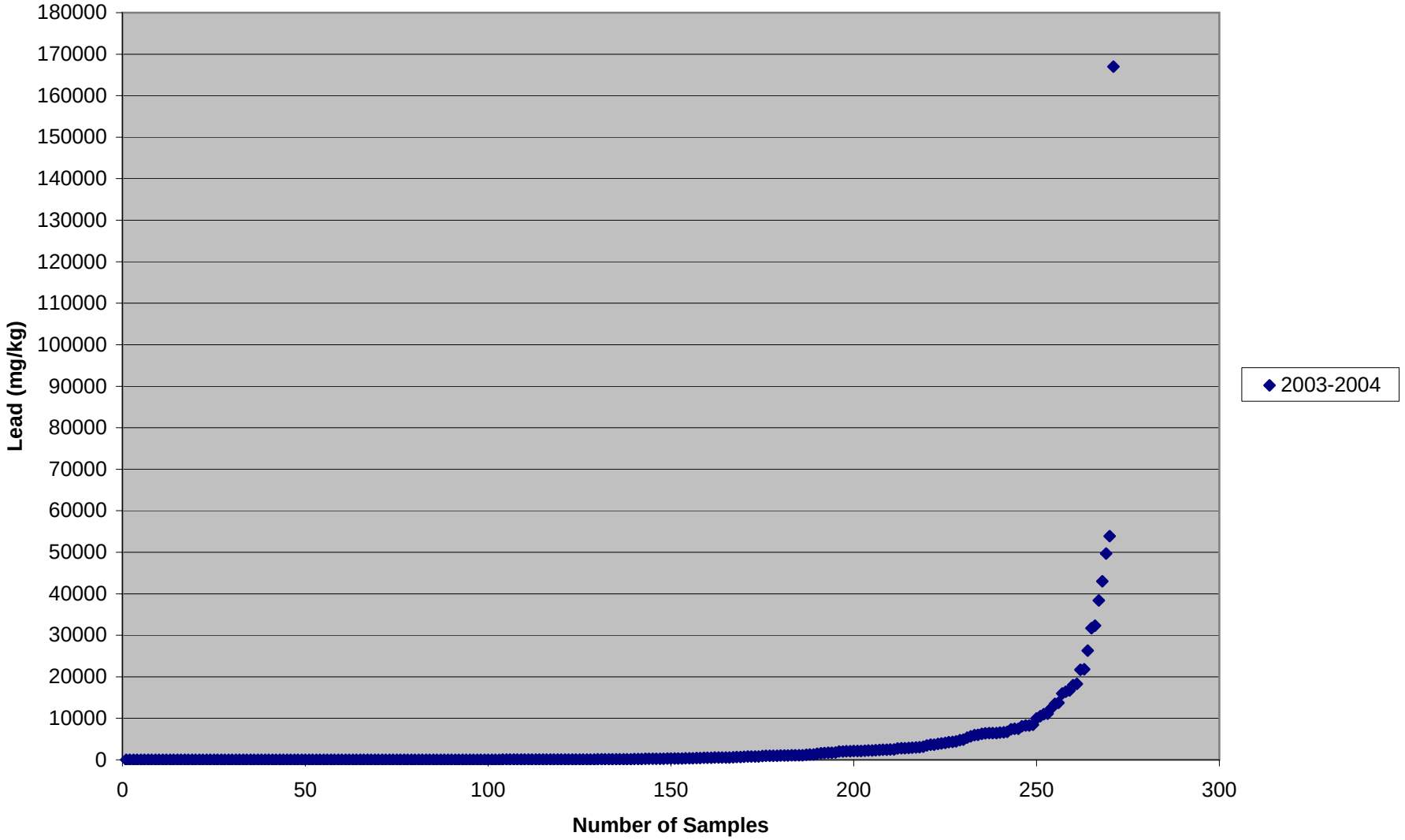
Appendix B - 3
Former GM North Tarrytown Assembly Plant Site

PAOC 1 - Previous Investigation Data vs. Remedial Investigation Data for Lead

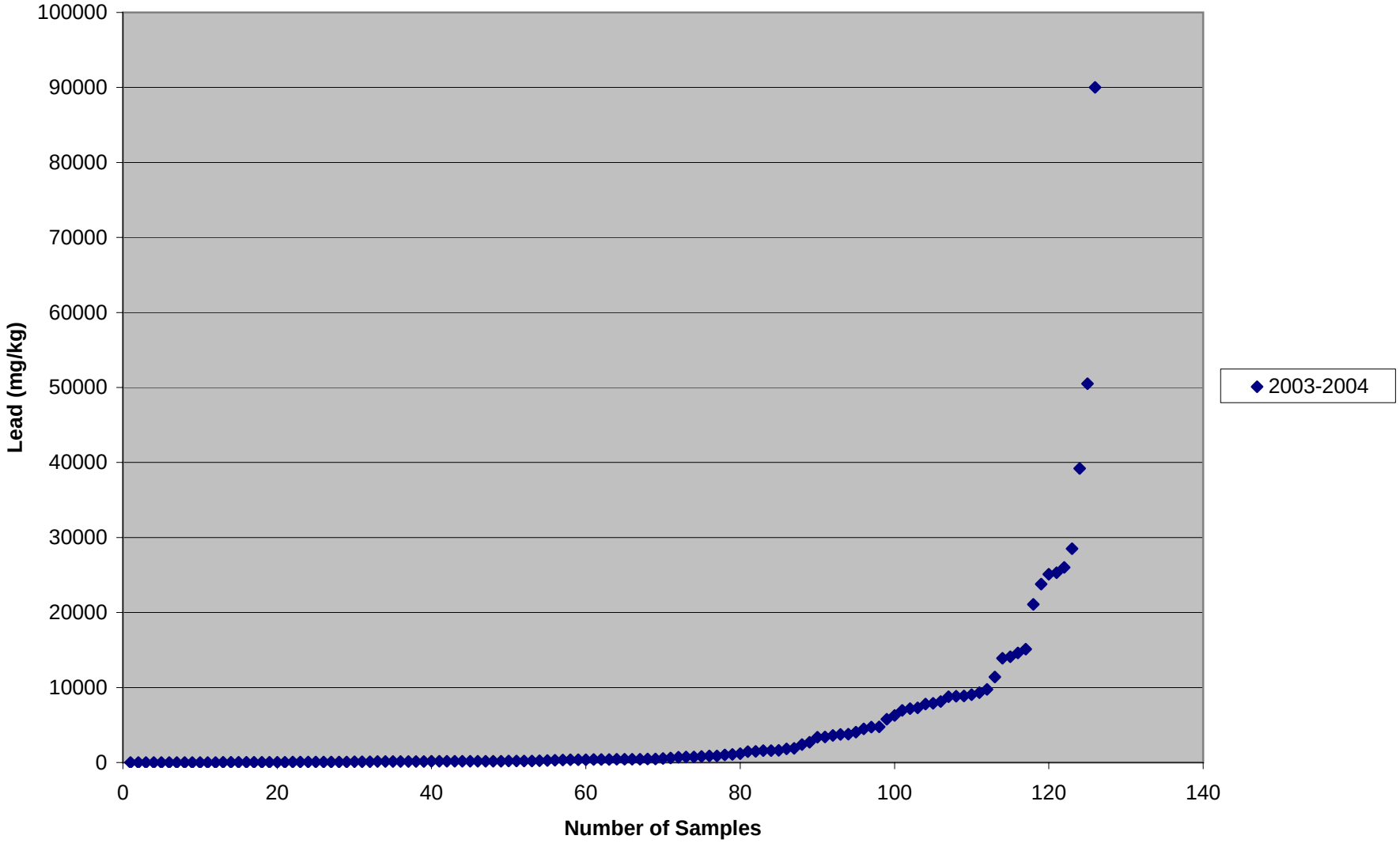


Appendix B - 3
Former GM North Tarrytown Assembly Plant Site

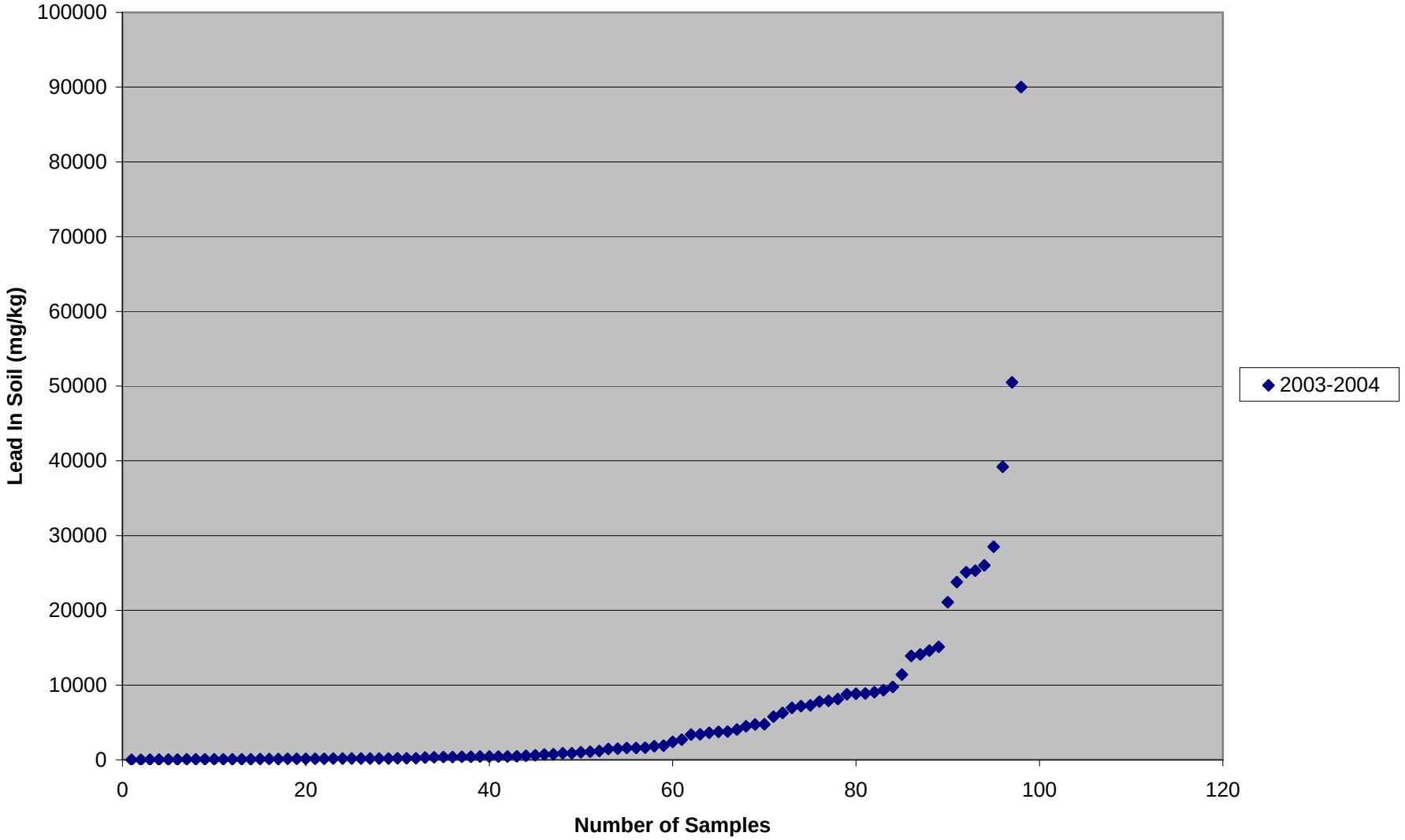
PAOC 7/Fill Areas H ,F, G Remedial Investigation Lead Data



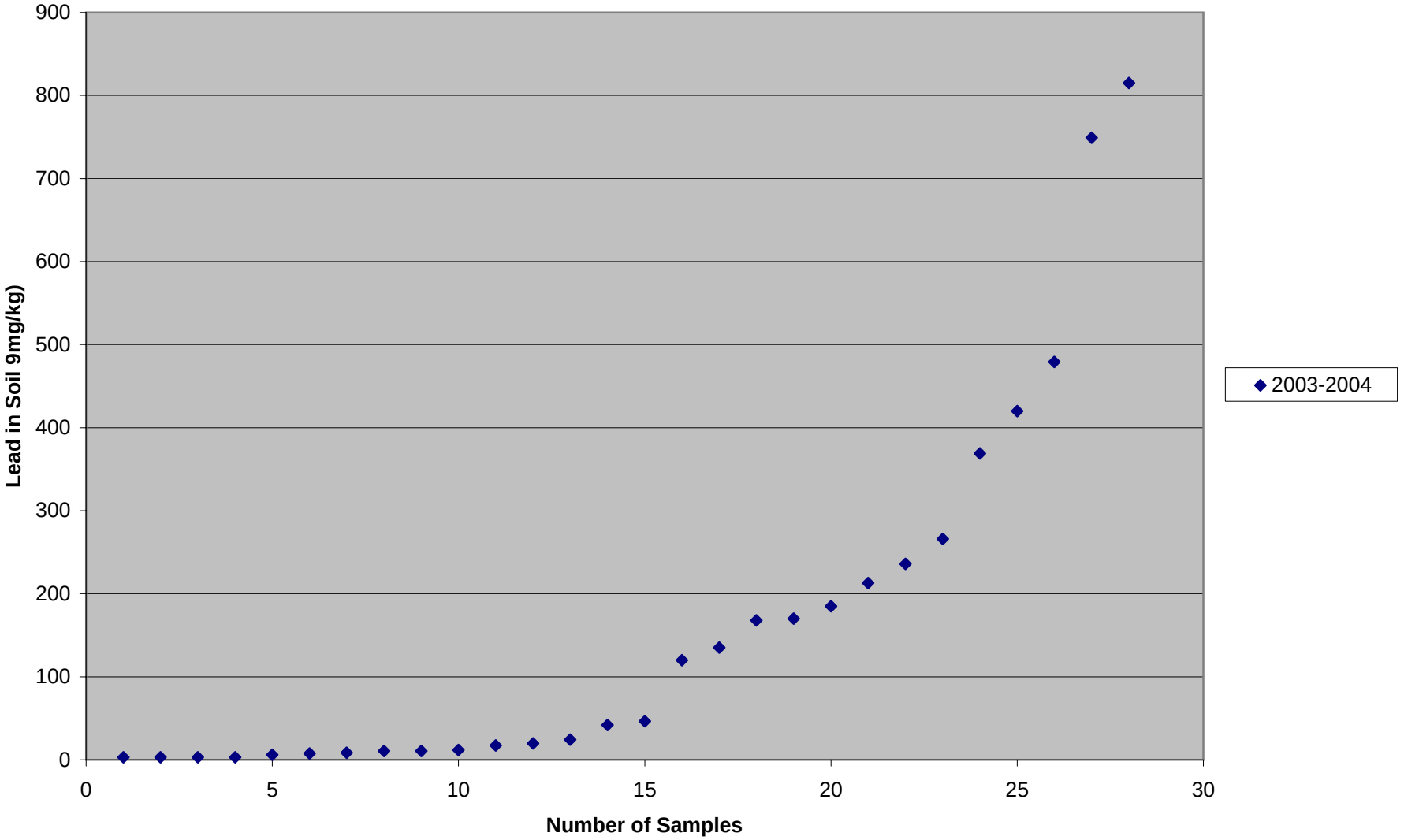
PAOC 29 Remedial Investigation Lead Data - All Samples



PAOC 29 Remedial Investigation Lead Data - Onsite Samples



PAOC 29 Remedial Investigation Lead Data - Offsite Samples



ARCADIS

Appendix C

Distribution of Volatile Organic Compounds in Soil and Groundwater from Previous Investigations

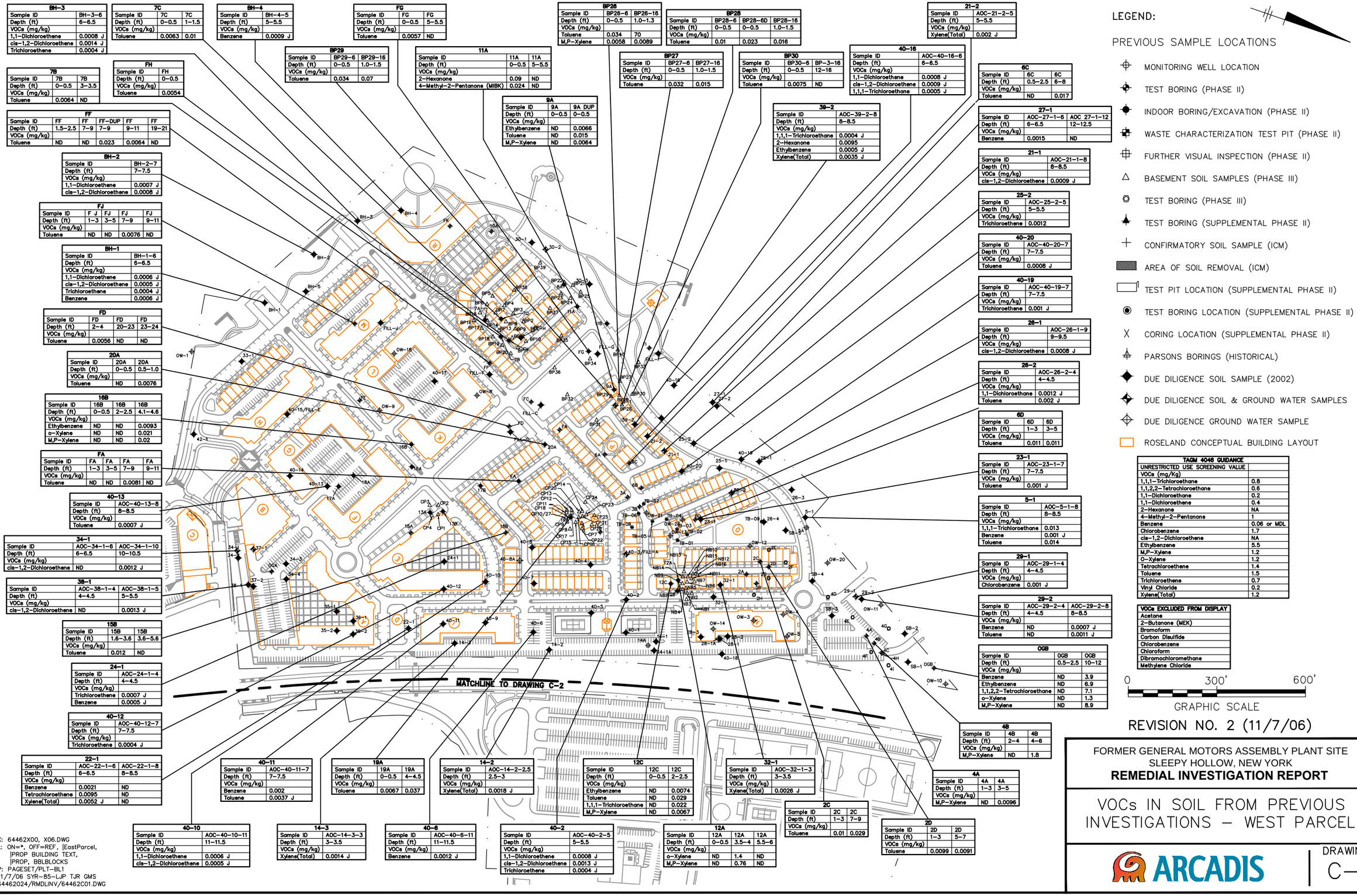
Appendix C

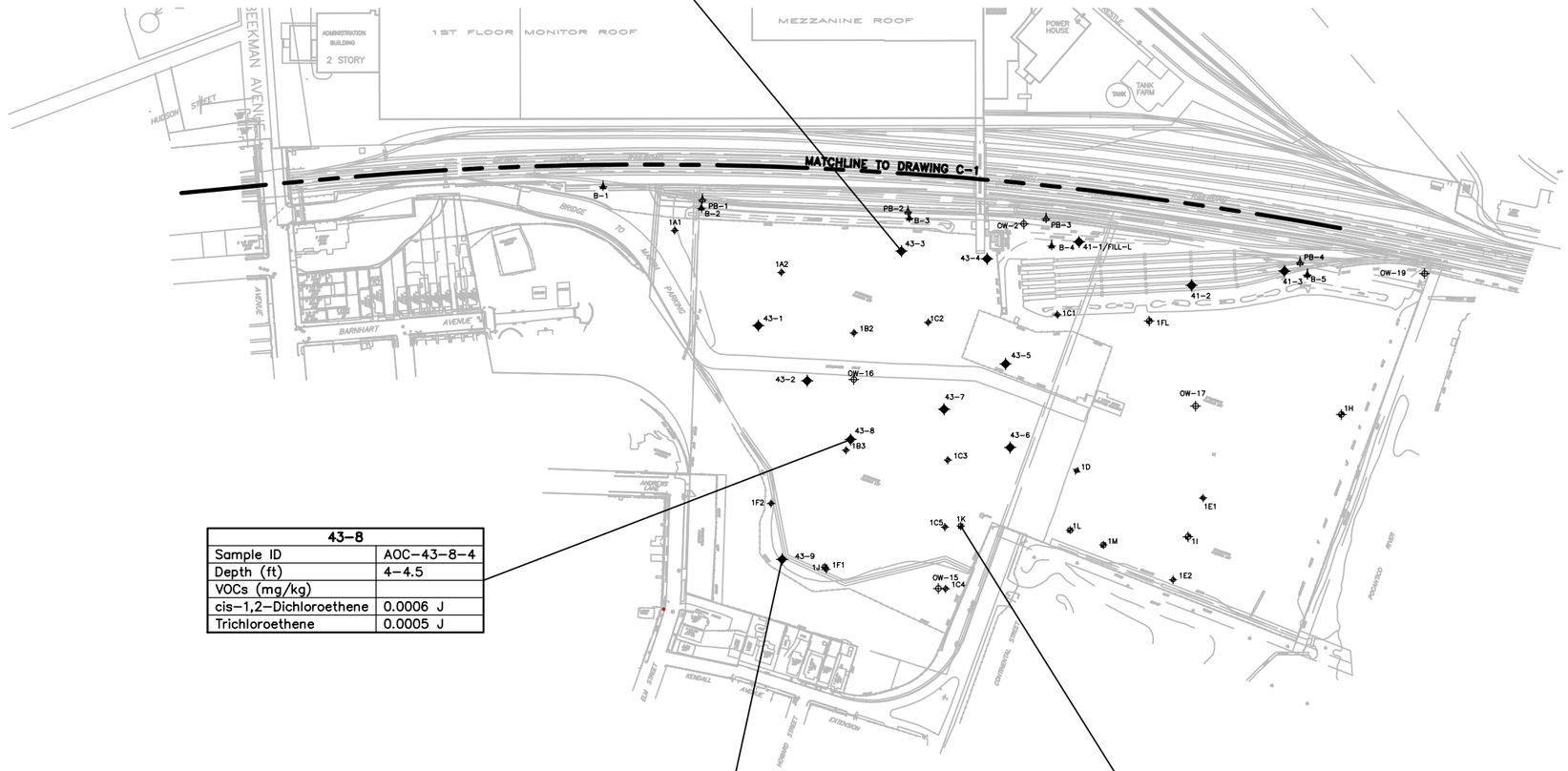
Distribution of Volatile Organic Compounds in Soil and Groundwater from Previous Investigations

Appendix Figure C -1: VOCs in Soil from Previous Investigations – West Parcel

Appendix Figure C -2: VOCs in Soil from Previous Investigations – East Parcel

Appendix Figure C -3: VOCs in Groundwater from Previous Investigations


BH-3
Sample ID | BH-3-6
Depth (ft) | 6-6.5
VOCs (mg/kg) |
1,1-Dichloroethene | 0.0008 J
cis-1,2-Dichloroethene | 0.0014 J
Trichloroethene | 0.0004 J
7C
Sample ID | 7C | 7C
Depth (ft) | 0-0.5 | 1-1.5
VOCs (mg/kg) | |
Toluene | 0.0063 | 0.01
BH-4
Sample ID | BH-4-5
Depth (ft) | 5-5.5
VOCs (mg/kg) |
Benzene | 0.0009 J
FC
Sample ID | FC | FC
Depth (ft) | 0-0.5 | 5-5.5
VOCs (mg/kg) |
Toluene | 0.0057 | ND
BP28
Sample ID | BP26-6 | BP26-16
Depth (ft) | 0-0.5 | 1.0-1.3
VOCs (mg/kg) | |
Toluene | 0.034 | 70
M,P-Xylene | 0.0058 | 0.0089
BP28
Sample ID | BP28-6 | BP28-6D | BP28-16
Depth (ft) | 0-0.5 | 0-0.5 | 1.0-1.5
VOCs (mg/kg) | | |
Toluene | 0.01 | 0.023 | 0.016
21-2
Sample ID | AOC-21-2-5
Depth (ft) | 5-5.5
VOCs (mg/kg) |
Xylene(Total) | 0.002 J
BP29
Sample ID | BP29-6 | BP29-16
Depth (ft) | 0-0.5 | 1.0-1.5
VOCs (mg/kg) | |
Toluene | 0.034 | 0.07
11A
Sample ID | 11A | 11A
Depth (ft) | 0-0.5 | 5-5.5
VOCs (mg/kg) | |
2-Hexanone | 0.09 | ND
4-Methyl-2-Pentanone (MIBK) | 0.024 | ND
BP27
Sample ID | BP27-6 | BP27-16
Depth (ft) | 0-0.5 | 1.0-1.5
VOCs (mg/kg) | |
Toluene | 0.032 | 0.015
BP30
Sample ID | BP30-6 | BP-3-16
Depth (ft) | 0-0.5 | 12-16
VOCs (mg/kg) | |
Toluene | 0.0075 | ND
40-16
Sample ID | AOC-40-16-6
Depth (ft) | 6-6.5
VOCs (mg/kg) |
1,1-Dichloroethene | 0.0008 J
cis-1,2-Dichloroethene | 0.0009 J
1,1,1-Trichloroethane | 0.0005 J
9A
Sample ID | 9A | 9A DUP
Depth (ft) | 0-0.5 | 0-0.5
VOCs (mg/kg) |
Ethylbenzene | ND | 0.0066
Toluene | ND | 0.015
M,P-Xylene | ND | 0.0064
39-2
Sample ID | AOC-39-2-8
Depth (ft) | 8-8.5
VOCs (mg/kg) |
1,1,1-Trichloroethane | 0.0004 J
2-Hexanone | 0.0095
Ethylbenzene | 0.0005 J
Xylene(Total) | 0.0035 J
6C
Sample ID | 6C | 6C
Depth (ft) | 0.5-2.5 | 6-8
VOCs (mg/kg) |
Toluene | ND | 0.017
7B
Sample ID | 7B | 7B
Depth (ft) | 0-0.5 | 3-3.5
VOCs (mg/kg) |
Toluene | 0.0064 | ND
FH
Sample ID | FH
Depth (ft) | 0-0.5
VOCs (mg/kg) |
Toluene | 0.0054
FF
Sample ID | FF | FF | FF-DUP | FF | FF
Depth (ft) | 1.5-2.5 | 7-9 | 7-9 | 9-11 | 19-21
VOCs (mg/kg) |
Toluene | ND | ND | 0.023 | 0.0064 | ND
27-1
Sample ID | AOC-27-1-6 | AOC 27-1-12
Depth (ft) | 6-6.5 | 12-12.5
VOCs (mg/kg) |
Benzene | 0.0015 | ND
BH-2
Sample ID | BH-2-7
Depth (ft) | 7-7.5
VOCs (mg/kg) |
1,1-Dichloroethene | 0.0007 J
cis-1,2-Dichloroethene | 0.0008 J
21-1
Sample ID | AOC-21-1-8
Depth (ft) | 8-8.5
VOCs (mg/kg) |
cis-1,2-Dichloroethene | 0.0009 J
FJ
Sample ID | F J | FJ | FJ | FJ
Depth (ft) | 1-3 | 3-5 | 7-9 | 9-11
VOCs (mg/kg) |
Toluene | ND | ND | 0.0076 | ND
25-2
Sample ID | AOC-25-2-5
Depth (ft) | 5-5.5
VOCs (mg/kg) |
Trichloroethene | 0.0012
BH-1
Sample ID | BH-1-6
Depth (ft) | 6-6.5
VOCs (mg/kg) |
1,1-Dichloroethene | 0.0006 J
cis-1,2-Dichloroethene | 0.0005 J
Trichloroethene | 0.0004 J
Benzene | 0.0006 J
40-20
Sample ID | AOC-40-20-7
Depth (ft) | 7-7.5
VOCs (mg/kg) |
Toluene | 0.0008 J
40-19
Sample ID | AOC-40-19-7
Depth (ft) | 7-7.5
VOCs (mg/kg) |
Trichloroethene | 0.001 J
FD
Sample ID | FD | FD | FD
Depth (ft) | 2-4 | 20-23 | 23-24
VOCs (mg/kg) |
Toluene | 0.0056 | ND | ND
26-1
Sample ID | AOC-26-1-9
Depth (ft) | 9-9.5
VOCs (mg/kg) |
cis-1,2-Dichloroethene | 0.0008 J
20A
Sample ID | 20A | 20A
Depth (ft) | 0-0.5 | 0.5-1.0
VOCs (mg/kg) |
Toluene | ND | 0.0076
26-2
Sample ID | AOC-26-2-4
Depth (ft) | 4-4.5
VOCs (mg/kg) |
1,1-Dichloroethane | 0.0012 J
Toluene | 0.002 J
16B
Sample ID | 16B | 16B | 16B
Depth (ft) | 0-0.5 | 2-2.5 | 4.1-4.6
VOCs (mg/kg) |
Ethylbenzene | ND | ND | 0.0093
o-Xylene | ND | ND | 0.021
M,P-Xylene | ND | ND | 0.02
6D
Sample ID | 6D | 6D
Depth (ft) | 1-3 | 3-5
VOCs (mg/kg) |
Toluene | 0.011 | 0.011
FA
Sample ID | FA | FA | FA | FA
Depth (ft) | 1-3 | 3-5 | 7-9 | 9-11
VOCs (mg/kg) |
Toluene | ND | ND | 0.0081 | ND
23-1
Sample ID | AOC-23-1-7
Depth (ft) | 7-7.5
VOCs (mg/kg) |
Toluene | 0.001 J
40-13
Sample ID | AOC-40-13-8
Depth (ft) | 8-8.5
VOCs (mg/kg) |
Toluene | 0.0007 J
5-1
Sample ID | AOC-5-1-8
Depth (ft) | 8-8.5
VOCs (mg/kg) |
1,1,1-Trichloroethane | 0.013
Benzene | 0.001 J
Toluene | 0.014
34-1
Sample ID | AOC-34-1-6 | AOC-34-1-10
Depth (ft) | 6-6.5 | 10-10.5
VOCs (mg/kg) |
cis-1,2-Dichloroethene | ND | 0.0012 J
29-1
Sample ID | AOC-29-1-4
Depth (ft) | 4-4.5
VOCs (mg/kg) |
Chlorobenzene | 0.001 J
38-1
Sample ID | AOC-38-1-4 | AOC-38-1-5
Depth (ft) | 4-4.5 | 5-5.5
VOCs (mg/kg) |
cis-1,2-Dichloroethene | ND | 0.0013 J
29-2
Sample ID | AOC-29-2-4 | AOC-29-2-8
Depth (ft) | 4-4.5 | 8-8.5
VOCs (mg/kg) |
Benzene | ND | 0.0007 J
Toluene | ND | 0.0011 J
15B
Sample ID | 15B | 15B
Depth (ft) | 1.6-3.6 | 3.6-5.6
VOCs (mg/kg) |
Toluene | 0.012 | ND
OGB
Sample ID | OGB | OGB
Depth (ft) | 0.5-2.5 | 10-12
VOCs (mg/kg) |
Benzene | ND | 3.9
Ethylbenzene | ND | 6.9
1,1,2,2-Tetrachloroethane | ND | 7.1
o-Xylene | ND | 1.3
M,P-Xylene | ND | 8.9
24-1
Sample ID | AOC-24-1-4
Depth (ft) | 4-4.5
VOCs (mg/kg) |
Trichloroethene | 0.0007 J
Benzene | 0.0005 J
40-12
Sample ID | AOC-40-12-7
Depth (ft) | 7-7.5
VOCs (mg/kg) |
Trichloroethene | 0.0004 J
4B
Sample ID | 4B | 4B
Depth (ft) | 2-4 | 4-6
VOCs (mg/kg) |
M,P-Xylene | ND | 1.8
22-1
Sample ID | AOC-22-1-6 | AOC-22-1-8
Depth (ft) | 6-6.5 | 8-8.5
VOCs (mg/kg) |
Benzene | 0.0021 | ND
Tetrachloroethene | 0.0095 | ND
Xylene(Total) | 0.0052 J | ND
40-11
Sample ID | AOC-40-11-7
Depth (ft) | 7-7.5
VOCs (mg/kg) |
Benzene | 0.002
Toluene | 0.0037 J
19A
Sample ID | 19A | 19A
Depth (ft) | 0-0.5 | 4-4.5
VOCs (mg/kg) |
Toluene | 0.0067 | 0.037
14-2
Sample ID | AOC-14-2-2.5
Depth (ft) | 2.5-3
VOCs (mg/kg) |
Xylene(Total) | 0.0018 J
12C
Sample ID | 12C | 12C
Depth (ft) | 0-0.5 | 2-2.5
VOCs (mg/kg) |
Ethylbenzene | ND | 0.0074
Toluene | ND | 0.029
1,1,1-Trichloroethane | ND | 0.022
M,P-Xylene | ND | 0.0067
32-1
Sample ID | AOC-32-1-3
Depth (ft) | 3-3.5
VOCs (mg/kg) |
Xylene(Total) | 0.0026 J
4A
Sample ID | 4A | 4A
Depth (ft) | 1-3 | 3-5
VOCs (mg/kg) |
M,P-Xylene | ND | 0.0096
2C
Sample ID | 2C | 2C
Depth (ft) | 1-3 | 7-9
VOCs (mg/kg) |
Toluene | 0.01 | 0.029
2D
Sample ID | 2D | 2D
Depth (ft) | 1-3 | 5-7
VOCs (mg/kg) |
Toluene | 0.0099 | 0.0091
40-10
Sample ID | AOC-40-10-11
Depth (ft) | 11-11.5
VOCs (mg/kg) |
1,1-Dichloroethene | 0.0006 J
cis-1,2-Dichloroethene | 0.0005 J
14-3
Sample ID | AOC-14-3-3
Depth (ft) | 3-3.5
VOCs (mg/kg) |
Xylene(Total) | 0.0014 J
40-6
Sample ID | AOC-40-6-11
Depth (ft) | 11-11.5
VOCs (mg/kg) |
Benzene | 0.0012 J
40-2
Sample ID | AOC-40-2-5
Depth (ft) | 5-5.5
VOCs (mg/kg) |
1,1-Dichloroethene | 0.0008 J
cis-1,2-Dichloroethene | 0.0013 J
Trichloroethene | 0.0004 J
12A
Sample ID | 12A | 12A | 12A
Depth (ft) | 0-0.5 | 3.5-4 | 5.5-6
VOCs (mg/kg) |
o-Xylene | ND | 1.4 | ND
M,P-Xylene | ND | 0.76 | ND
MATCHLINE TO DRAWING C-2
LEGEND:
PREVIOUS SAMPLE LOCATIONS
MONITORING WELL LOCATION
TEST BORING (PHASE II)
INDOOR BORING/EXCAVATION (PHASE II)
WASTE CHARACTERIZATION TEST PIT (PHASE II)
FURTHER VISUAL INSPECTION (PHASE II)
BASEMENT SOIL SAMPLES (PHASE III)
TEST BORING (PHASE III)
TEST BORING (SUPPLEMENTAL PHASE II)
CONFIRMATORY SOIL SAMPLE (ICM)
AREA OF SOIL REMOVAL (ICM)
TEST PIT LOCATION (SUPPLEMENTAL PHASE II)
TEST BORING LOCATION (SUPPLEMENTAL PHASE II)
CORING LOCATION (SUPPLEMENTAL PHASE II)
PARSONS BORINGS (HISTORICAL)
DUE DILIGENCE SOIL SAMPLE (2002)
DUE DILIGENCE SOIL & GROUND WATER SAMPLES
DUE DILIGENCE GROUND WATER SAMPLE
ROSELAND CONCEPTUAL BUILDING LAYOUT
TAGM 4046 GUIDANCE
UNRESTRICTED USE SCREENING VALUE
VOCs (mg/Kg)
1,1,1-Trichloroethane 0.8
1,1,2,2-Tetrachloroethane 0.6
1,1-Dichloroethene 0.2
1,1-Dichloroethene 0.4
2-Hexanone NA
4-Methyl-2-Pentanone 1
Benzene 0.06 or MDL
Chlorobenzene 1.7
cis-1,2-Dichloroethene NA
Ethylbenzene 5.5
M,P-Xylene 1.2
O-Xylene 1.2
Tetrachloroethene 1.4
Toluene 1.5
Trichloroethene 0.7
Vinyl Chloride 0.2
Xylene(Total) 1.2
VOCs EXCLUDED FROM DISPLAY
Acetone
2-Butanone (MEK)
Bromoform
Carbon Disulfide
Chlorobenzene
Chloroform
Dibromochloromethane
Methylene Chloride
0
300'
600'
GRAPHIC SCALE
REVISION NO. 2 (11/7/06)
FORMER GENERAL MOTORS ASSEMBLY PLANT SITE
SLEEPY HOLLOW, NEW YORK
REMEDIAL INVESTIGATION REPORT
VOCs IN SOIL FROM PREVIOUS INVESTIGATIONS – WEST PARCEL
ARCADIS
DRAWING
C-1
CTTY:(Read) DIV/GROUP:(Read) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* G:\ENVCAD\SYRACUSE\ACTIB0064462\000\100024\DWG\RMDLINV\64462C01.DWG LAYOUT: SOIL SAMPLES SAVED: 1/26/2012 12:08 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF-BL PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/26/2012 2:13 PM BY: HOWES, DAVID
PROJECTNAME: ----
IMAGES:
XREFS:
64462x00
64462x06
X: 64462X00, X06.DWG
L: ON=*, OFF=REF, |EastParcel, |PROP BUILDING TEXT, |PROP, BBLBLOCKS
P: PAGESET/PLT-BL1
11/7/06 SYR-85-LJP TJR GMS
64462024/RMDLINV/64462C01.DWG



43-3	
Sample ID	AOC-43-3-4
Depth (ft)	4-4.5
VOCs (mg/kg)	
cis-1,2-Dichloroethene	0.0004 J

43-8	
Sample ID	AOC-43-8-4
Depth (ft)	4-4.5
VOCs (mg/kg)	
cis-1,2-Dichloroethene	0.0006 J
Trichloroethene	0.0005 J

43-9		
Sample ID	AOC-43-9-7	
Depth (ft)	7-7.5	
VOCs (mg/kg)		
Vinyl Chloride	0.17	
cis-1,2-Dichloroethene	500 J	
Trichloroethene	0.56	
Tetrachloroethene	0.2	

1K			
Sample ID	1K	1K-EXT	1K-EXT
Depth (ft)	5-7	0.5-2	6-7
VOCs (mg/kg)			
1,1,2,2-Tetrachloroethane	ND	ND	1.3

LEGEND:

PREVIOUS SAMPLE LOCATIONS

- MONITORING WELL LOCATION
- TEST BORING (PHASE II)
- INDOOR BORING/EXCAVATION (PHASE II)
- WASTE CHARACTERIZATION TEST PIT (PHASE II)
- FURTHER VISUAL INSPECTION (PHASE II)
- BASEMENT SOIL SAMPLES (PHASE III)
- TEST BORING (PHASE III)
- TEST BORING (SUPPLEMENTAL PHASE II)
- CONFIRMATORY SOIL SAMPLE (ICM)
- AREA OF SOIL REMOVAL (ICM)
- 1 TEST PIT LOCATION (SUPPLEMENTAL PHASE II)
- TEST BORING LOCATION (SUPPLEMENTAL PHASE II)
- CORING LOCATION (SUPPLEMENTAL PHASE II)
- PARSONS BORINGS (HISTORICAL)
- DUE DILIGENCE SOIL SAMPLE (2002)
- DUE DILIGENCE SOIL & GROUND WATER SAMPLES
- DUE DILIGENCE GROUND WATER SAMPLE

TAGM 4046 GUIDANCE	
UNRESTRICTED USE SCREENING VALUE	
VOCs (mg/Kg)	
1,1,1-Trichloroethane	0.8
1,1,2,2-Tetrachloroethane	0.6
1,1-Dichloroethane	0.2
1,1-Dichloroethene	0.4
2-Hexanone	NA
4-Methyl-2-Pentanone	1
Benzene	0.06 or MDL
Chlorobenzene	1.7
cis-1,2-Dichloroethene	NA
Ethylbenzene	5.5
M,P-Xylene	1.2
O-Xylene	1.2
Tetrachloroethene	1.4
Toluene	1.5
Trichloroethene	0.7
Vinyl Chloride	0.2
Xylene(Total)	1.2

VOCs EXCLUDED FROM DISPLAY
Acetone
2-Butanone (MEK)
Bromoform
Carbon Disulfide
Chlorobenzene
Chloroform
Dibromochloromethane
Methylene Chloride

0 300' 600'

GRAPHIC SCALE

FORMER GENERAL MOTORS ASSEMBLY PLANT SITE
SLEEPY HOLLOW, NEW YORK
REMEDIAL INVESTIGATION REPORT

VOCs IN SOIL FROM PREVIOUS INVESTIGATIONS – EAST PARCEL

ARCADIS

DRAWING C-2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(On)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0064462\0001\00024\DWG\RMDLINV\64462C03.DWG LAYOUT: SOIL SAMPLES SAVED: 10/26/2005 3:15 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF-BL PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/26/2012 2:13 PM BY: HOWES, DAVID
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amec_logo5.jpg
XREFS: X: 64462X00, X04.DWG
64462X00 L: ON=*, OFF=REF
64462X04 P: PAGESET/PLT-BL1
10/26/05 SYR-85-LJP TJR
64462024/RMDLINV/64462C03.DWG

OW-7		
Sample ID	OW-7	OW-7
Date	8/13/2002	12/96
VOCs (ug/L)		
Carbon Disulfide	1.0 J	ND

OW-18		
Sample ID	OW-18	OW-18
Date	8/12/2002	12/96
VOCs (ug/L)	ND	ND

OW-8		
Sample ID	OW-8	OW-8
Date	8/12/2002	12/96
VOCs (ug/L)	ND	ND

OW-9		
Sample ID	OW-9	OW-9
Date	8/12/2002	12/96
VOCs (ug/L)	ND	ND

34-1	
Sample ID	WP-34-1
Date	8/13/2002
VOCs (ug/L)	ND

37-1	
Sample ID	WP-37-1
Date	8/13/2002
VOCs (ug/L)	
Carbon Disulfide	0.6 J

40-8A		
Sample ID	WP-40-8A	Duplicate
Date	8/12/2002	8/12/2002
VOCs (ug/L)		
Benzene	ND	5.4
Xylene (total)	ND	20

40-3	
Sample ID	WP-40-3
Date	8/12/2002
VOCs (ug/L)	ND

OW-13			
Sample ID	OW-13	OW-13	Duplicate
VOCs (ug/L)			
Date	12/96	March/April 1996	
Acetone	ND	44	59
Benzene	92	76	81
Toluene	ND	6.8	ND
M+P-Xylene	ND	7.9	9.6
2-Methylnaphthalene	ND	54	54

30-2	
Sample ID	WP-30-2
Date	08/13/02
VOCs (ug/L)	ND

OW-6	
Sample ID	OW-6
Date	12/96
VOCs (ug/L)	ND

39-1	
Sample ID	WP-39-1
Date	08/13/02
VOCs (ug/L)	
Benzene	2.1

21-1	
Sample ID	WP-21-1
Date	8/12/2002
VOCs (ug/L)	ND

OW-21	
Sample ID	OW-21
Date	March/April 1997
VOCs (ug/L)	ND

OW-23	
Sample ID	OW-23
Date	March/April 1997
VOCs (ug/L)	ND

26-2	
Sample ID	WP-26-2
Date	08/13/02
VOCs (ug/L)	
Chloroethane	16
1,1-Dichloroethene	6.8
1,1-Dichloroethane	10

OW-22	
Sample ID	OW-22
VOCs (ug/L)	
Date	March/April 1997
Acetone	36
Benzene	14
2-Hexanone	11
m,p-Xylene	5.1

OW-12	
Sample ID	OW-12
Date	12/96
VOCs (ug/L)	ND

OW-14	
Sample ID	OW-14
Date	12/96
VOCs (ug/L)	ND

OW-20	
Sample ID	OW-20
VOCs (ug/L)	
Date	March/April 1997
Acetone	25

29-1	
Sample ID	WP-29-1
Date	8/12/2002
VOCs (ug/L)	ND

OW-11		
Sample ID	OW-11	OW-11
Date	12/96	8/12/2002
VOCs (ug/L)	ND	ND

OW-10		
Sample ID	OW-10	
VOCs (ug/L)		
Date	12/96	8/12/02
Benzene	24	6.2
Chlorobenzene	ND	3.3 J
Ethylbenzene	17	ND
m+p-Xylene	11	ND

OW-19	
Sample ID	OW-19
Date	March/April 1997
VOCs (ug/L)	ND

OW-3	
Sample ID	OW-3
Date	12/96
VOCs (ug/L)	ND

OW-16		
Sample ID	OW-16	
Date	12/96	8/13/02
VOCs (ug/L)	ND	ND

OW-2	
Sample ID	OW-2
Date	12/96
VOCs (ug/L)	ND

OW-15	
Sample ID	OW-15
Date	12/96
VOCs (ug/L)	ND

28-1A		
Sample ID	WP-28-1A	
Date	8/13/2002	
VOCs (ug/L)	ND	

OW-17		
Sample ID	OW-17	
Date	12/960	8/13/02
VOCs (ug/L)	ND	ND

LEGEND:

PREVIOUS SAMPLE LOCATIONS

- MONITORING WELL LOCATION
- TEST BORING (PHASE II)
- INDOOR BORING/EXCAVATION (PHASE II)
- WASTE CHARACTERIZATION TEST PIT (PHASE II)
- FURTHER VISUAL INSPECTION (PHASE II)
- BASEMENT SOIL SAMPLES (PHASE III)
- TEST BORING (PHASE III)
- TEST BORING (SUPPLEMENTAL PHASE II)
- CONFIRMATORY SOIL SAMPLE (ICM)
- AREA OF SOIL REMOVAL (ICM)
- 1 TEST PIT LOCATION (SUPPLEMENTAL PHASE II)
- TEST BORING LOCATION (SUPPLEMENTAL PHASE II)
- CORING LOCATION (SUPPLEMENTAL PHASE II)
- PARSONS BORINGS (HISTORICAL)
- DUE DILIGENCE SOIL SAMPLE (2002)
- DUE DILIGENCE SOIL & GROUND WATER SAMPLES
- DUE DILIGENCE GROUND WATER SAMPLE
- ROSELAND CONCEPTUAL BUILDING LAYOUT

CLASS GA GROUNDWATER STANDARDS AND GUIDANCE	
VOCs (ug/L)	
2-Hexanone	50
2-Methylnaphthalene	NA
Acetone	50
Benzene	1
Ethylbenzene	5
M,P-Xylene	5
Xylene (total)	5

0 300' 600'

GRAPHIC SCALE

REVISION NO. 1 (10/26/05)

FORMER GENERAL MOTORS ASSEMBLY PLANT SITE
SLEEPY HOLLOW, NEW YORK
REMEDIAL INVESTIGATION REPORT

VOCs IN GROUNDWATER FROM PREVIOUS INVESTIGATIONS

ARCADIS

DRAWING C-3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF-BL PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/26/2012 2:13 PM BY: HOWES, DAVID
G:\ENVCAD\SYRACUSE\ACTIVE\B0064462\0001\00024\DWG\RMDLINV\64462C02.DWG LAYOUT: GW SAMPLES SAVED: 10/26/2005 1:31 PM
IMAGES: PROJECTNAME: ---
amec_logo5.jpg
XREFS: X: 64462X00, X04.DWG
64462x00 L: ON=*, OFF=REF
64462x06 P: PAGESET/PLT-BL1
10/26/05 SYR-85-LJP TJR
64462024/RMDLINV/64462C02.DWG

ARCADIS

Appendix D

Soil Boring Logs – Remedial Investigation

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B1	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID ppm)
					Black Asphalt - 6"				
					Gray cmf SAND, little silt				0.0
1					w/ Pieces of Rock etc	F			
					Dark Gray mf SAND, little				
					Silt, trace mf Gravel w/				
2			75		Pieces of shell	F			0.0
					w/ pieces of Rock				
3									
	A				Dark Brown mf SAND &				
					Silt, trace clay w/ pieces of	F			
4					Rock				
					Brown cmf SAND, little				6.2
					Silt, trace clay w/ piece	F			
5					of Rock				
6			79						
	B				Dark Gray & Brown cmf				0.0
					SAND, little Silt, trace mf	F			
7					Gravel				GWL-7.5
8									
					Brownish yellow mf SAND,				0.2
					little Silt, trace clay, trace	SP			
9	C				mf Gravel w/ pieces of shell				
10			88						
					Dark Brown cmf SAND,				0.0
					little Silt, trace mf Gravel	SP			
11					w/ pieces of shell				
12	D								0.3

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276630000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B-1	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
13					Gray mf SAND, little Silt, trace clay, trace f Gravel	SP			
					Dark Gray mf SAND, little Silt, trace f Gravel				0.3
14			83						
					wf pieces of white shell				
15									
					wf pieces of white shell				
16					Brownish yellow SILT (Organic) wf decomposed wood	PT			0.0
17									
18			100						
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276630000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B2	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID CPPM
0					Black Asphalt - 6"				
					Dark Gray cmf SAND, trace Silt & mf Gravel & piece of Rock wood etc	F			0.0
1									
2			63						
					Gray cmf SAND, some Gravel, trace clay & piece of Rock, wood cinder etc	F			0.6
3									
A 4	A				Brown cmf SAND, little Silt, trace f Gravel & piece of Rock, wood etc	F			0.0
5									
6			75		Dark Gray & Brown cmf SAND, little mf Gravel, trace Silt & pieces of Rock.	F			
7									
	B								
8					Brownish yellow mf SAND, little Silt, trace clay, trace mf Gravel & shell	SP			0.0
9									
10			80		Brown cmf SAND, some Silt, trace mf Gravel & pieces of shell	SP			0.0
11	C								
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276890000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B2	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Gray mf SAND, little Silt trace clay, trace f Gravel				0.0 PID CPPM?
14	D				Dark Gray mf SAND, little Silt, trace f Gravel				
15	E				by Piece of Shell				
16					by shell Brownish yellow SILT by decomposed wood	pt			0.0
17									
18									
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B3	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
1					6" Asphalt- Dark Gray & Brown mf SAND, little Silt, trace mf Gravel & piece of shell				0.0
2					& mf Gravel & shell				
3					Dark Brown cmf SAND, little Silt, mf Gravel & piece of rock and shell				0.0
4	A				Gray SILT, little f Sand, Brown cmf SAND, little Silt				0.0
5									
6									
7					Dark Gray & Brown cmf SAND, little Silt, trace clay trace mf Gravel	F			0.0
8	B				Dark Gray cmf SAND, little Silt, trace clay, trace f Gravel	SP			0.0
9									
10									
11					Dark Gray mf SAND, little Silt, trace mf Gravel.	SP			0.0
12	C								

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B3	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
13					Dark Gray cmf SAND, trace silt, trace clay, trace cmf sa. Gravel.	SP			0.0
14	D				Dark Gray mf SAND, little silt, trace f Gravel, trace clay	SP			0.0
15	E				Dark Gray cmf SAND, little silt, trace f Gravel & clay	SP			0.0
16					Brown Organic SILT of decomposed wood	Pt			
17									
18									6.5
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B4	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
0					Asphalt - 6"				
					Dark Gray & Brown cmf SAND, little cmf Gravel, trace silt & Pieces of wood rock. cinder etc	F			0.0
1									
2									
3					Dome Brown cmf SAND, little Silt & mf Gravel & Pieces of Rock wood, glass etc	F			0.0
4	A				Gray SILT, little f Sand little mf Gravel				
5					& Pieces of Rock, wood glass etc				
6						F			
7					Dark Gray cmf SAND, little mf Gravel, trace silt & clay				0.0
8	B				Dark Gray cmf SAND, trace Silt & mf Gravels	SP			
9									
10					Dark Gray & Brown mf SAND, some Silt, trace f Gravel	SP			0.0
11	C								
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-1-B4	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Gray cmf SAND little mf Gravel, trace silt-				PID (ppm) 0.0
14	D				Dark Gray mf SAND, little Silt, trace f Gravel, trace clay				0.0
15	E				Dark Gray cmf SAND, little Silt, trace f Gravel				
16					Brown SILT w decom.	pt			0.0
17					osed wood				
18									
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-1-B5	COORDINATES:		DATE:	10/06/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 6 ft	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:05
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.8 ft. asphalt & crushed stone		0		
1					0.8-2.8 ft. FILL lt brown to olive gray f. SAND, tr. shells, tr. gravel, moist		0		
2			2.8				0		
3					2.8-3.9 ft. FILL dk. gray sandy SILT, moist		0		
					FILL 3.9-4.0 ft. concrete fragments				
4					4.0-6.0 ft. FILL dk. gray gravelly, f. SAND, tr. coal ash, tr. glass, moist		0		
5	X						0		Sample SI-1-B5-A-1 & Duplicate at 4.8-6.0 ft.
			3.5						
6					6.0-8.0 ft. solid mass of wood, gray, saturated.		0		
7							0		
8					8.0-11.5 ft. dk. gray clayey f. SAND, saturated.		0		
9							0		
10			~3.5				0		
11							0		
12					11.5-12.0 ft. dk brown PEAT, some f-m sand, saturated.				

NOTES:

Note: hit refusal (wood at 6") at original SI-1-B5 location; This hole offset 8" to SW.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-1-B5	COORDINATES:	DATE:	10/06/03
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 6 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:05
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			~3.5		12.0-15.5 ft. dark brown PEAT, stiff, moist, w./ well preserved roots and leaves.		0 0 0		
15					15.5-16.0 ft. lt. brown f-m SAND, saturated.		0		
16					**E.O.B. at 16.0 feet**				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-1-B6	COORDINATES:	DATE: 10/06/03	
ELEVATION / DATUM:	GWL: Depth: 6 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. asphalt & crushed stone				
1					0.5-3.0 ft. FILL lt to dk. gray f. SAND, tr.oyster shells, moist		0		
2			3.0						Sample SI-1-B6-A at 2.4-2.9 ft.
3	X						0		
					3.0-3.2 ft FILL black coal ash, tr. glass, moist.		0		
					3.2-3.8 ft. FILL olive-gray f. silty SAND, moist		0		
4					3.8-4.0 ft. FILL concrete fragments, moist				
5					4.0-6.0 ft. FILL lt. brown to gray f. SAND, some gravel, tr. shells, moist.		0		
6			3.0						
	X				6.0-7.7 ft. FILL coal ash, glass, ceramic material, saturated.		0		Sample SI-I-B6-B at 6.0-6.4 ft.
7	X								Sample SI-I-B6-C at 7.0-7.4 ft.
8	X				7.7-8.0 ft. black, organic muck w./ wood, tr, glass, saturated.				Sample SI-1-B6-D at 7.7-8.0 ft.
9					8.0-10.5 ft. dk. gray f. SAND, saturated		0		
10			~3				0		
11					10.5-11.5 lt. layer of solid wood, dry, fresh.		0		
12					11.5-12.0 ft. dk. brown PEAT, tr. f. sand, saturated.		0		

NOTES: **E.O.B. at 12.0 feet (refusal - wood obstruction)**

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-1-B7	COORDINATES:		DATE:	10/06/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 6 ft	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. asphalt & crushed stone				
1					0.5-3.2 ft. FILL lt. brown to gray f. SAND, tr. oyster shells, tr. gravel, moist.		0		
2									
3							0		
					3.2-3.6 ft. dk brn, silty f. SAND, moist.		0		
4					3.6-4.0 ft. dk brn. f. SAND to silty SAND, moist				
5					4.0-6.0 ft. dk. brown f. SAND, tr. gravel, moist		0		
6			3.7	▽					
	☒			###	6.0-7.5 ft. FILL coal ash, glass, ceramic material, coal, saturated.		0		Sample SI-1-B7-A at 6.0-6.4 ft.
7	☒			###			0		Sample SI-1-B7-B at 7.0-7.4 ft.
8					7.5-8.0 ft. 1" of PEAT, then dk. gray f. SAND below, saturated.				
9					8.0-12.0 ft. poor recovery 1 piece of wood w./ bark recovered, fresh, (probable running sand).				
10			0.5						
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-1-B7	COORDINATES:		DATE:	10/06/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 6 ft	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					12.0-12.2 ft. dk. brwon f-m SAND, saturated.		0		
13					12.2-14.4 ft. dk. brown PEAT, saturated.		0		
14			4.0				0		
					14.4-15.2 ft. m. brown f. SAND, tr. c. sand, saturated.		0		
15					15.2-15.3 ft. reddish-brown CLAY, moist				
					15.3-16.0 ft. black to dk. brown, interbedded CLAY and f. SAND, saturated.		0		
16					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-1-B8	COORDINATES:	DATE: 10/06/03	
ELEVATION / DATUM:	GWL: Depth: 7.4 ft. Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. asphalt & crushed stone		0		
1					0.5-2.8 ft. FILL med. gray-brown f. SAND, some oyster shells, tr. gravel, moist.		0		
2	☒		3.3						Sample SI-1-B8-A collected at 2.0-2.4 ft.
3					2.8-4.0 ft. FILL dk brn. silty SAND, tr. gravel, moist.		0		Sample SI-1-B8-B collected at 3.6-4.0 ft.
4	☒								
					4.0-4.6 ft. FILL dk brn. f. SAND, some shells, moist.		0		
5	☒				4.6-5.5 ft. FILL crushed stone, tr. brick fragments, hollw tile, some f-m sand, moist.		0		Sample SI-1-B8-C collected at 5.0-5.4 ft.
6			3.5		5.5-6.2 ft. FILL dk gray f-m SAND, some gravel, moist				
7	☒				6.2-7.8 ft. FILL black ash, glass, coal, moist (saturated at 7.4 ft.).		0		Sample SI-1-B8-D collected at 7.0-7.4 ft.
8	☒				8.0-11.5 ft. dk gray f. SAND, saturated.				Sample SI-1-B8-E collected at 8.0-8.4 ft.
9							0		
10			~3						
11							0		
12					11.5-12.0 ft. lt. brown f. silty SAND, saturated.				PEAT in shoe of sampler

NOTES:

E.O.B. at 12.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-1-B9	COORDINATES:		DATE:	10/06/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth:	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. asphalt & crushed stone		0		
1					0.5-3.8 ft. FILL m. brn. to lt. gray f. SAND, grades into silty f. SAND w./ depth, tr. c. sand, tr. oyster shells, moist		0		
2	☒		3.8				0		Sample SI-1-B9-A collected at 2.0-2.4 ft.
3					3.8-4.0 ft. FILL lt. brn. m-SAND, tr. gravel, moist.		0		
4					4.0-4.6 ft. FILL lt. brn. f-SAND, tr. shells, moist.		0		Sample SI-1-B9- collected at 4.6-5.0 ft.
5	☒				4.6-5.0 ft. FILL dk. gray coal ash and glass, moist.				
					5.0-5.5 ft. FILL dk gray f. SAND, moist.		0		
6	☒		4.0		5.5-7.2 ft. FILL black organic-rich muck w./ coal ash & glass, moist (saturated at 6.0 ft).		0		Sample SI-1-B9-C collected at 5.6-6.0 ft.
7	☒								Sample SI-1-B9-D collected at 6.6-7.0 ft.
8	☒				7.2-8.0 ft. dk. gray f. SAND, saturated.		0		Sample SI-1-B9-E collected at 7.6-8.0 ft.
9			~3		8.0-12.0 ft. (same as above)		0		
10							0		
11							0		
12							0		

NOTES: **E.O.B. at 12.0 feet**

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-1-B10	COORDINATES:	DATE: 10/06/03	
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 6 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. asphalt & crushed stone		0		
1					0.5-3.5 ft. FILL m. brn. to lt. gray f. SAND, some oyster shells, tr. gravel, moist		0		
2	☒		3.5						Sample SI-1-B10-A collected at 2.0-2.4 ft.
3									
					3.5-3.7 ft. FILL concrete fragments.		0		
4					3.7-4.0 ft. FILL dk gray silty f. SAND, moist		0		
5	☒		~3		4.0-6.0 ft. FILL lt gray f-m SAND, some gravel & crushed stone, moist		0		Sample SI-1-B10-B collected at 5.2-5.6 ft.
6	☒				6.0-6.5 FILL ft. dark reddish-brown SILT, stiff, saturated.		0		Sample SI-1-B10-C collected at 6.0-6.4 ft.
7					6.5-8.0 ft. FILL coal ash, coal fragments, glass, saturated.		0		
8	☒				8.0-12.0 ft. FILL dk. gray f. SAND, saturated.		0		Sample SI-1-B10-D collected at 8.0-8.4 ft.
9	☒								Sample SI-1-B10-E collected at 9.0-9.4 ft.
10			~3				0		
11									
12									

NOTES:

E.O.B. at 12.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-1-B11	COORDINATES:	DATE: 10/06/03	
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 6 ft. Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. asphalt & crushed stone				
1			3.7		0.5-4.0 ft. FILL lt. brn. gravelly f. SAND, some crushed stone, moist (layer of crushed coal 1" thick at 3 ft.)		0		
2	X								Sample SI-1-B11-A collected at 2.0-2.4 ft.
3							0		
4							0		
	X				4.0-5.5 ft. FILL dk.brn. gravelly f. SAND, tr. brick, tr. coal, tr. ash, moist.		0		Sample SI-1-B11-B collected at 4.6-5.0 ft.
5					5.5-6.0 ft. FILL dk. gray f. SAND, tr. shells, moist.		0		
6			3.6		6.0-7.5 ft. FILL dk. gray coal ash, glass, saturated.		0		
7	X								Sample SI-1-B11-C collected at 6.6-7.0 ft.
					7.5-8.0 ft. FILL black, organic rich refuse layer, w./ coal ash, saturated.		0		Sample SI-1-B11-D collected at 7.6-8.0 ft.
8	X								
9			4.0		8.0-10.0 ft. dk. gray f. SAND, saturated.		0		Sample SI-1-B11-E collected at 8.6-9.0 ft.
10							0		
					10.0-12.0 ft. lt. brown f. SAND, interlayered w./ PEAT, saturated.		0		
11									
12							0		

NOTES: **E.O.B. at 12.0 feet**

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-2-B1	COORDINATES:		DATE:	10/08/03
ELEVATION / DATUM:	at grade (millings)	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	12:49
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-2.0 ft. FILL concrete fragments and dk. gray f-m-c SAND, dry.		0		
2			2.8		2.0-4.0 ft. FILL black coal ash, sand-to-gravel sized grains, glassy blebs of clinker material, moist (wet at 3 ft)		0		
3							0		h/s = 0.6 ppm
4	X				4.0-8.0 ft. FILL (same as above) saturated.		0		Sample SI-2-B1-A at 4.0-5.0 ft.
5							0		
6			3.0						
7							0		
8					8.0-12.0 ft. FILL (same as above) saturated.				
9							0		
10			2.7						
11							0		
12									

NOTES: **E.O.B. at 12.0 ft**

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-4-B1	COORDINATES:	DATE: 10/08/03	
ELEVATION: 6.02	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
0					4" Asphalt / concrete				
1					Dark Gray cmf SAND, little Silt w/ Rock, gravel etc w/ clay				0.0
2					concrete (1.4 - 2.0')				
3			50		Coal Ash (2.0 - 4.0')				
4									
5					Black cmf SAND, little Silt w/ pieces of Coal Ash				GWL-5.0'
6	A		67						50
7					Black cmf SAND, little Silt & f Gravel, trace clay				
8					Dark Gray f SAND and SILT, trace clay	SP			0.0
9					Brown SILT (organic)	Pt			
10			75		w/ decomposed wood				
11									
12									

NOTES: End of Boring at 12.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276690000 (3C)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-6-B1	COORDINATES:	DATE: 10/08/03	
ELEVATION: 10.04	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Black & Gray cmf SAND. and mf Gravel & pieces of wood, rock, Brick, glass concrete etc	F			0.0 PPM
2			52		White & Gray concrete & mf Sand, little silt & mf Gravel				
3					Concrete, mf Gravel	F			0.0 PPM
4					Black cmf SAND & Gravel concrete				
5					Black & Brown cmf SAND little Silt & pieces of shell	F			
6			75						GWL - 7.0'
7					Dark Gray cmf SAND, little Silt, trace mf Gravel & pieces of Rock etc				
8					Black & Dark Gray cmf SAND, little mf Gravel, trace Silt & pieces of wood, Rock	F			0.0 PPM
9	A								
10			73		Bricks Gray & Brown SILT & F SAND, trace clay	F			
11					Black cmf SAND and GRAVEL little Silt, trace clay & pieces of Rock, wood etc				0.0 PPM
12									

NOTES: Refusal at 12.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276890000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B1	COORDINATES:	DATE: 10/08/03	
ELEVATION: 13.59	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Brown cmf SAND, little cmf Gravel, trace Silt & pieces of Rock wood (1.5 - 1.7')	F			0.0 ppm
2					Brown cmf SAND, little silt clay & f Gravel	F			
			63						
3					Black cmf SAND & mf Gravel trace Silt				
4					Black & Dark Brown cmf SAND, little Silt & mf Gravel & pieces of glass, concrete wood	F			GW. 5.0
5					Dark Gray cmf SAND, little mf Gravel, trace silt & clay & pieces of Rock				
6			25						
7					Black cmf SAND and GRAVEL, little Silt & pcces of Rock, glass etc.	F			1.0 ppm Oily
8					wood (9.0 - 9.5')				
9	A				Black cmf SAND, little Silt, trace clay & pieces of ROCK, wood, glass	F			
10			29						0.0 ppm
11						P			
12					End of the Boring at 12.0' (Refusal)				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B2	COORDINATES:	DATE: 10/06/03	
ELEVATION / DATUM: soil surface (in crawlspace)	GWL: Depth: 6 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-4.0 ft. FILL m. brown f. SAND, tr. c. sand, tr. shels, moist		0		approximately 8' from top of slab to soil
2			2.8				0		
3	X						0		Sample SI-7-B2-A collected at 2.6-3.0 ft.
4							0		
5					4.0-6.0 ft. FILL (same as above)		0		
6	X		2.1		6.0-8.0 ft. dk gray (gleyed) f. SAND		0		Sample SI-7-B2-B collected at 5.6-6.0 ft.
7							0		Sample SI-7-B2-C collected at 7.6-8.0 ft.
8	X								
9					8.0-12.0 ft. dk. gray silty f. SAND, tr. metal (steel wire), oily sheen, saturated.		0		poor recovery
10			0.5				0		
11							0		
12	X						0		Sample SI-7-B2-D collected at 11.6-12.0

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B2	COORDINATES:		DATE:	10/06/03
ELEVATION / DATUM:	soil surface (in crawlspace)	GWL: Depth:	6 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			0.6	### ## ### ## ### ##

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B3	COORDINATES:		DATE:	10/07/03
ELEVATION / DATUM:	soil surface (in crawlspace)	GWL: Depth:	4 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			2.0		0-1.0 ft. lt. FILL brown m-c SAND, tr. gravel, moist.		0		approximately 8' from top of slab to soil
2					1.0-2.6 ft. FILL lt. brown f. SAND. some shells, moist.		0		
3	X				2.6-3.5 ft. FILL reddish-brown, clayey SILT, moist		0		Sample SI-7-B3-A collected at 2.6-3.0 ft.
4					3.5-4.0 ft. FILL lt. brn. f-m SAND, moist		0		
5			2.0		4.0-4.5 ft. FILL lt. brn. gravelly f. SAND, saturated.		0		
6	X				4.5-8.0 ft. FILL lt. gray f-m SAND, some shells, tr. gravel, tr. glass, saturated.		0		Sample SI-7-B3-B collected at 5.6-6.0 ft.
7							0		
8			4.0		8.0-12.0 ft. FILL black, silty organic muck w./ wood, gravel, metals parts, saturated (very slight, intermittent sheen)		0		
9	X						0		Sample SI-7-B3-C collected at 8.6-9.0 ft.
10							0		
11							0		
12	X						0		Sample SI-7-B3-D collected at 11.6-12.0

NOTES: **E.O.B. at 12.0 feet**

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B4	COORDINATES:		DATE:	10/07/03
ELEVATION / DATUM:	soil surface (in crawlspace)	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:56
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-4.0 ft. FILL reddish-brown silty f. SAND, some m. sand, tr. gravel, tr. shells (tip of sampler wet)		0		approximately 8' from top of slab to soil
2			0.6				0		poor recoverey
3	X						0		Sample SI-7-B4-A collected at 2.6-3.0 ft.
4							0		
5					4.0-6.0 ft. FILL dk gray f-m-c SAND, little shells, tr. gravel, saturated		0		
6	X		2.0				0		Sample SI-7-B4-B collected at 5.6-6.0 ft.
7					6.0-8.0 ft. FILL dk gray silty CLAY, tr. f. sand, tr. shels, tr. wood, saturated.		0		
8							0		
9	X				8.0-12.0 ft. FILL black organic muck with metals parts, staples, washers, wire, and rubber pieces, saturated.		0		Sample SI-7-B4-B collected at 8.6-9.0 ft.
10			1.0				0		poor recoverey
11							0		
12	X						0		Sample SI-7-B4-B collected at 11.6-12.0

NOTES: **E.O.B. at 12.0 feet**

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B5	COORDINATES:		DATE:	10/07/03
ELEVATION / DATUM:	soil surface (in crawlspace)	GWL: Depth:	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:45
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-4.0 ft. FILL m. brown f-m SAND, little shells, tr. gravel, tr. brick fragments, moist		0		approximately 8' from top of slab to soil
2			2.6				0		poor recoverey
3	X						0		Sample SI-7-B5-A collected at 2.6-3.0 ft.
4							0		
5					4.0-6.0 ft. FILL (same as above)		0		
6	X		3.0				0		Sample SI-7-B5-B collected at 5.6-6.0 ft.
7					6.0-8.0 ft. lt to dk. gray f-m SAND, grades into silty SAND, little shells, saturated.		0		
8							0		
9	X				8.0-12.0 ft. FILL dk. gray silty CLAY, some glass, metals fragments, and shells, saturated		0		Sample SI-7-B5-B collected at 8.6-9.0 ft.
10			1.0				0		
11							0		
12	X						0		Sample SI-7-B5-B collected at 11.6-12.0

NOTES: E.O.B. at 12.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER: 276630000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B5	COORDINATES:		DATE: 10/08/03
ELEVATION: 13.59	GWL: Depth:	Date/Time:	DATE STARTED: 10/08/03
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 10/08/03
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
1					Dark Brown cmf SAND, little cmf Gravel, trace Silt & pieces of Rock Wood (1.5 - 1.7')	F			0.0 ppm
2					Brown cmf SAND, little Silt Clay & f Gravel	F			
			63						
3					Black cmf SAND & mf Gravel trace Silt				
4					Black & Dark Brown cmf SAND, little Silt & mf Gravel & pieces of glass, concrete wood	F			1 GW. 5.0
5					Dark Gray cmf SAND, little mf Gravel, trace Silt & clay & pieces of Rock				
6									
			25						
7					Black cmf SAND and GRAVEL, little Silt & pieces of Rock, glass etc.	F			1.0 ppm Oily
8									
	A				Wood (9.0 - 9.5')				
9									
					Black cmf SAND, little Silt, trace clay & pieces of Rock, wood, glass	F			
10			29						0.0 ppm
11						P			
12									

NOTES: End of the Boring at 12.0' (Refusal)

SOIL BORING LOG

amec

PROJECT NUMBER: 276990000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B6	COORDINATES:	DATE: 10/07/03	
ELEVATION: 13.48	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (PPM)
					Dark Brown & Pale green cmf SAND, little Silt, trace clay & pieces of shell	F			0 PPM
1									
					Black mf SAND & shell				
2			63		cmf SAND				0 PPM
	A-1 A-2								
3					Pale green cmf SAND, little Silt, trace clay	F			0 PPM
4									Grd 4.0'
5					Black cmf SAND, little cmf Gravel, trace Silt	F			
	B								
6			13						
7									
8					Black cmf SAND & piece of Gravel.	F			2 PPM oily odor
	C								
9					Yellow cmf SAND and Gravel & concrete (9.0 - 9.2')	F			
10			50		& pieces of glass				
					White pieces of shell				
11									
					Gray mft SAND, little Silt & pieces of shell	F			
12	D								

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B6	COORDINATES:	DATE: 10/07/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (PPM)
13	E				Dark Gray m/ SAND, little Silt, trace clay w/ pieces of shell	F/SP			0 PPM
					w/ pieces of wood				
14			83		Dark Gray cmf SAND, little Silt, trace clay, trace mf Gravel w/ pieces of white shell	SP			0 PPM
15	F				Gray cmf SAND, little Silt w/ pieces of white shell				0 PPM
16									
17	G				Gray cmf SAND, little Silt, trace clay w/ pieces of shell	SP			0 PPM
			87						
18									
19	H								
20					End of the Boring at 20.0 feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B6	COORDINATES:	DATE: 10/07/03	
ELEVATION: 13.48	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Dark Brown & Pale green cmf SAND, little Silt, trace clay w/ pieces of shell	F			0 PPM
2			63		Black mf SAND w/ shell cmf SAND				0 PPM
3	A-1 A-2				Pale green cmf SAND, little Silt, trace clay	F			0 PPM
4									GWL 4.0'
5					Black cmf SAND, little cmf Gravel, trace Silt	F			
6	B		13						
7									
8	C				Black cmf SAND w/ piece of Gravel.	F			2 PPM oily odor
9					Yellow cmf SAND and Gravel w/ concrete (9.0 - 9.2')	F			
10			50		w/ pieces of glass White pieces of shell				
11					Gray mf SAND, little Silt-				
12	D				w/ piece of shell	F			

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B6	COORDINATES:	DATE: 10/07/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
13					Dark Gray mf SAND, little Silt, trace clay by Pieces of shell	F/SP			0 PPM
14			83		by pieces of wood Dark Gray cmf SAND, little Silt, trace clay, trace mf Gravel by pieces of white shell	SP			0 PPM
15									
16					Gray cmf SAND, little Silt by pieces of white shell				0 PPM
					End of Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B7	COORDINATES:	DATE: 10/07/03	
ELEVATION: 13.54	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
0					Red & Brown cmf SAND, little Silt & clay w gravel, Pieces of Rock Brick etc	F			0.0 PPM
1									
2			42		Red pieces of Brick, glass				
3	A-1 A-2				Gray cmf SAND, trace clay, gravel w pieces of Rock	F			0 PPM
4									
5					Reddish Brown cmf SAND, trace clay & f gravel w pieces of white Stock, Rock	F			0 PPM
6	B		25						
7									Faint odor
8	C				Black cmf SAND, little mf Gravel, trace Silt & Brick Wood Rock ela w Brick.				20 PPM Oily
9	D								
					End of the Boring at 9.0' (Refusal)				
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B8	COORDINATES:	DATE: 10/07/03	
ELEVATION: 13.54	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (PPM))
1					Dark Brown cmf SAND, little Silt, little cmf Gravel trace Silt wf Pieces of Rock Brick etc				
2					Brick, glass, concrete				
			56		wf cmf Gravel, trace Silt				
3	A				Pieces of glass				
					Brown cmf SAND, little Silt trace mf Gravel wf Brick glass etc				
4									Gw-4.0
5					Black cmf SAND, little Silt wf Pieces of rock, Brick, glass etc				
6	B		50		Black cmf SAND, little Silt, trace clay + Gravel wf Pieces of rock, Brick glass				2.0 PPM
7					wf Brick, glass				
8									
9	C				Black cmf SAND, little cf Gravel, trace Silt wf Pieces of Rock (oily				Oily 185 PPM
10			17						
11									
12	D				Dark Gray mf SAND, little Silt, trace clay				1 PPM

NOTES: End of the Boring at 12.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276890000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B9	COORDINATES:	DATE: 10/06/03	
ELEVATION: 13.54	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (ppm))
0					Dark Gray cmf SAND, little cmf Gravel w/ piece of Rock slab (concrete) @ 0.3 - 0.4)	F			0.0 ppm
1									
2			38		Brownish Red cmf SAND, little Silt w/ piece of Brick cinder etc	F			0 ppm
3	A				Black & Gray cmf SAND, trace mf Gravel w/ white shell	F			0 ppm
4					Brown cmf SAND, little cmf Gravel, trace Silt	F			0 ppm
5									@ 4.0
6	B		13						
7					Brown cmf SAND, little Silt & mf Gravel w/ pc of Rock	F			0.0 ppm
8	C				Black cmf SAND, little Silt w/ piece of Gravel, shell wood etc	F			
9									
10			44		Black cmf SAND, trace Silt & clay w/ piece of Gravel Shell etc w/ wire	F			1.0 ppm
11					Black cmf SAND, little Silt w/ piece of Rock, Gravel Brick etc	F			1.0 ppm
12	D								

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B9	COORDINATES:	DATE: 10/06/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/06/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/06/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Gray mf SAND, little Silt, trace clay & pieces of shell	F			PID (ppm) 0.0
14					Wood (14.2–14.5)	F			
15					Gray mf SAND, little mf Gravel, trace silt & pieces of shell	F/SP			0.0
16					End of Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B10	COORDINATES:	DATE: 10/07/03	
ELEVATION / DATUM: soil surface (in crawlspace)	GWL: Depth: Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-2.5 ft. FILL dk. brown f. SAND. some gravel & concrete, tr. oyster shells, moist		0		approximately 8' from top of slab to soil
2			2.1				0		
3	X				2.5-3.2 ft. FILL reddish-brown f. SAND, tr. gravel, moist		0		Sample SI-7-B10-A collected at 2.8-3.2 ft.
4					3.2-3.6 ft. FILL brown concrete and f. SAND, moist 3.6-4.0 ft. FILL dk. red.-brn. gravelly f. SAND, tr. glass,moist		0		
5					4.0-8.0 ft. FILL dk. gray gravel & m. SAND, little glass & coal ash, saturated.		0		
6	X		0.6				0		Sample SI-7-B10-B collected at 5.6-6.0 ft.
7							0		poor recovery
8									
9	X				8.0-12.0 ft. FILL black f-m-c SAND, w./ glass, brick fragments, gravel, shells, saturated.				Sample SI-7-B10-C collected at 8.6-9.0 ft.
10			1.0				1.5-15		oily sheen
11									
12	X						7.5		Sample SI-7-B10-D collected at 11.6-12.0

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B10	COORDINATES:	DATE: 10/07/03	
ELEVATION / DATUM: soil surface (in crawlspace)	GWL: Depth: Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	☒				12.0-16.0 ft. FILL dk. gray m-c silty SAND, grading into gravelly SAND, some shells, gleyed, saturated		0		Sample SI-7-B10-E collected at 12.6-13.0
14							0		probably hydraulic fill
15							0		
16							0		
					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B11	COORDINATES:	DATE: 10/07/03	
ELEVATION / DATUM: top of soil 8 ft below slab	GWL: Depth: 3.9 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	☒		2.0	###	0-4.0 ft. FILL dk. brown f. SAND and concrete fragments, some gravle, silty horizons, moist.		0		Sample SI-7-B11-C collected at 0-0.4 ft.
2							0		
3	☒						0		Sample SI-7-B11-A collected at 2.6-3.0 ft.
4							0		
5			0.6 over 2 ft		4.0-6.0 ft. FILL gravellly f-m-c SAND w./ glass, metal fragments, saturated.		0		
6	☒						0		Sample SI-7-B11-B collected at 5.6-6.0 ft.
					E.O.B. at 6.0 feet (refusal)				
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B12	COORDINATES:	DATE: 10/07/03	
ELEVATION: 13.56	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Brown cmf SAND, little Silt, trace clay & pieces of wood, rock, shell etc.	F			0.0 ppm
2					cmf Gravel, glass, wood				0.0 ppm
3	A		38		Brown cmf SAND, little Silt, trace f Gravel	F			
4					Black & Brown cmf SAND, trace silt, trace f Gravel				0.0 ppm
5					Brown & Black cmf SAND, little Silt, trace mf Gravel & piece of Rock	F			0.3 ppm
6	B		35		Black cmf SAND, little mf Gravel & piece of Rock wood, glass etc	F			
7					↓				0.0 ppm
8	C				Grey cmf SAND, little Silt-trace clay & piece of Rock wood etc				
9	D		13		glass, plastic, Brick Black cmf SAND, little Silt trace f Gravel & pcs of Rock	F			0.3 ppm
10					End of the Boring at 9.5' (Refusal)				
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276990000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B13	COORDINATES:	DATE: 10/07/03	
ELEVATION: 13.71	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Dark Brown cmf SAND, little Silt, trace clay & Piece of Rock, wood, Shell etc	F			0.0 PPM
2	A		50		Black mf Gravel, cement Brick				
3					Dark cmf SAND, little Silt trace mf Gravel, cinderete	F			GWL- 4.0' 0.0 PPM
4					Brown cmf SAND, little Silt, trace clay				
5									
6	B		38		Black cmf SAND, little Silt & mf Gravel	F			0.0 PPM
7					Pieces of Brick, glass	F			
8					Black cmf SAND, little Silt, trace clay & Brick Plastic etc	F			0.0 PPM
9	C				Whitish Gray CLAY & SILT & Piece of Rock, wood etc	F			0.0 PPM
10			48		Black cmf SAND, little Silt, trace clay & Piece of wood, Rock etc	F			0.0 PPM
11									
12	D				Black cmf SAND, little Silt trace clay & Rock etc				2.5 PPM

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SB-17 - B13	COORDINATES:	DATE: 10/07/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Gray SILT, little mf Sand, trace clay w/ Pieces of wood, Rock etc	F			PID ppm 0.0 ppm
14									
15					Dark Gray cmf SAND, little Silt, trace clay w/ Pieces of white shell	SP			0.0 ppm
16					End of Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B14	COORDINATES:	DATE:	10/30/03
ELEVATION / DATUM: top of soil 8 ft below slab	GWL: Depth: 2.0 ft Date/Time:	TIME STARTED:	7:20
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	8:10
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-0.5 ft. lt. brn. gravelly m-c SAND, some f. sand, poorly sorted, moist		0		
					0.5-2.1 ft. FILL m. brown f. SAND, tr. c. sand, moist (wet at 2 ft)		0		
2			3.4						
					2.1-4.0 ft. FILL lt. gray to m. brown f. SAND, tr. clay, tr. c. sand, compact, saturated.		0		Sample SI-7-B14-A collected at 2.6-3.0 ft.
3									
					4.0-4.8 ft. FILL (same as above) saturated		0		
4					4.8-5.0 ft. dk gray CLAY, tr. plant remains, stiff, moist.		0		recent marsh deposit?
5					5.0-6.0 ft. FILL dk. gray f. SAND, tr. m. sand, saturated.		0		
6			4.0						Sample SI-7-B14-B collected at 5.6-6.0 ft.
					6.0-8.0 ft. FILL dk gray f. SAND, some oyster shells, saturated (hydraulic fill)		0		
7							0		
8					8.0-12.0 ft. dk gray f-m SAND, some m. sand, saturated.		0		
9									Sample SI-7-B14-C collected at 8.6-9.0 ft.
							0		
10			2.6						
							0		
11									
							0		Sample SI-7-B14-D collected 11.6-12.0 ft.
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B14	COORDINATES:		DATE:	10/30/03
ELEVATION / DATUM:	top of soil 8 ft below slab	GWL: Depth: 2.0 ft	Date/Time:	TIME STARTED:	7:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:10
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.5		12.0-16.0 ft (same as above)		0 0 0 0		
16					**E.O.B. at 16.0 feet**				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B15	COORDINATES:	DATE: 10/30/03	
ELEVATION / DATUM: top of soil 7.5 ft below slab	GWL: Depth: 5 ft Date/Time:	TIME STARTED: 8:20	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-4.0 ft. reddish-brown f. SAND, tr. gravel, uniform, compact, moist.		0		
2			1.5				0		
3	☒						0		Sample SI-7-B15-A collected at 2.6-3.0 ft.
4							0		
5					4.0-7.0 ft. m. brown f. SAND, tr. clay, tr. shells, moist, (saturated at 5.0 ft.), (hydraulic fill)		0		recent marsh deposit?
6	☒		2.8				0		Sample SI-7-B15-B collected at 5.6-6.0 ft.
7					7.0-8.0 ft. dk. gray (gleyed) f-m. SAND, tr. shells, poorly sorted, saturated.		0		
8					8.0-12.0 ft. (same as above)		0		
9	☒						0		Sample SI-7-B15-C collected at 8.6-9.0 ft.
10			1.8				0		
11							0		Sample SI-7-B15-D collected 11.6-12.0 ft.
12	☒								

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B15	COORDINATES:	DATE:	10/30/03
ELEVATION / DATUM: top of soil 7.5 ft below slab	GWL: Depth: 5 ft Date/Time:	TIME STARTED:	8:20
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			~2		12.0-16.0 ft. dk. gray f. SAND w./ up to 40% oyster shells, saturated		0 0 0 0		possibly an undisturbed oyster bed.
16					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-16	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					O				
3					P				
4					E				
5					N				
6									
7									
0 A 8					Dark Brown & Gray cmf SAND, little Silt, little cmf Gravel by Pieces of Brick wood, glass	F			0.0 ppm
1 9									
2 B 10			58		Dark Gray cmf SAND, little Silt, trace f Gravel by Pieces of Rock, Brick wood, cinder	F			0.0 ppm
3 11									
4 C 12									

NOTES: A = 0 - 0.5'
B = 2.1 - 2.5
C = 3.5 - 4.0

JAE 2/17/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-16	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Gray cmf SAND, little f Gravel, trace Silt, w/ Pieces of shell, wood	F			0.0 ppm
14			63		Dark Gray cmf SAND, little cmf Gravel, trace Silt w/ Pieces of white shell	SP			
15					w/ Piece of wood				
16									
17									
18			67						
19					Dark Gray cmf SAND, little cmf Gravel, trace Silt w/ Pieces of shell	SP			0.0 ppm
20									
21					Dark Gray cmf SAND, little f Gravel, trace Silt w/ Piece of white shell	SP			0.0 ppm
22			63						
23									
24					Dark Gray SILT, some mf Sand, trace clay w/ Piece of white shell	ML/SP			0.0 ppm

NOTES: D = 4.5-5.5 E = 6.5-7.5 F = 8.5-9.5 G = 10.5-11.5 H = 12.5-13.5 JAR 2/17/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-17	**COORDINATES:**	**DATE:** 04/27/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/27/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
0					Concrete - slab				
1									
2					O				
3					P				
4					E				
5					N				
6									
7									
8					Dark Brown cmf SAND, little mf Gravel, trace Silt & pieces of shell, Rock	F			0.0 ppm
9									
10			60						
11									
12									

A
B

NOTES:
4

A = 0-1
B = 2-3
C = 4-5

JAR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-17	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF	

	DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
C	13 5					Dark Gray cmf SAND, little Silt, little f Gravel, trace clay. 4 Piece of shell, Rock	F			
	14 6			67		4 mf Gravel	F			
D	15 7						SP			
	16 8					Dark Gray cmf SAND, Some Silt, trace mf Gravel	SP			
E	17 9									
	18 10			50						
F	19 11					SILT / CLAY	ML/CL			
	20 12					Dark Gray SILT, trace clay, little mf Sand 4 Piece of White Shell, Wood (decomposed)	ML/CL			
G	21 13									
	22 14			75						
H	23 15					Dark Gray cmf SAND, little Silt	SP			
	24									

NOTES: TB

End of the Boring at 24.0'

D= 6-7 F= 10-11 H= 14-15

E= 8-9 G= 12-13

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-18	**COORDINATES:**	**DATE:** 04/27/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/27/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					TOPSOIL				
3									
4									
5									
6									
7									
8					Dark Gray & Brown cmf SAND, little Silt, little mf Gravel & Piece of Rock	F			0.0 PPM
9									
10	A		50		Dark Gray cmf SAND, little Silt, trace f Gravel & Piece of white shell	SP			0.0 PPM
11									
12	B								

NOTES: A = 2 - 3
B = 4.0 - 4.5 JA 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-13-18	**COORDINATES:**	**DATE:** 04/27/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/27/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

	DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
C	5					Gray cmf SAND, little Silt, trace mf Gravel by Pieces of shell	F			0 PPM
	13									
	6									Gw L 13 F
	14			67						
D	7					Dark Gray cmf SAND, little mf Gravel, trace Silt by Pieces of white shell	F			0.2 PPM
	15									
	8									
	16									
E	9									
	17									
	10									
	18			75		Dark Gray cmf SAND, little Silt, trace clay by Pieces of white shell	F			0.0 PPM
F	11									
	19									
	12									
	20					Dark Gray cmf SAND and SILT, trace f Gravel by Pieces of white shell	SP/ ML			0.0 PPM
G	13									
	21									
	14			67						
	22									
H	15					Dark Gray cmf SAND, little Silt, trace clay by Pieces of white shell	SP			
	23									
	16									
	24									

NOTES: End of the Boring at 24.0 feet.

C= 4.5-5.5 D= 6.5-7.5 E= 8.5-9.5 F= 10.5-11.5 G= 12.5-13.5

H= 14.5-15.5 JK 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-19	**COORDINATES:**	**DATE:** 04/27/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/27/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					↑ O				
3					P				
4					E				
5					N				
6					↓				
7									
A 8					Dark Grey cmf SAND, little Silt, little mf Gravel, trace Silt & piece of shell, Rock, cinder &	F			0.0 PPM
9									
10			83		Black cmf SAND, little Silt, little mf Gravel & Pieces of Rock				
B 11					↓	F			CCL 11.5'
C 12									

NOTES: A= 0-1
B= 2-3
C= 4-5

JR 2-18-05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-13-19	**COORDINATES:**	**DATE:** 04/27/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/27/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
5					Dark Gray cmf SAND, little Silt, trace clay & Pieces of whit shell	F			
13									
6									0.0 PPM
D 14			67		Dark Gray SILT & CLAY				
7					Piece of Wood				
15					Dark Gray cmf SAND, little Silt, trace clay	F			
8									
E 16					Orange Brown cmf SAND, little Silt, little f Gravel trace clay	SP			
9									
17									
10									0.0 PPM
F 18			75						
11									
19									
12									
20									
13					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES: D=6-7 E=8-9 F=10-11 JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-19	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Concrete slab				
1									
2					O				
3					P				
4					E				
5					N				
6									
7									
4 8					Dark Grey cmf SAND, little Silt, little mf Gravel, trace Silt & piece of shell, Rock, cinder etc	F			0.0 PPM
9									
B 10			83		Black cmf SAND, little Silt, little mf Gravel & Piece of Rock				
11						F			0.0 PPM
c 12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-19	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (IN)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Grey cmf SAND, little Silt, trace clay & Piece of Wall shell	F			0.0 PPM
14			67		Dark Gray SILT & CLAY				
15					Piece of Wood	F			
16					Dark Gray cmf SAND, little Silt, trace clay				
17					Orange Brown cmf SAND, little Silt, little F Gravel trace clay	SP			0.0 PPM
18			75						
19									
20									
21			83						
22					End of Boring at 22.0' Refusal due to bedrock (bedrock)				
23									
24									

D E F G H

NOTES: D=6-7 E=8-9 F=10-11 G=12-13 H=14-14.5

JAR 2/24/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B.20	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab.				
2					↑ O				
3					P				
4					E				
5					N				
6					↓				
7									
8									
0									
A					Light Brown & Gray cmf SAND, little mf Gravel, trace Silt & pieces of Rock wood, glass	F			0.0 PPM
8 1									
10 2			63		Gray and Brown cmf SAND, little Silt, trace clay, trace f Gravel & pieces of decomposed wood	F			0.0 PPM
B									
11 3									
12					↓				

NOTES: 4

A = 0-1
B = 2-3
C = 4-5

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7. B-20	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

	DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
C	13 5					Gray & Brown cmf SAND, little Silt, trace clay, trace f Gravel & pieces of Rock wood	F			0.0 ppm
D	14 6			63		Black and Dark Gray cmf SAND, trace Silt, trace f Gravel & pieces of white shell	F			0.0 ppm
E	15 7 16 8					Dark Gray cmf SAND, little Silt, trace clay, trace f Gravel & pieces of white shell	SP			0.0 ppm
F	17 9 18 10			58						
G	19 11 20 12					Black and Gray cmf SAND, little mf Gravel, trace Silt & pieces of white shell	SP			0.0 ppm
H	21 13 22 14			58						
	23 15 24 16					Orange & Brown cmf SAND, little mf Gravel, trace silt trace clay	SP			0.0 ppm

NOTES:

End of the Boring at 24.a feet (from slab).

D = 6-7 F = 10-11
E = 8-9 G = 12-13 H = 14-15

MR 2/23/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B21	COORDINATES:	DATE:	04/28/04
ELEVATION / DATUM: top of soil 7.5 ft below slab	GWL: Depth: ~4 ft Date/Time:	TIME STARTED:	7:55
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:02
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	X				0-1.6 ft. FILL lt. gray f. SAND, tr. m. sand, tr. wood splinters, tr. c. sand, moist (hydraulic fill)		0 0		Sample SI-7-B21-A 0-1.0 ft (8:11)
2	X		2.9 over 4.5 ft.		1.6-3.4 ft. FILL concrete fragments, rusty-brown clayey silt/sand material (coal ash?), moist		0		Sample SI-7-B21-B 2.0-3.0 ft (8:15)
3									
4	X				3.4-4.5 ft. FILL rusty brown to black silty f. sand material (looks like weathered coal ash or fly ash), moist		0 0		over-drove to 4.5 feet Sample SI-7-B21-C
5					4.5-6.5 ft. FILL dk gray rock fragments, & crushed stone, little f. sand, tr. wire, tr. glass, saturated.		0		4.0-5.0 ft (8:17)
6	X		1.9				0		Sample SI-7-B21-D 6.0-7.0 ft (8:28)
7					6.5-8.5 ft. FILL lt gray crushed stone, gravel, some f-m-c sand, saturated		0		
8	X						0		Sample SI-7-B21-E 8.0-9.0 ft (8:33)
9					8.5-9.0 ft. FILL lt gray f. SAND, little gravel, saturated. 9.0-12.5 ft. FILL dk gray to black f-m-c SAND concrete fragments, possible coal ash, saturated.		0		PID reading but no sheen or odor
10	X		0.8				2.5		Sample SI-7-B21-F 10.0-11.0 ft (8:42)
11							3.3		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B21	COORDINATES:	DATE:	04/28/04
ELEVATION / DATUM: top of soil 7.5 ft below slab	GWL: Depth: ~4 ft Date/Time:	TIME STARTED:	7:55
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:02
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	X			### ###	(see above)		0		Sample SI-7-B21-G 12.0-13.0 ft (8:50)
14	X				12.5-15.0 ft. lt gray sandy SILT, stiff, little shells (1-2 cm wide), gleyed, saturated (possibly native soil)		0		Sample SI-7-B21-H 14.0-15.0 ft (8:59)
15							0		
16					15.0-16.5 ft. lt. brown f. SAND, tr. m. sand, tr. gravel, saturated.		0		
17					16.5-20.5 ft. lt brown f. SAND, tr. m. sand, saturated.		0		
18							0		
19							0		
20							0		
21					E.O.B. at 20.5 feet				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-B-7-B-22	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					O				
3					P				
4					E				
5					N				
6									
7									
0/8									
A 1/9					Light Brown & Gray cmf SAND, little Silt, trace f Gravel & pieces of wood. Rock & Pieces of wood (1")	F			
2/10			58						
B 3/11					Black cmf SAND, some mf Gravel, trace Silt & pieces of Rock	F			Faint odor
4/12									

NOTES: A = 0-1
B = 2-3

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-B-7-B-22	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

	DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
C	5 13			25		Gray mf+ SAND, little Silt, trace clay	F			0.0 ppm
	6 14									
D	7 15					No Recovery.	F?			
	8 16									
E	9 17									
	10 18			NR		No Recovery	F?			
F	11 19									
	12 20									
G	13 21					Dark Gray mf+ SAND some Silt, trace mf Gravel by Pieces of wood, shell	F/SP			0.0 ppm
	14 22			54						
H	15 23									
	24					Orange and Brown mf+ SAND, little Silt, trace mf Gravel.	SP			0.0 ppm

NOTES: End of the Boring at 24.0'

C = 4-5 D = 6-7 E = 8-9 F = 10-11 G = 12-13

H = 14-15

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B23	COORDINATES:		DATE:	04/28/04
ELEVATION / DATUM:	top of soil 7.5 ft below slab	GWL: Depth:	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:55
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	X		3.0 over 4.5 ft		0-4.5 ft. FILL lt brown to gray-brown f. SAND, some gravel, tr. m. sand, tr. oyster shells, tr. rock fragments, moist,		0		Sample SI-7-B23-A 0-1.0 ft (10:05)
							0		
2	X								Sample SI-7-B23-B 2.0-3.0 ft (10:10)
							0		
3									
							0		
4	X				over-drove sampler to 4.5 ft.				Sample SI-7-B23-C 4.0-5.0 ft (10:12)
					4.5-7.3 ft. FILL (same as above) saturated at 4.5 feet		0		
5									
6	X		1.6				0		Sample SI-7-B23-D 6.0-7.0 ft (10:23)
7							0		
8	X			###	8.5-12.5 ft. FILL black to dk. gray, concrete fragments crushed stone, silt (ash?), nails, shells, saturated.		0		Sample SI-7-B23-E 8.0-9.0 ft (10:33)
9							0		
10	X		1.3				0		Sample SI-7-B23-F 10.0-11.0 ft (10:38)
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B23	COORDINATES:		DATE:	04/28/04
ELEVATION / DATUM:	top of soil 7.5 ft below slab	GWL: Depth:	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:55
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			0.8		12.5-14.5 ft. FILL dk gray concrete fragments & back coal ash, stiff, saturated.		0 0		Sample SI-7-B23-G 12.0-13.0 ft (10:43) Sample SI-7-B23-H 14.0-15.0 ft (10:46)
15					14.5-16.5 ft. dk. gray sandy SILT to sand CLAY, some shells, tr. gravel, saturated (could be either fill or native material).		0 0		Sample SI-7-B23-I 16.0-17.0 ft (10:49)
17			4.0		16.5-20.5 ft. olive-brown f. SAND, loose uniform, well sorted, saturated (native?)		0 0 0		
20							0		
					E.O.B. at 20.5 feet				
21							0		
22							0		
23							0		
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-24	COORDINATES:	DATE: 04/28/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/28/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					O				
3					P				
4					E				
5					N				
6									
7									
8 0	A				Gray dmf SAND, little Silt, little mf Gravel w/ Pieces of Rock	F			
1 9									
2 10	B		83		Brown CLAY / SILT w/ Pieces of glass				
3 11					Grey dmf SAND, little silt, trace f Gravel, trace clay w/ Pieces of shell	F			0.0 PPM
4 12									

NOTES:
A = 0-1
B = 2-3

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-24	COORDINATES:	DATE: 04/28/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/28/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

	DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
C	5 13					Brownish Gray cmf SAND, little mf Gravel, trace Silt	F			
	6 14			83		Dark Gray cmf SAND, little silt, trace mf Gravel				
D	7 15					w Pieces of Rock, white shell	F			0.0 ppm
	8 16					w Pieces of Rubber				
E	9 17					Black cmf SAND, little mf Gravel, trace Silt w Pieces of concrete, wood				0.0 ppm
	10 18			87		w Ash, cinder	F			
F	11 19					w Pieces of white shell				
	12 20					w Pieces of Brick				
G	13 21					Gray cmf SAND, little f Gravel, trace clay w Pieces of Rock, decomposed wood.	F/SP			0.0 ppm
	14 22			63		Gray SILT, little silty clay w Pieces of shell				
H	15 23					Dark Gray cmf SAND & GRAVEL, trace silt, trace clay w Pieces of white shell	SP			0.0 ppm
	16 24									

NOTES: C = 4-5, D = 6-7, E = 8-9, F = 10-11, G = 12-13, H = 14-15

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-24	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
I									
17					Light Brown & Red CLAY, little Silt, trace of Sand	CL			0.0 PPM
25									
18					(alternate bands of				
26			88		Silt and clay)				
19					↓				
27									
20					↓ by Piece of Rock.				
28									
					End of the Boring at 28.0' (from slab)				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES: I = 16-17 JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B25	COORDINATES:		DATE:	04/28/04
ELEVATION / DATUM:	top of soil 8 ft below slab	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	12:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	X		2.4		0-4.0 ft. FILL dk brown f-m SAND, grades into silty sand, some gravel, rusty in ,lower 1.5 ft, stiff, moist.		0		Sample SI-7-B25-A 0-1.0 ft (12:40)
2							0		
3	X						0		Sample SI-7-B25-B 2.0-3.0 ft (12:42)
4				▽			0		
5	X		3.2	###	4.0-5.0 ft. FILL (same as above) saturated		0		Sample SI-7-B25-C 4.0-5.0 ft (12:50)
6				###	5.0-8.0 ft. FILL dk gray f-m-c SAND, some gravel, tr. shells, tr. brick fragments, (horizons of coal and coal ash from 6.6-8 ft), saturated		0		
7	X			###			0		Sample SI-7-B25-D 6.0-7.0 ft (12:52)
8				###			0		
9			0.1	###	8.0-12.0 ft. FILL (same as above) poor recovery				almost no recovery (sample collected from drive shoe).
10	X			###			0		Sample SI-7-B25-E 10.0-11.0 ft (13:00)
11				###					
12				###					

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B25	COORDINATES:		DATE:	04/28/04
ELEVATION / DATUM:	top of soil 8 ft below slab	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	12:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					no recovery				no recovery
14			0.0						
15									
16				###	16.0-16.1 ft. FILL black organic muck & wood fragments, saturated.		0		
16	X								Sample SI-7-B25-H
17					16.1-17.0 ft. FILL dk. gray c-m-f SAND, little gravel, saturated.		0		16.0-17.0 ft (13:04)
18					17.0-19.0 ft. reddish-brown clayey c-m-f SAND, little silt, tr, gravel, pieces of weathered schist, saturated. (looks like glacial till but may be disturbed)		0		
18	X								Sample SI-7-B25-H
19							0		18.0-19.0 ft (13:10)
19					19.0-19.5 ft. m. brown f. sandy SILT, tr. c. sand, laminated, saturated.		0		Sample SI-7-B25-H
20	X				19.5-20.0 ft. reddish-brn. fmc clayey SAND, saturated (till?)				19.6-20.0 ft (13:20)
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B26	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					↑ O				
3					P				
4					E				
5					N				
6									
7					↓				
A 8					Light Brown & Black cmf SAND, little Silt, trace mf Gravel & pieces of Rock Bricks.	F			0.0 PPM
9									
10			25						
B 11					Dark Gray cmf SAND, trace mf Gravel, trace Silt, trace clay & piece of Rock	F			0.0 PPM
12									
C									

NOTES: A = 0-1
B = 2-3
C = 4-5

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-13-26	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
E -5 13					Pieces of Rock. (Poor Recovery)	F			
-6 14			5 (NFR)						
D -7 15					Dark Gray cmf SAND, some Gravel	F			
-8 16					w/ Pieces of wood metal.				
E -9 17									
-10 18			25		Dark Gray cmf SAND, little silt, trace mf Gravel w/ Pieces of Rock, shell	F			0.5 ppm
F -11 19					w/ Pieces of wood				
-12 20									
13 21					No Recovery				
14 22					Refusal at 21.5 (Rock Slab)				
23									
24									

NOTES: D = 6.5 - 7.5 F = 10.5 - 11.5
E = 8.5 - 9.5

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B27	COORDINATES:		DATE:	04/28/04
ELEVATION / DATUM:	top of soil 8 ft below slab	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	13:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	X		2.0		0-2.0 ft. FILL m. brown c-m-f SAND, little gravel, moist (hydraulic fill)		0		Sample SI-7-B27-A 0-1.0 ft (13:55)
2									
3	X				2.0-4.0 ft. FILL black to rusty brown coal ash, glass, metal (springs, sheet metal, bolts), moist				Sample SI-7-B27-B 2.0-3.0 ft (14:00)
4									
5	X		1.3		4.0-8.0 ft. FILL dk. gray to black coal ash, concrate fragments, refractory brisk, and gravel in matrix of silty organic muck, saturated. (slight oily sheen and PHC odor)		2.2		Sample SI-7-B27-C 4.0-5.0 ft (14:10) poor recovery
6							3.3		Sample SI-7-B27-D 6.0-7.0 ft (14:15)
7							0		
8	X		0.8		8.0-12.0 ft. FILL rubber, screws, washers, in matrix of black silty muck, saturated. (slight oily sheen)		0		Sample SI-7-B27-E 8.0-9.0 ft (14:20)
9							0		poor recovery
10	X						0		Sample SI-7-B27-F 10.0-11.0 ft (14:30)
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-7-B27	COORDINATES:		DATE:	04/28/04
ELEVATION / DATUM:	top of soil 8 ft below slab	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	13:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	X			###	12.0-16.0 ft. FILL black & gray coal ash, metal, glass, uniform texture, saturated (incinerator ash?)		0		Sample SI-7-B27-G 12.0-13.0 ft (14:40)
14	X			###			0		
15	X			###			0		Sample SI-7-B27-H 14.0-15.0 ft (14:50)
16				###			0		
17					16.0-18.0 ft. black f. sandy SILT, some clay, tr. shells, anaerobic odor, saturated.		0		
18	X				18.0-20.0 ft. dk. gray to black silty CLAY, plastic, saturated.		0		Sample SI-7-B27-I 18.0-19.0 ft (14:55)
19	X								
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B29	COORDINATES:	DATE:	04/29/04
ELEVATION / DATUM: top of soil 8 ft below slab	GWL: Depth: 4 ft Date/Time:	TIME STARTED:	8:15
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:30
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	X		1.8	###	0-4.0 ft. FILL black to rusty brown weathered coal ash (coarse grained) w./ nails, gravel, wire, and greenish-blue coating on some grains (possible metal oxide), moist (wet at 4.0 ft)		0		Sample SI-7-B29-A 0-1.0 ft
2							0		
3	X						0		Sample SI-7-B29-B 2.0-3.0 ft
4							0		
5	X		0.8		4.0-8.0 ft. FILL (same as above) saturated.		0		Sample SI-7-B29-C 4.0-5.0 ft
6							0		
7	X						0		Sample SI-7-B29-D 6.0-7.0 ft
8							0		
9			0.0		no recovery				no sample sample probe hit strong resistance with no recovery (wooden barge??)
10									no sample
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-7-B29	COORDINATES:	DATE:	04/29/04
ELEVATION / DATUM: top of soil 8 ft below slab	GWL: Depth: 4 ft Date/Time:	TIME STARTED:	8:15
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:30
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	X				12.0-15.2 ft. dk. gray sandy CLAY, some silt, tr. shells, stiff, saturated. (upper 0.2 ft. is black with slight PID reading). possibly native soil.		0.3		Sample SI-7-B29-E 12.0-13.0 ft (09:00)
14	X		2.6				0		
15	X						0		Sample SI-7-B29-F 14.0-15.0 ft (09:05)
16					15.2-16.0 ft. dk. gray f-m-c- SAND, little gravel, tr. silt, saturated		0		
17	X				16.0-20.0 ft. (same as above) possibly native soil		0		Sample SI-7-B29-G 160-17.0 ft (09:20)
18			1.2				0		
19							0		
20							0		
21					E.O.B. at 20.0 feet				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-30	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete slab				
1					↑				
2					O				
3					P				
4					E				
5					N				
6					↓				
7									
0 8					Dark Gray cmf SAND, little f Gravel, trace Silt-				
A 1 9					w/ pieces of wood, Rock.	F			0.0 ppm
2 10			42		w/ pieces of wood.				
B 3 11					Dark Brown cmf SAND,				
4 12					little mf Gravel, trace Silt, trace clay w/ Piece of Rock, wood	F			0.0 ppm

NOTES:
A = 0-1
B = 2-3 JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B30	**COORDINATES:**	**DATE:** 04/28/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/28/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/28/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
C 5 13					Dark Brown & Gray cmf SAND, little Silt, trace clay w Pieces of Rock, wood				
6 14			67		Black SILT, some mf Sand, trace clay w Pieces of Rock, wood.				12 ppm odor
D 7 15					↓				
8 16					Dark Gray mf SAND, little Silt, trace clay w Pieces of Brick, wood, cinder				
E 9 17					↓				10 ppm
10 18			73						
F 11 19					w Pieces of wood.				
12 20									
G 13 21					Dark Gray SILT/CLAY, Some f Sand, little f Gravel w Pieces of Rock				0.0 ppm
14 22			96						
H 15 23					Dark Gray cmf SAND, Some mf Gravel, trace Silt				0.0 ppm
16 24									

NOTES: End of the Boring at 24' (from slab)

C = 4-5 D = 6-7 E = 8-9 F = 10-11 G = 12-13 H = 14-15

LR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-31	**COORDINATES:**	**DATE:** 04/29/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/29/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 3	

	DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
	0					Concrete slab				
	1					↑				
						O				0.1 ppm
	2									
	3					P				
	4					E				
	5					N				
	6									
	7					↓				
A	8					Light Gray cmf SAND, little Silt, trace f Gravel by pieces of leaf, wood shell	F			0.1 ppm
	1									
	9									
	2									
B	10			86		Brownish Gray cmf SAND, little Silt, trace f Gravel by pieces of wood, shell	F			0.0 ppm
	3									
	11									
	4									
C	12					Brown SILT, little f Sand Gray f SAND, little silt/clay	F			0.0 ppm

NOTES:

A = 0-1 C = 4-5

B = 2-3

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-31	COORDINATES:	DATE: 04/29/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/29/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
5					Dark Gray mf SAND, little Silt, trace mf Gravel, trace clay & piece of shell class)				
13									
4									
14			83			F			
D 7					Dark Gray cmf SAND, little mf Gravel, trace Silt & pieces of white shell				0.0 ppm
15									
8									
16									
E 9									
17									
10									
18			37		Dark Gray cmf SAND, trace Silt, trace f Gravel & Pieces of white shell	F			0.0 ppm
F 11									
19									
12					Dark Gray mf SAND, trace Silt, trace clay				
20									
G 13					Dark Gray cmf SAND, little Silt, trace clay & Pieces of shell	F			
21									
14									
22			83						
H 15									
23					Brownish Gray SILT/CLAY, little mf Sand	cl/mL			0.3 ppm
24									

NOTES: D = 6.5 - 7.5 F = 10.5 - 11.5 H = 14.5 - 15.5
E = 8.5 - 9.5 G = 12.5 - 13.5

HP 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-31	**COORDINATES:**	**DATE:** 04/29/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/29/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
16.5									
I					Dark Gray and Black CLAY, trace Silt	CL/ML			588 ppm
17.5									
25									
26			96						
27					Dark Gray & Brown CLAY/ SILT, trace f Sand	CL/ML			0.0 ppm
28									0.
					End of the Boring at 28.0' (from slab)				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES: I = 16.5 - 17.5 JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-32	**COORDINATES:**	**DATE:** 05/05/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/05/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 **OF** 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Concrete slab (6")				
1					↑ 0				
2									
3					P				
4					E				
5					N				
6					↓				
7									
0 8									
A 1 9					Brown and Pale green cmf SAND, trace Silt, little clay & F Gravel by Pieces of Rock, glass, concrete	F			0.1 PPM
2 10			42		& by Pieces of Concrete.				
B 3 11					Dark Gray cmf SAND, little Silt, trace F Gravel trace Silt & pieces of Rock wood	F			
4 12									

NOTES: A = 0-1
B = 2-3

JL 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-32	**COORDINATES:**	**DATE:** 05/05/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/05/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 3	

	DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
C	5/13					Black cmf SAND, little cmf Gravel, trace Silt & Pieces of Rock, metal.	F			0.1 ppm
	6/14			67		& Pieces of Rock				
D	7/15					& Pieces of metal.	F			
	8/16					& Pieces of Brick				
E	9/17					Brownish Black cmf SAND, little mf Gravel, trace Silt, trace clay & Pieces of cinder, ash	F			
	10/18			73						0.0 ppm
F	11/19									
	12/20					& Pieces of wood.				
G	13/21					Black SILT/CLAY, trace f Gravel and Sand & Pieces of wood.	F			
	14/22			75						
H	15/23					Dark Grey cmf SAND, little Silt, trace clay & Pieces of shell, wood. & Pieces of Rubber	F			0.0 ppm
	16/24									

NOTES: C = 4-5 D = 6-7 E = 8-9 F = 10-11 G = 12-13 H = 14-15

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B32	**COORDINATES:**	**DATE:** 05/05/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/05/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
17 25					Gray cmf SAND, some clay, little Silt & pieces of wood.	CL/SM			0.0 PPM
18 26			73		↓				
19 27					& pieces of decomposed wood				
20 28					& wood				
22 29					End of the Boring at 28.0' (Rock slab)				
23 30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-33	**COORDINATES:**	**DATE:** 05/11/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/11/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2									
3									
4									
5									
6									
7									
A 1 8					Pale Green cmf SAND, little Silt, trace f Gravel by Pieces of Brick, wood,	F			0.0 PPM
2 9			63		by Pieces of glass, Roots.				
B 3 10					Brown cmf SAND, little Silt, little cmf Gravel, trace clay by Piece of Rock, cinder wood.	F			
4 11					Brown cmf SAND, little Silt trace mf Gravel, trace Clay by Rock	F			0.0 PPM
C 5 12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-33	**COORDINATES:**	**DATE:** 05/11/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/11/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
6 13					w/ Pieces of Wood, Plastic				0.0 PPM
D 7 14			67		White & Gray mf SAND, little clay w Pieces of Wood. Rock				
8 15					Dark Gray c/mf SAND, little Silt				29 PPM
E 9 16					Brown CLAY				
10 17					Dark Gray mf SAND				13 PPM sheen
F 11 18			75		Brown CLAY				
12 19					Dark Gray mf SAND, little Silt, trace clay				5 PPM
G 13 20					Dark Gray c/mf SAND, little Silt, trace clay, trace mf Gravel				9 PPM
14 21									
15 22			52		Dark Gray c/mf SAND,				
H 16 23					little Silt, trace clay				
17 24					Dark Gray c/mf SAND, little Silt, trace clay, trace f Gravel w Pieces of Shell				0.0 PPM

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-13-33	**COORDINATES:**	**DATE:** 05/11/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/11/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
25		18	50		Dark Gray cmf SAND, little Silt, trace clay, trace f Gravel by pieces of shell				0.0 PPM
26		19							
27		20			End of the Boring at 27.0' (from slab)				
28									
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-34	COORDINATES:	DATE: 05/11/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/11/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete slab				
A-1,2 1					Dark Brown cmf SAND, little Silt, trace f Gravel w/ pieces of Rock				
2					w/ pieces of Concrete.	F			0.0 ppm
B			63		Dark Brown cmf SAND, little cmf Gravel, trace Silt w/ pieces of Rock				
3									
4					Brownish Gray cmf SAND, little Silt, trace cmf Gravel,	F			
C 5					w/ pieces of Brick, shell				0.0 ppm
					w/ cmf Gravel				
6			67						
D									
7					w/ pieces of concrete Rock				Grd. T.O'
8					Black cmf SAND, little Silt trace clay	F			
E 9									
10			71		Black cmf SAND, little mf Gravel, trace Silt w/	F			
F					Pieces of Rock, Bricks.				0.0 ppm
11					Cinders				
12					↓				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-34	COORDINATES:	DATE: 05/11/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/11/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
G 13					Black cmf SAND, little cmf Gravel, trace Silt trace clay & Piece of Rock	F			
14			67						
H 15									1 ppm 15-16' Sheen
16					Piece of wood (16-18')	F			
17									0.0 ppm
18			63		Brownish Gray CLAY, little Silt	CL			
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-35	COORDINATES:	DATE: 07/19/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED:	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
					Concrete / slab				
1									
A- 2					Gray & Brown cmf SAND, little Silt, trace mf Gravel by Rock, concrete	F			0.0
			76		Yellowish Brown cmf SAND, little Silt, trace mf Gravel trace clay by pieces of Rock wood.				
B 4									
5									
C 6					Brownish yellow cmf SAND, little Silt, trace clay by pieces of shell Rock, gravel	F			0.0
7									
D			70		Gray & Brownish yellow cmf SAND, some Silt, trace mf Gravel, trace clay by Pieces of shell	F			0.0
9									
E 10					Gray cmf SAND, little mf Gravel, trace Silt trace clay by Pieces of Shell	F			0.0
11									
F 12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-35	COORDINATES:	DATE: 07/19/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED:	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID CB84
13			77		Gray cmf SAND, little Silt, trace mf Gravel by Pieces of shell	f			Hydrate fill 0.0
14									
15					Gray cmf SAND, little Silt, trace clay by Pieces of shell	f			Hydrate fill
16									0.0
17			70						
18					Gray cmf SAND, little Silt, trace clay by Pieces of shell	f			Hydrate fill
19									
20									
21			68		Gray cmf SAND, little Silt trace clay	sm			0.0
22									
23					Gray SILT, little mf Sand, trace clay	ml sm			0.2
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-35	COORDINATES:	DATE: 07/19/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/19/04	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Gray SILT, little of Sand trace clay				Piezometer 0-2
25					End of the Boring at 25.0'				
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-36	COORDINATES:	DATE: 07/19/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/19/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
					Concrete/ slab				
1									
A-1 A-2 2					Gray & Brown mf SAND, little mf Gravel, trace Silt & Pieces of Rock, wood, cement.	F			0.0
3			60						
B 4					Gray cmf SAND, little Silt, trace mf Gravel	F			0.0
5									
C 6					Gray and Black cmf SAND, some GRAVEL, little Silt, trace clay & Pieces of Rock.	F			0.0
7									
D 8			77		Brown				
					Greyish Brown cmf SAND,				
9					little mf Gravel, trace Silt, trace clay & Pieces	F			0.0
E 10					of Rock				BGL-10.0'
					Grey cmf SAND, little				
11			72		mf Gravel, little Silt & Pieces of Rock, wood	F			0.0
F 12					clady				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-36	COORDINATES:	DATE: 07/19/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/19/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS ppm
13	G				Black and Gray cmf SAND, little Silt, trace mf Gravel by Pieces of wood, clothes concrete	F			0.0
14									
15	H				Black mf SAND, some Silt, trace clay by Pieces of Paper, wood	F			0.0
16			77						
17	I				Black cmf SAND, little Silt, trace mf Gravels, trace clay by Pieces of Brick, cinder				0.0
18									
19					by Pieces of Brick, wood				sheen
20					Gray SILT, little mf Sand	F			
21					Dark Gray cmf SAND, little Silt, trace clay				
22	J-1		65		Gray cmf SAND and GRAVEL little Silt, trace clay by Pieces Brick, cinder Rock				0.0
23					Gray SILT, little mf Sand trace clay	ML			
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-36	**COORDINATES:**	**DATE:** 07/19/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/19/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
25					Gray SILT, little mf Sand trace Clay	ML			PID 0.0
26					End of the Boring at 25.0 feet				
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-37	COORDINATES:	DATE: 07/19/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/19/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID Ppm)
1					Concrete / Asphalt				
2					Asphalt / concrete				
A 3			33		Brown cmf SAND, little mf Gravel, trace Silt & pieces of Brick, Rock, concrete	F			0.0
4									
B 5					Dark Brown cmf SAND, little clay, little mf Gravel trace Silt & piece of Rock	F			
6									0.0
C 7					↓				
			33		& pieces of Rock, Brick				
8									
D 9					Black mf SAND, little Silt, trace mf Gravel & pieces of Rock, Brick.	F			0.0
10									
E 11					Black / Grey mf SAND, little clay, trace mf Gravel & pieces of Rock, Coal, Brick	F			0.0
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-37	COORDINATES:	DATE: 07/19/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/19/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS ppm
F					Gray cmf SAND and GRAVEL, little silt, trace clay & Piece of Rock, wet.	F			0.0
13			81						
14					Pieces of wood	F			sheen
G 15					Black cmf SAND, little mf Gravel, trace silt, & Piece of cinder, Rock				0.0
16									
17			77		Black cmf SAND, little cmf GRAVEL, trace silt & Piece of Rock, Black Brown & Gray cmf SAND, little mf Gravel, trace silt & Piece of Rock.	F			0.0
H 18									
19						F			
20									
21			NR		No Recovery	F/CL			
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: S1-7-B-37	**COORDINATES:**	**DATE:** 07/19/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/19/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/19/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID
25					Gray CLAY	CL			
26					Gray cmf SAND, little Silt, trace clay & Pieces of shell	SP			0.0 ppm
27			58						
28									
29									
30					End of the Boring at 30.0'				
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-38	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
					8" concrete slab				
1									
2					O				
3					P				
4					E				
5					N				
6									
7									
8									
A-1 A-2 1 8					Gray cmf SAND, little Silt, trace clay & Rodc	F			0.0 PPM
2 10			70		White concrete and mf Sand & Rodc, gravel.	F			
B- 3 11					White concrete/ mf sand & gravel, Rodc	P			0.0 PPM
12					Black cmf SAND, little Silt- trace mf Gravel & cinder, concrete	F			0.0 PPM

NOTES:

A, A_2 = 0-1

B = 2-3

JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-38	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
4									
C 5 13					Black and Dark Gray cmf SAND and GRAVEL, trace Silt w Pieces of Rock, wood cinders, coal ash	F			0.0 PPM
6 14			40						
D 7 15									
8 16					Black and Gray cmf SAND little cmf Gravel, trace Silt-	F			
E 9 17			67		trace clay, Rock, Brick				0.0 PPM
10 18					w Pieces of concrete, wood,				
F 11 19					w Pieces of concrete				
12 20					Black and Brown cmf SAND, some GRAVEL, little Silt- trace clay w Piece of Rock Brick.	F			0.0 PPM
13 21									
14 22			30			F			0.0 PPM
15 23									
G 16 24									

NOTES: C = 4-5 E = 8-9
D = 6-7 F = 10-11 JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-38	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
16					Gray cmf SAND, little mf Gravel, trace clay	SP			
17 25									0.0
18 26			60		Gray cmf SAND, little Silt, little mf Gravel trace clay	SP/CL			0.0
H 19 27					Gray SILT/CLAY, trace f Sand & decomposed wood	CL			0.0
20 28									
21 29					End of the Boring at 28.0'				
30									
31									
32									
33									
34									
35									
36									

NOTES: H = 18-19 dk 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: S2-7-B-30	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
					8" Concrete slab				
1									
2									
3									
4									
5									
6									
7									
8									
9	A	1			Gray and Black cmf SAND, little silt, trace clay & Pieces of Rock, wood, cinder	F			0.0 ppm
10		2	60		} concrete / rocks shells Brick	F			0.0 ppm
11	B	3							
12		4			Black cmf SAND, little silt & Piece of Brick & Piece of wood	F			0.0 ppm

NOTES: A = 0-1
B = 2-3

JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-B-39	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 **OF** 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
C 13	5				Brownish Gray cmf SAND, little Silt, trace clay & Pieces of Rock, wood, Silt	F			0.0 ppm
14	6		58						
D 15	7				Black & Gray cmf SAND, little Silt & Pieces of wood Rock	F			
16	8								0.0 ppm
E 17	9		20		Black & Gray cmf SAND, little mf Gravel, trace Silt & Pieces of wood rock	F			
18	10								
F 19	11								1.0 ppm
20	12								
G 21	13				Brownish Gray cmf SAND, little Silt, trace mf Gravel & Piece of wood. Brick.	F			
22	14		20						
23	15					F			0.0 ppm
24	16								

NOTES: C = 4-5 D = 6-7 E = 8-9 F = 10-11 G = 12-13

JR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-7-13-39	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS (PID (ppm))
25		17			Black cmf SAND, little Silt, trace clay & Piece of Rock	F			0.0 ppm
26		18	43		Red SILT, little F Sand & Piece of Rock (glacial till)	Till			0.0 ppm
27		19							
28		20							
29					End of the Boring at 28.0' feet				
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 27683000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-17-B1	COORDINATES:	DATE: 10/08/03	
ELEVATION: 13.42	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
1					Brownish yellow cmf SAND, little Silt, trace mf Gravel	F			0.0 PPM
2			25		Brown cmf SAND, little Silt, trace F Gravel & Pieces of Rock				
3						F			
4					Dark Gray cmf SAND, little Silt, trace mf Gravel & Piece of glass, steel etc.	F			0.0 PPM GBL: 5.0
5									
6			42		& Piece of Plastic				
7									
8					Dark Gray mf SAND, little Silt & mf Gravel & Pieces of white shell & clg.	SP			
9	A								2 PPM Paint odor
10			75		& CLAY & silt	cl/SP			
11									
12									

NOTES:

End of the Boring at 12.0'

0-8" - Slab
8" - 7.0' - open (?)

Depth from ground surface. under the Slab

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-21-B1	COORDINATES:	DATE: 10/09/03	
ELEVATION: 11.72	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/09/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Gray cmf SAND, little silt trace f Gravel w concrete Rock etc	F			0.0 ppm
					↓ Brick				
2			79		↓ Dark Gray cmf SAND, little Silt w Pieces of Rock wood etc	F			0.0 ppm
3					Pieces of concrete, Brick etc	F			0.0 ppm
4					↓				
					Dark Gray & White cmf SAND w gravel, Brick etc	F			0.0 ppm
5									
6			67		Concrete Pieces of Rick, wood, Paper Plastic				0.0 ppm GWL. 7.0
7	A				End of the Boring at 7.0		Refusal.		
8									
9									
10									
11									
12									

NOTES: Oil / H_2O shake Test. Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-21-B2	COORDINATES:	DATE: 10/09/03	
ELEVATION: 11.48	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/09/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Dark Gray cmf SAND, little cmf Gravel & Brick Concrete, Rock etc. & wood	F			
2			67		Dark Gray cmf SAND, little cmf Gravel, trace Silt & pieces of Concrete wood, Brick etc	F			0.0 PPM
3									
4					Dark Gray cmf SAND, little cmf Gravel, trace Silt & pieces of Brick, concrete	F			0.0 PPM
5									
6			75		Dark Gray cmf SAND, little Silt & mf Gravel & pieces of wood, Brick etc	F			0.0 PPM
7									9@ 8.5'
8	A				pieces of Concrete (7 to 8.0') Dark Gray cmf SAND & Gravel & clay, Brick etc	F			98 PPM odor.
9					End of the Boring at 8.5	(Refusal)			
10									
11									
12									

NOTES: Oil / H2O Shake Test. Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-21-B3	COORDINATES:	DATE: 10/09/03	
ELEVATION: 10.19	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/09/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1	A		38		Dark Gray cmf SAND, little mf Gravel, trace Silt & pieces of Brick	F			PID (ppm) 0.0 ppm
2					Dark Gray cmf SAND, little Sat. & cement Rock etc Dark Gray mf SAND, & Rock concrete etc	F			
					End of the Boring at 2.0' (Refusal)				
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

NOTES: Oil / H_2O shake Test - Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-21-B4	COORDINATES:	DATE: 10/09/03	
ELEVATION: 10.39	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED:	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Dark Gray cmf SAND little Silt, cmf Gravel by Pieces of Concrete, Brick Wood, wire, metal cloth	F			0.0 PPM
2			83		Dark Gray cmf SAND, little Silt, trace clay by Pieces of Rock, Brick Wood.	F			0.0 PPM
3									
4									
5			63		Dark Gray cmf SAND, little cmf Gravels, little Silt by Brick, Plastic. Glass	F			0.0 PPM
6					Brick	F			
7	A				by concrete End of the Boring at 7.0'				(Refusal)
8									
9									
10									
11									
12									

NOTES: Oil / H_2O Shake Test - Performed.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-21-B10	COORDINATES:		DATE:	11/04/03
ELEVATION / DATUM:	at grade (millings)	GWL: Depth:	7.8 ft Date/Time:	TIME STARTED:	12:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			3.2		0-4.0 ft FILL dk. brown to reddish-brown crushed stone, brick fragments, and concrete, in f. sand matrix, tr. coal ash, moist.		0		
2									
3							0		
4									
5			3.9		4.0-8.0 ft. FILL (same as above) saturated at 7.8 ft		0		
6									
7							0		
8									
9			2.0		8.0-12.0 ft FILL dk. brown to reddish-brown concrete and brick fragments, little f. sand, saturated.		0		
10									
11							0		
12									

NOTES: **E.O.B. at 12.0 ft (refusal)**

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-21-B11	COORDINATES:	DATE: 11/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/17/03	
DRILLING METHODS: ~~Geoprob Rig~~ Hollow Stem Auger. Split spoon Sampling		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
0					fill Material	F			
1									
2									
3									
4					↓ Concrete / wood				
5									
6									
7									
8					↓ concrete slab				
9									
10									
11									
12					↓				

NOTES: Oil/H2O Shake Test. Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-21-B11	COORDINATES:	DATE: 11/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
	S-1	12-14			Grayish Green mf SAND,	F			PID 0.0
		8			Some Silt, trace clay				
13		10	80						
		10							
		8							
14		14-16							
	S-2	3							
		5							10 oily
15		4	75		Black cmf SAND, little	F			faint odor
		3			mf Gravel, trace Silt				
16		16-18			Dark Gray cmf SAND and				
	S-3	8			GRAVEL, little silt & pieces	F			15
		6			of Rock				sheen
17		7	60						
		3			Dark Gray cmf SAND, little				
18	S-4	8			Silt, trace mf Gravel	F			
		3			Gray cmf SAND, little				
		5	65		Silt, trace mf Sand				
19		2							
					Organic SILT, & pieces	pt			
20					of decomposed wood.				0.0
					(Rest)				
21									
22									
						pt			
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276080000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-21-B11	**COORDINATES:**	**DATE:** 11/17/03	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 11/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 11/17/03	
DRILLING METHODS: Geoprob Rig		**PAGE:** 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
25	S-5	25-27			Dark Gray CLAY & Peat & decomposed wood	OH/Pt			0.0
	S-5	3	75						
26		2							
		2							
27		2			End of the Boring at 27.0				
28									
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-29-B1	COORDINATES:	DATE: 10/07/03	
ELEVATION / DATUM: top of soil (2 ft below slab)	GWL: Depth: ~2 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	☒		1.4	###	0-4.0 ft. FILL coarse-grained coal ash (~90%) w./ gravel, saturated		0		Sample SI-29-B1-A 0-0.4 ft
2				###					
3				###			0		
4	☒			###					Sample SI-29-B1-B 3.6-4.0 ft
5				###	4.0-5.0 ft. FILL dk brown coal ash, nails, gravel, some silt & clay, saturated.		0		
6	☒		1.3		5.0-8.0 ft. dk gray silty CLAY, some plant remains (marsh deposits), saturated.		0		Sample SI-29-B1-C 5.6-6.0 ft
7							0		
8	☒				8.0-12.0 ft. (same as above)				Sample SI-29-B1-D 7.6-8.0 ft
9							0		
10			2.4						
11							0		
12									

NOTES:

E.O.B. at 12.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	**PROJECT NAME:**	*Former General Motors Assembly Plant Site, Sleepy Hollow, NY*		
BORING NUMBER:	SI-29-B2	**COORDINATES:**		**DATE:**	10/06/03
ELEVATION / DATUM:	top of soil (1 ft below slab)	**GWL:** Depth: ~2 ft	Date/Time:	**TIME STARTED:**	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	**TIME COMPLETED:**	13:55
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			**PAGE:**	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-4.0 ft. FILL lt orange brown crushed stone, concrete fragments, and silty f. sand, moist (saturated at 2.0 ft.).		0		
2	☒		1.2						Sample SI-29-B2-A 1.6-2.0 ft
3							0		
4	☒								Sample SI-29-B2-B 3.6-4.0 ft
5					4.0-8.0 ft. FILL dk black organic rish muck mixed w./ coal ash and crushed stone, saturated.		0		
6	☒		1.5				0		Sample SI-29-B2-C 5.6-6.0 ft
7									
8	☒				8.0-12.0 ft. dk. gray CLAY w./ plant remains (marsh deposits), saturated.		0		Sample SI-29-B2-D 8.0-8.4 ft
9									
10			2.8				0		
11									
12							0		

NOTES:

E.O.B. at 12.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-29-B3	COORDINATES:		DATE:	10/07/03
ELEVATION / DATUM:	top of soil (2 ft below slab)	GWL: Depth:	~2 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:12
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-4.0 ft. FILL black coal ash, concrete fragments, and gravel, saturated throughout.		0		
2	☒		1.2						Sample SI-29-B3-A 1.6-2.0 ft
3							0		
4	☒								Sample SI-29-B3-B 3.6-4.0 ft
5					4.0-5.0 ft. FILL black coal ash, concrete fragments, gravel, and clasts of gray clay, saturated.		0		
6	☒		1.5		5.0-8.0 ft. gray CLAY, w./ peat material (marsh deposits), moist		0		Sample SI-29-B3-C 5.6-6.0 ft
7									
8	☒						0		Sample SI-29-B3-D 7.8-8.0 ft
9					**E.O.B. at 8.0 feet**				
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	**PROJECT NAME:** Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-29-B4	**COORDINATES:**	**DATE:**	10/07/03
ELEVATION / DATUM: top of soil (~1.5 ft below slab)	**GWL:** Depth: ~2 ft Date/Time:	**TIME STARTED:**	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	**TIME COMPLETED:**	14:58
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1	☒		1.2	###	0-4.0 ft. FILL black coal ash, glass, and gravel, saturated throughout		0		Sample SI-29-B4-A 0-0.4 ft
2	☒			###					Sample SI-29-B4-B 1.6-2.0 ft
3				###			0		
4	☒			###	4.0-5.0 ft. FILL (same as above)		10-38		Sample SI-29-B4-C 4.0-4.8 ft
5			1.6	~~~	5.0-8.0 ft. dk gray CLAY, some plant remains (marsh deposits), saturated.		0		
6	☒			~~~					Sample SI-29-B4-D 6.0-6.4 ft
7				~~~					
8					**E.O.B. at 8.0 feet**		0		
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B5	COORDINATES:	DATE: 10/07/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					4" Asphalt 10" Concrete				
1					Black cmf SAND, some cmf Gravel, trace Silt & pieces of Gravel, concrete wood, coal Ash	F			0.0 ppm
2			38						Coal Ash 2.0 to 4.0'
3	A								
4	B				Brown cmf SAND, little Silt, glass, coal Ash	F			0.0 - 4.0'
5					Brown cmf SAND, little Silt, trace clay & pieces of wood, Rock, Brick	F			0.0 ppm
6	C		13						
7									
8	D				Brown cmf SAND, little Silt, trace clay				
9					Brown SILT (organic) & decomposed wood	Pt			0.0 ppm
10			75						
11									
12									

NOTES: End of the Boring at 12.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B6	COORDINATES:	DATE: 10/07/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (ppm))
					4" Asphalt 10" concrete				
1					Black coal Ash w/ mf Sand, trace Silt, cinder	F			0.5 ppm
2			46						
3	A				Dark Gray & Black, cmf SAND, little silt w/ coal Ash w/ pieces of Rock	F			0.0 ppm
4	B								Foot odor
5					Black & Brown cmf SAND, little Silt, trace clay w/ Pieces of Brick	F			0.5 ppm
6	C		21		Brown cmf SAND, little Silt	SP SM			6 ppm
7	D				Brown SILT (Organic) w/ decomposed wood	Pt			
8									
9									
10			100						
11									
12									

NOTES: End of the Boring at 12.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276990000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29 B7	COORDINATES:	DATE: 10/07/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/07/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (ppm))
1					4" Asphalt- 10" slab concrete.				
2	A		46		Coal Ash & Sand, gravel, glass	F			0.7 ppm
3					Pieces of glass				
4	B				Black & Brown cmf SAND, Some mf Gravel, trace Silt & pieces of Rock, Brick.	F			
5	C				Dark Gray cmf SAND & mf Gravel, trace Silt & Piece of Rock Brick	F			0.0 ppm
6	D		17		Brown SILT (organic) & decomposed wood	ML/OL / Pt			
7									
8									
9									
10			79						
11									
12									

NOTES: End of the Boring at 12.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B8	COORDINATES:	DATE: 10/07/08	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/07/08	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/07/08	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS (PID CRDW)
0					4" Asphalt 10" concrete slab				0.0
1									
2	A		67		Coal Ash w/ Sand Gravel. Rock etc	F			Coal Ash 1.8 - 3.5' 0.2 PPM
3					Brownish yellow mf SAND, Some Silt & clay w/ piece of concrete Coal Ash	F			
4	B								
5	C				Brown cmf SAND, little mf Gravel. trace Silt	F			
6	D		38			F			
7					Brown SILT (organic) w/ decomposed wood	pt			
8									
9					End of the Boring at 6.5'				
10									
11									
12									

NOTES:

Fill material up to 6.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SL-29-B-9	COORDINATES:	DATE: 04/29/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/29/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					6" Asphalt				
					6" concrete.				
1					Dark Gray and Black cmf SAND, little f Gravel, trace Silt & Pieces of Brick				
A 2			75		Coal Ash. cinder	F			0.5 PPM
3					Black mf SAND, little Silt & pieces of Coal Ash. Cinder				
B 4					Dark Brown cmf SAND,	F			
					little mf Gravel, trace Silt & pieces of Rock				
5					Dark Gray CLAY	CL			0.0 PPM
C 6					Dark Brown SILT, trace clay & decomposed wood. (Peat)	PT			
7									
D 8									
9									
E 10						PT			70 PPM
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-13D	COORDINATES:	DATE: 04/29/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/29/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					4" Asphalt-				
					8" Concrete				
1					Black cmf SAND, little Silt, trace mf Gravel, trace Silt/clay w Pieces of Rock Brick, glass etc	F			0.2 PPM
A 2			62						
3					w Coal Ash				
B									
4					Brown cmf SAND, little Silt/clay w Pieces of Rock	F			
5					Dark Gray CLAY	CL			0.2 PPM
C 6			75						
					Brown SILT, little clay w Pieces of decomposed wood. (Peat)	Pt			
7									
D 8									
9									
E									1 PPM
10			88						
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-10	COORDINATES:	DATE: 04/29/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/29/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Brown SILT, trace clay w/ pieces of decomposed wood.	Pt			
14			75		Light Green cmf SAND, little Silt, trace clay, trace f Gravels w/ piece of wood (2-i.)	SP			0.0 ppm
15									
16					End of the Boring at 16.0' feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-11	COORDINATES:	DATE: 04/29/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/29/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					3" Asphalt Brown cmf SAND, little mf Gravel, trace Silt & Pieces of Brick, glass	F			0.0 PPM
2			63		Black cmf SAND, little mf Gravel, trace Silt & Coal Ash				
3									
4					Green cmf SAND, little f Gravel, trace Silt & Pieces of metal, wood.	F			0.0 PPM
5					& Pieces of metal, wood.				
6			38		Blackish Brown mf SAND, little Silt, trace f Gravel & Pieces of Rock, metal.	F			1 PPM
7									
8					Gray cmf SAND, little Silt, trace clay	SP			
9									
10			75		Gray CLAY	CL			0.0 PPM
11					Brown SILT, trace clay & Pieces of decomposed wood	Pt			
12									

A B C D E F

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-11	COORDINATES:	DATE: 04/29/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/29/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/29/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Brown SILT, little clay & pieces of decomposed wood.	Pt			50 PPM
14			88						
15									
16									
17									0.1 PPM
18			96						
19									
20					Brown and Gray SILT, little clay & pieces of decomposed wood.	Pt			
21									2 PPM
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-11	COORDINATES:		DATE: 04/29/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 04/29/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 04/29/04
DRILLING METHODS: Geoprob Rig			PAGE: 3 OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
25					Brown SILT, trace clay w pieces of decomposed wood	pt			
26			96		Gray cmf SAND, little Silt, trace clay w pieces of decomposed wood	SP			0.0 PPM
27									
28					End of the Boring at 28.0' feet				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-12	COORDINATES:	DATE: 04/30/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/30/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/30/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					3" Asphalt				
					6" Concrete				
1					Black cmf SAND, little Silt, trace mf Gravel by Pieces of Rock, coal ash wood	F			
2			75						1 ppm
					Coal Ash				
3									
4					Brown mf SAND by Pieces of wood, coal Ash				
5					Brownish yellow mf SAND, little Silt, trace clay by Pieces of Rock				
6			38		Brownish yellow mf SAND				
					Dark Gray CLAY	CL			0.0 ppm
7					Brown SILT, trace Pieces of decomposed wood	Pt			
8									
9									15 ppm
10			88						
11									20 ppm
12									

A B C D E F

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-12	COORDINATES:	DATE: 04/30/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/30/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/30/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Brown SILT, trace clay by Pieces of decom- posed Wood	Pt			
14			88		by little clay				15 ppm
15									
16					Dark Brown SILT, some clay by pieces of decom- posed Wood	Pt			
17									10 ppm
18			85						
19									
20					Dark Brown SILT and CLAY by Pieces of decomposed Wood	Pt CL			
21									
22			90		Gray mf SAND, little Silt, trace clay by Pieces of Wood	SM			
23									5 ppm
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-13	COORDINATES:	DATE: 05/11/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/11/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
0					Asphalt				
1									
					Concrete				
2									
A					Black cmf SAND, little Silt, trace mf Gravel	F			
3			100		trace Silt w/ pieces of Coal Ash, cinder, Rock				0.0 PPM
4									
B					Dark Gray and Brown CLAY, little Silt, trace mf Gravel.				
5									0.0 PPM
6			88		Brown SILT, trace clay w/ pieces of decomposed wood.	F			
C									
7						PT			
8									
D									
9									2 PPM
			81						
10									
E									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-13	COORDINATES:	DATE: 05/11/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/11/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Brown SILT, little clay w/ pieces of decomposed wood	ML			0.0 ppm
14			50		Light Green Gry SAND, little silt, trace clay, trace f Gravel w/ pieces of wood (2-1")	SP			0.0 ppm
15									
16					Fine green Gry SAND, little silt, trace clay				0.0 ppm
17									
18			70						
19					Green CLAY, little Silt, trace f Sand				0.0 ppm
20					End of the Boring at 20.0 feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-14	COORDINATES:	DATE: 05/12/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/12/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/12/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Asphalt w/ sand, silt- w/ piece of Rock.				
2					Concrete				
A 3			75		Black cmf SAND, little Silt w/ coal ash, cinder	F			18 PPM
4					Black SILT, trace f Sand w/ pieces of coal ash				79 PPM
B 5					Black cmf SAND, little Silt, trace clay w/ pieces of Cal ash, rock.	F			
6			38		No Recovery				
C 7					Gray cmf SAND, little cy Gravel, trace silt/clay				0.0 PPM
8					Dark Gray CLAY, trace Silt	CL			
D 9					Brown SILT w/ pieces of decomposed wood. trace clay	Pt			
10			83						0.0 PPM
E 11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-14	COORDINATES:	DATE: 05/12/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/12/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/12/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Brown SILT, trace clay w/ pieces of decomposed wood	Pt			3 ppm
14			75						
15									
16					Brown & Gray CLAY, some Silt w/ pieces of decomposed wood	CL/Pt			0.0 ppm
17									
18			67						
19									
20									
21									
22			83		Dark Gray CLAY w/ pieces of decomposed wood	CL			
23					Pale green cmf SAND, little Silt, trace clay	SM			0.0 ppm
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-15	COORDINATES:	DATE: 05/11/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/11/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Asphalt				
1					Concrete				
A 2					Black cmf SAND, little Silt, trace clay, trace mf Gravel w/ pieces of glass, plastic				0.0 ppm
3			75						
B 4					Brownish Gray cmf SAND, little Silt, trace clay, trace mf Gravel w/ pieces of Rock				
5									
C 6			67		Dark Gray CLAY, trace Silt, trace f Sand		CL		
7									0.0 ppm
D 8					Brown SILT w/ pieces of decomposed wood.		Pt		
9					Brown SILT, trace clay w/ pieces of decomposed wood				
10			75						
11							Pt		0.0 ppm
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-15	COORDINATES:	DATE: 05/11/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/11/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Brown SILT, trace clay w/ pieces of decomposed wood	Pt			0.0 ppm
14			54						
15									
16									
17					Pale green cmf SAND, little Silt, trace clay	SM			
18			75						0.0 ppm
19					Green CLAY, little Silt trace f Sand	CL			0.0 ppm
20					End of the Boring at 20.0 feet.				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-16	COORDINATES:	DATE: 05/11/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/11/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/11/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Asphalt				
					Concrete				
1					Black and Dark Gray cmf SAND, little mf Gravel, trace Silt by Piece of Rock, coal ash, cinder glass	F			0.0 PPM
2			54						
3									
4					Black and Dark Brown mf SAND, little Silt, little mf Gravel by coal ash, cinder, Brick	F			
5									
6			67						
7					Dark Gray and Brown cmf SAND, little Silt, trace clay	F			0.0 PPM
8					Dark Gray CLAY, trace Silt	CL			
9					Brown SILT, trace clay by Piece of decomposed wood.	PT			
10			75						
11						PT			
12									

A B C D E

NOTES: End of the Boring at 12.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-13-17	COORDINATES:	DATE: 05/12/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/12/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/12/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Asphalt-				
2					Concrete				
A 3			54		Black cmf SAND, little clay, trace cmf Gravel w/ piece of Rock, metal coal Ash				
4					Dark Gray SILT, little f Sand				3.5 - 4.0'
B 5					Black cmf SAND, little cmf Gravel, trace SILT & Pieces of Rock, Wood Brick.				150 ppm
6			38						80 ppm
C 7									0.0 ppm
8									
D 9									
10			NR		No Recovery				
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-17	COORDINATES:	DATE: 05/12/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/12/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/12/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Brown SILT, trace clay w/ Pieces of wood	Pt			
14			100						
15									
16					End of Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-18	COORDINATES:		DATE: 05/12/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 05/12/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 05/12/04
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					6" Asphat				
					6" Concrete				
1					Black cmf SAND, little cmf Gravel, trace Silt by Pieces of Coal ash	F			0.0 PPM
2									
			38						
3									415 PPM
4					Black and Gray cmf SAND, little Silt, trace clay & Pieces of Rock, asphalt glass.	F			0.0 PPM
5									
6			31						
7									
8					Dark Gray CLAY, trace Silt	CL			
9									
10			NR		No Recovery				
11					Peat ?				
12									

A B C D E

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-18	COORDINATES:		DATE: 05/12/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 05/12/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 05/12/04
DRILLING METHODS: Geoprob Rig			PAGE: 2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Brown SILT, trace clay w/ pieces of decomposed wood.				0.0 ppm
14			83						
15									
16					Dark Gray CLAY w/ pieces of decomposed wood				
					End of the Boring at 16.0' feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-19	COORDINATES:	DATE: 05/12/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/12/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/12/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Asphalt				
					Concrete				
1									
A 2					Black cmf SAND, little clay, trace Silt & coal ash. Rock. cinders	F			0.0 PPM
			54						
3									
B 4					Black cmf SAND, little Silt, little f Gravel, trace clay & coal ash. cinder	F			
5									
C 6			75		Dark Gray cmf SAND, little Silt, little f Gravel, trace clay & pieces of metal, plastic	F			1.5 PPM
7									
D 8					Dark Gray & Brown cmf SAND and GRAVEL, little Silt & pieces of Rock, wood.	F			
9									0.0 PPM
E 10			83		Black cmf SAND, little Silt, trace clay, trace f Gravel & pieces of Brick, metal	F			
11					Dark Gray CLAY	CL			
12					Brown SILT & wood.	ML			0.0 PPM

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-19	COORDINATES:	DATE: 05/12/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/12/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/12/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Brown SILT, trace clay w/ pieces of decomposed wood.				
14			100						
15									
16					End of the Boring at 16.0' feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-20	COORDINATES:	DATE: 05/13/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/13/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/13/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Asphalt w sand, silt-				
					Concrete				
1					Black and Brown cmf SAND, and mf Gravel				
A 2					trace Silt w pieces of				0.0 ppm
			75		coal ash, cinder, Rock				
3									
B									
4					Black cmf SAND, little				
					mf Gravel, trace Silt				0.0 PPM
5					w pieces of Rock, coal				
C					ash, cinder				
6			88						
					Dark Gray and Brown				
7					mf SAND, little Silt,				42 ppm
D					trace f Gravel w piece				
8					of Brick, metal.				
					Dark Gray cmf SAND,				
9					little Silt, trace mf				
					Gravel w pieces of Rock				
E					Brick				
10			75						0.2 ppm
					trace clay				
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-20	COORDINATES:	DATE: 05/13/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/13/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/13/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Brown and Dark Gray SILT, little clay & pieces of decomposed wood (Peat)	pt			
14			100						
15									
16					End of the Boring at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-21	**COORDINATES:**	**DATE:** 05/13/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/13/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/13/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Asphalt / concrete, lt mf Sand, Silt clay lt Rock				
A 1									
2					Black cmf SAND, little cmf Gravel, trace Silt trace clay lt pieces of cinder, coal ash, roots concrete	F			0.0 ppm
			46						
3									
B 4					Dark Gray CLAY, trace Silt	CL			
5					Brown SILT, trace clay lt pieces of	pt			
C									0.0 ppm
6			75		decomposed wood				
					Peat				
7									
D									
8						pt			
					Brown SILT, trace clay lt pieces of decompo- sed wood				
9									
			100						
10									
11									0.3 ppm
12									

NOTES: End of the Boring at 12.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SJ-29-B-22	COORDINATES:	DATE: 07/21/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/21/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					Asphalt / concrete.				
1									
A-					Gray and Brown cmf SAND, trace Silt, trace clay, trace cmf Gravel & Pieces of Rock, Brick	F-			0.0
2									
3			30						
B-									
4					Black cmf SAND, trace mf Gravel, trace Silt & Bricks	F-			0.0
5									
C-					Black cmf SAND, trace Silt, trace clay & Rock				0.0
6									
					↑				
7					No Recovery				
			70		↓				
8									
					Coal Ash	F-			0.0 ppm
9									
10									
D-					Gray cmf SAND, trace Silt trace clay & Wood (decom)				0.0 ppm
			87						
11					Brown Gray & CLAY, some Silt & Pieces decom. wood (less)	CL			0.0 ppm
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-22	COORDINATES:	DATE: 07/21/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/21/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID (PPM)
13					Gray SILT & CLAY				0.0 PPM
14									
15					End of the Boring at 15.0 feet				
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-23	COORDINATES:	DATE: 07/21/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/21/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
					Asphalt / concrete				
1									
A 2					Gray cmf SAND, little mf Gravel, trace silt & Pieces of Rock, cinders, Brick	F			0.0
3			58						
B 4					Black cmf SAND, little mf Gravel, trace silt & Pieces of wood, Brick etc	F			0.0
5									
C 6					Black & Gray cmf SAND, little silt & clay, trace cmf Gravel & Piece of Rock, wood	F			0.0
7									
			20						
8									
9					Black and Gray cmf SAND, little silt	F			0.0
10									
D 11					Black & Gray cmf SAND little silt, trace clay & wood	SM			0.0
12					Gray CLAY & decomposed Clear	CL			

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-29-B-23	COORDINATES:	DATE: 07/21/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/21/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS (8/7/2004)
13			80		Gray SILT & CLAY				0.0
14									
15					End of the Boring at 15.00 feet				
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

Date Start/Finish: 10/4/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B24
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
						ASPHALT.
				6.0		Brown medium to coarse SAND, trace Silt.
	1	0-4	2.42	4.4		Black Sand lens 3" thick with little Coal, moist.
				4.9		Brown medium to coarse SAND, trace Silt, saturated
5 -5						Brown fine SAND and SILT. (NATIVE)
	2	4-8	4.0	4.2		
				4.0		
						End of boring at 8.0' bgs.
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-1.0' bgs.
Sample B taken from 1.0'-2.5' bgs.
Sample C taken from 4.0'-5.0' bgs.
Sample D taken from 6.0'-8.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/4/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B25
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
		1	0-4	2.0	3.6 5.6		ASPHALT. Black fine to coarse SAND, trace Rock, trace Coal. Wet at 1.5' bgs.
5	-5	2	4-8	4.0	4.6 6.1		Black coarse SAND, some fine to medium Sand, saturated. Brown medium to coarse SAND, saturated. Brown medium SAND, some Silt, saturated. Brown SILTY CLAY, saturated.
							End of boring at 8.0' bgs.
10	-10						
15	-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Sample D taken from 6.0'-8.0' bgs.
Boring was backfilled with soil and patched

Date Start/Finish: 10/4/04	**Borehole Depth:** 12.0' bgs	**Well/Boring ID:** SI-29-B26
Drilling Company: B&B Drilling	**Surface Elevation:**	**Client:** General Motors
Driller's Name: Gordon Blewett	**Geologist:** J. Robertson	**Location:** Former General Motors Assembly Plant Site Sleepy Hollow, NY
Drilling Method: Geoprobe 4-foot Macrocore sampler		

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
	1	0-4	2.08	4.2 5.7 6.2		ASPHALT. Black-brown fine to coarse SAND, trace Brick, trace Coal, trace Glass, trace Rock.
						Gray medium to coarse subrounded SAND, saturated.
5 -5	2	4-8	3.08	6.0 5.5		Black fine SILTY SAND, organic material, saturated. Black PEAT, saturated.
10-10	3	8-12	3.42			Gray fine to medium SAND and SILT, saturated. Gray SILTY CLAY, saturated.
						End of boring at 12.0' bgs.
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Sample D taken from 6.0'-8.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/4/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B27
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
						ASPHALT.
						Black-brown fine to coarse SAND, trace Rock, trace Coal.
						Gray-black organic rich CLAY.
	1	0-4	2.17			Gray fine to medium SAND, some SILT, trace Clay, trace fine to medium Gravel.
						Gray fine to coarse SAND, some fine to medium Gravel, trace Clay, moist becoming saturated at 4.3' bgs.
5 -5	2	4-8	0.33			
						End of boring at 8.0' bgs.
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/4/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 4.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B28
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
				5.5		ASPHALT.
						Black-brown fine to coarse SAND, trace Rock.
	1	0-4	2.58	4.3		Brown fine to coarse subrounded SAND, wet.
						End of boring line at 4.0' bgs.
5 -5						
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample B taken from 2.0'-4.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/4/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 4.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B29
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
						ASPHALT.
				6.1		Black-brown fine to coarse SAND, trace Rock.
						Brown fine to coarse subrounded SAND. Rock from 1.08' to 1.17' bgs, wet.
	1	0-4	2.08	5.5		Brown SILTY CLAY, wet.
						End of boring at 4.0' bgs.
5 -5						
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-1.0' bgs.
Sample B taken from 1.0'-2.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/4/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B30
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
						ASPHALT.
				1.8		Black-brown fine to coarse SAND, some Silt, trace Rock, trace fine to medium Gravel, trace Glass, wet.
	1	0-4	2.08	1.9		Brown fine to coarse SAND, trace Gravel, trace Clay, trace Silt.
				1.1		Brown fine to coarse SAND, little Silt.
5 -5						Brown SILTY SAND, little Clay, trace Glass, wet.
	2	4-8	2.42			
						End of boring at 8.0' bgs.
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/5/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B31
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
							ASPHALT.
					1.8		Black-brown fine to coarse SAND, trace fine to medium Gravel, trace Brick, moist.
		1	0-4	2.75			Gray fine SAND, some Silt, little fine to medium Gravel.
					1.9		Gray fine to coarse SAND, little Silt, little fine to medium Gravel, saturated.
					1.1		Gray fine to coarse SAND, little Silt.
5	-5						
					1.2		Black PEAT with Glass.
		2	4-8	2.0			Gray fine to coarse SILTY SAND, Roots, and Organic material.
							End of boring at 8.0' bgs.
10	-10						
15	-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/5/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B32
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
				2.3		ASPHALT. Black fine to coarse SAND, trace Brick, trace Rock, trace fine to medium Gravel, trace Ash, trace Glass.
	1	0-4	3.0	2.2		Gray fine to coarse SAND, some Silt, saturated.
5 -5				1.3		Gray fine to coarse SAND and fine to medium GRAVEL, saturated.
	2	4-8	1.33			
						End of boring at 8.0' bgs.
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Boring was backfilled with siol and patched.

Date Start/Finish: 10/5/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B33
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0						ASPHALT.
				9.9		Black fine to coarse SAND, trace Wood, trace Rock, trace Gravel, trace Ash, saturated.
	1	0-4	2.66			Gray SILT and GRAVEL, trace Glass.
				2.2		Gray fine to coarse SAND, little Silt, saturated.
				1.6		
5 -5						
	2	4-8	1.0			
						End of boring at 8.0' bgs.
10 -10						
15 -15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-2.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Boring was backfilled with siol and patched.

Date Start/Finish: 10/5/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 8.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B34
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0						ASPHALT.
				1.7		Black-brown fine to coarse SAND, some Rock.
						PEAT.
	1	0-4	2.17	2.1		Brown fine to coarse SAND, some Silt, Roots, saturated.
						Brown fine to coarse SAND, some Silt, saturated.
5 -5						Brown fine SILTY SAND, saturated.
	2	4-8	1.17			
						End of boring at 8.0' bgs.
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-1.0' bgs.
Sample C taken from 4.0'-6.0' bgs.
Boring was backfilled with soil and patched.

Date Start/Finish: 10/5/04
Drilling Company: B&B Drilling
Driller's Name: Gordon Blewett
Drilling Method: Geoprobe
4-foot Macrocore sampler

Borehole Depth: 4.0' bgs
Surface Elevation:
Geologist: J. Robertson

Well/Boring ID: SI-29-B35
Client: General Motors
Location: Former General Motors Assembly Plant Site
Sleepy Hollow, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0						ASPHALT.
				1.2		Brown-black fine to coarse SAND and ROCK.
						Brown fine to coarse SAND, little Silt, wet.
	1	0-4	2.17	1.6		
						End of boring at 4.0' bgs.
5 -5						
10-10						
15-15						

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm.
Sample A taken from 0.0'-1.0' bgs.
Sample B taken from 1.0'-2.0' bgs.
Boring was backfilled with siol and patched.

SOIL BORING LOG

amec

PROJECT NUMBER: 27693000036	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-34-B1	COORDINATES:	DATE: 10/09/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/09/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
					Ashall- 6"				
					Brownish yellow mf SAND, little silt				0.0 PPM
1									
					Brown & yellow mf SAND, some silt	F			0.0 PPM
2			83						
3					Coal Ash w/ silt				
					Dark Gray SILT, little mf Sand				
4					Brownish yellow mf SAND, little mf Gravel, trace clay				0.0 PPM
	A								
5					Brick Red mf SAND, little Silt, trace clay	F			0.0 PPM
6			92						
					Dark Gray F SAND, some Silt, trace clay, trace cmf Gravels w/ pieces of Rock				0.0 PPM
7									
8					Dark Gray cmf SAND, little cmf Gravel, trace Silt & clay w/ pieces of wood	F			0.0 PPM
	B								
9					wood				
10			85						
11					concrete, wood	F			
12									

NOTES: End of the Boring at 12.0' (Refusal)

SOIL BORING LOG

amec

PROJECT NUMBER: 27632 30000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-34-B2	COORDINATES:	DATE: 10/09/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/09/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Asphalt - 6"				
					Brown & Black cmf SAND, little Silt, trace f Gravel & Rock	F			0.0 ppm
2			73		Brown & Yellow mf SAND, little Silt, trace mf Gravel and clay	F			0 ppm
3					Pieces of Concrete				
4					Dark Gray & Brownish Yellow mf SAND, little Silt & Coal Ash	F			0 ppm
5	A				Brown cmf SAND, little Silt, trace clay				Gut. 5.0'
					Red & Gray mf SAND, little Silt, trace clay & & Gravel	F			
6			83		Pieces of Rock				0 ppm
7									
8					Black CLAY				
	B				Red & Dark Gray cmf SAND little Silt, trace clay, little cmf Gravel & Pieces of Concrete	F			0 ppm
9			50		& Pieces of Concrete.				
10					End of the Boring, at 10.0'				
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-34-B3	COORDINATES:	DATE: 10/09/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/09/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPm)
					Asphalt - 6"				
1					Brown cmf SAND, little Silt & Piece of Gravel, Brick etc	F			0 PPM
2			54		Dark Brown cmf SAND, little Silt, trace mf Gravel Pieces of Concrete - 3"	F			0 PPM
3					Coal Ash - 2"				
4					Yellowish Brown cmf SAND, little Silt, trace clay & f Gravel	F			0 PPM
5	A				cmf Gravel & clay				Qual. S.O.
6			67						
7					Gray cmf SAND, little Silt, trace clay & Piece of Rock	F			0. PPM
8	B				Dark Gray & Red cmf SAND, little Silt, trace clay, little cmf Gravel	F			0 PPM
9									
10			25						
11					Rocks, Concrete	F			
12					Concrete & Rocks.				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-34-B4	COORDINATES:	DATE: 10/09/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/09/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/09/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Dark Gray cmf SAND, little cmf Gravel, little Silt & pieces of Rock Brick roots etc	F			0.0 PPM
2			75		Dark Gray cmf SAND, little Silt, trace clay	F			0.0 PPM
3									
4					Dark Gray mf SAND, little Silt, trace clay, trace mf Gravel & Brick	F			Grab 5.0'
5	A				Red cmf SAND, little Silt, trace clay (4-6')				0.0 PPM
6					Dark Gray cmf SAND,	F			
7			67		little cmf Gravel, trace Silt & clay & pieces of Rock				
8	B				Dark Gray cmf SAND,	F			0.0 PPM
9			50		little Silt, little mf Gravel trace clay & concrete, cobbles				
10					End of the Boring at 9.0	(Refusal)			
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-1	COORDINATES:	E 666124.11, N 819886.12	DATE:	10/09/03
ELEVATION:	13.45 ft	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	7:35
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1			2.9		0.0-4.0 ft FILL: med. brown f. SAND, some oyster shells, tr. gravel, moist				PID = 0 ppm
2									PID = 0 ppm
3									PID = 0 ppm
4									PID = 0 ppm
5			2.7		4.0-7.5 ft FILL (same as above) groundwater at approx. 7 ft.				PID = 0 ppm
6									PID = 0 ppm
7									PID = 0 ppm
8					7.5-8.0 ft m. brown sandy SILT, moist, tr. coal (FILL)				
9			3.1		8.0-10.0 ft dark brown sandy SILT, saturated, strong petroleum odor, (possible semi-confining layer).				PID = 1.5 ppm PID = 120 ppm PID = 288 ppm
10					10.0-12.0 ft dk grey (stained) to reddish brown m-c SAND, little gravel, strong fuel oil odor. Oily soil from10.0 ft to about 11 feet. Oil/water shake test shows light oily sheen w./ light colored blebs of oil. E.O.B. at 12.0 ft.				PID = 75 ppm PID = 1.7 ppm PID = 0 ppm
11									
12									

NOTES: No samples collected; oily horizon from 10 to 11 feet (odor and color suggestive of light fuel oil).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-2	COORDINATES:	E 666134.29, N 819904.73	DATE:	10/09/03
ELEVATION:	13.19 ft (base of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	9:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1			3.1		0.0-4.0 ft FILL: med. brown f. SAND, tr. oyster shells, moist				PID = 0 ppm
2									PID = 0 ppm
3									PID = 0 ppm
4									PID = 0 ppm
4					4.0-5.5 ft FILL (same as above)				PID = 0 ppm
5									PID = 0 ppm
6			3.9		5.5-8.0 ft FILL; med. brown to reddish brown f. SAND, tr. oyster shells, tr. coal ash, tr. asphalt fragments (groundwater at about 7 ft)				PID = 0 ppm
7									PID = 0 ppm
8									PID = 0 ppm
8				### # ## ###	8.0-8.5 ft FILL: crushed stone, asphalt, and m. brown. f. SAND				PID = 11ppm
9			2.4		8.5-12.0 ft reddish brown to dark grey or black (where oil stained) f. SAND, grades into m-c SAND with depth, saturated. Strong petroleum odor (dark grey oil staining from 8.5 to about 11.5 ft.)				PID = >300 ppm
10									PID = >400 ppm
10									PID = 500-600 ppm
11									PID = 500+ ppm
12									PID = 10-20 ppm

NOTES: No samples collected; oily horizon from 8.5 to 11.5 feet (odor and color suggestive of light fuel oil).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-2	COORDINATES:	E 666134.29, N 819904.73	DATE:	10/09/03
ELEVATION:	13.19 ft (base of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	9:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			2.6		8.0-12.0 ft reddish brown arkosic f-m-c SAND, saturated. (no staining or petroleum odor noted)				PID = 0 ppm
14									PID = 0 ppm
15									PID = 0 ppm
16									PID = 0 ppm
					E.O.B. at 16.0 ft				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-3	COORDINATES:	E 666152.39, N 819894.49	DATE:	10/09/03
ELEVATION:	13.13 ft (base of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1			2.8		0-4.0 ft FILL: med. brown f. SAND, some oyster shells, moist, tr. gravel, tr. c. sand.				PID = 0 ppm
2									PID = 0 ppm
3									PID = 0 ppm
4									PID = 0 ppm
5			3.1		4.0-8.0 FILL: same as above, wet at 7 feet.				PID = 0 ppm
6	X				Sample SI-37-B3B collected at 6.0 to 6.5 ft				PID = 0 ppm
7				▽					PID = 0 ppm
8	X		3.2		8.0-12.0 ft dk. brown f. SAND grading into f-m SAND with depth, saturated. Sample SI-37-B3A collected at 8.0 to 8.5 ft.				PID = 0 ppm; head space & O/W tests both negative
9									PID = 0 ppm
10									PID = 0 ppm
11									PID = 0 ppm
12									

NOTES: No evidence of oil; o/w shake test, head space, and PID all negative; no sheen or staining observed. Confirmation soil samples colected from saturated and unsaturated zone. Sample order reversed (sample A collected below sample B)

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-3	COORDINATES:	E 666152.39, N 819894.49	DATE:	10/09/03
ELEVATION:	13.13 ft (base of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			2.9		12.0-16.0 ft reddish brown m-c SAND, saturated.				PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm
16					E.O.B. at 16.0 ft				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-4	COORDINATES:	E 666143.38, N 819876.31	DATE:	10/09/03
ELEVATION:	12.62 ft (base of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	8:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1			2.8		0.5-4.0 ft FILL: med. brown silty f. SAND, brick fragments, tr. coal ash, tr. crushed stone, tr. concrete, moist				PID = 0 ppm
2									PID = 0 ppm
3									PID = 0 ppm
4									PID = 0 ppm
5	X		3.2		0-4.0 ft FILL: med. brown silty f. SAND w./ up to 25% coal ash by volume, moist. Sample **SI-37-B4B** collected at 5.0 to 5.5 ft				PID = 0 ppm
6									PID = 0 ppm
7				▽					PID = 0 ppm
8	X				7.5-8.0 ft dk. brown f. SAND, saturated. Sample **SI-37-B4A** collected at 7.5 to 8.0 ft.				PID = 0 ppm
9			3.2		8.0-11.0 ft dark reddish-brown silty f. SAND, saturated.				PID = 0 ppm
10									PID = 0 ppm
11									PID = 0 ppm
12					11.0-12.0 ft dark reddish-brown arkosic m-c SAND, saturated.				PID = 0 ppm

NOTES: No petroleum odor, staining, or elevated PID readings obtained (including head-space analysis). Very slight sheen observed in o/w shake test at 7-10 ft interval. Confirmation soil samples collected from saturated and unsaturated zone. Sample order reversed (sample A collected below sample B).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-4	COORDINATES:	E 666143.38, N 819876.31	DATE:	10/09/03
ELEVATION:	12.62 ft (base of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	8:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			2.9		12.0-16.0 ft dark reddish-brown arkosic m-c SAND, saturated.				PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm
16					E.O.B. at 16.0 ft				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

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PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-5	COORDINATES:	E 666110.03, N 819880.97	DATE:	10/09/03
ELEVATION:	13.67 ft (top of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1			3.0		0.5-4.0 ft FILL: med. brown f. SAND, tr. oyster shells, moist.				PID = 0 ppm
									PID = 0 ppm
2									
									PID = 0 ppm
3									
									PID = 0 ppm
4									
			3.0		4.0-8.0 ft. FILL: (same as above) wet at about 7 ft				PID = 0 ppm
5									
									PID = 0 ppm
6									
									PID = 0 ppm
7									
									PID = 0 ppm
8					8.0-8.5 ft reddish-brown SILT, saturated				PID = 200-300 ppm
9					8.5-12.0 ft. Dark grey oil-stained m-c SAND, strong petroleum odor				PID = 300-400 ppm
10									PID = 400-900 ppm
11									PID = 200-300 ppm
12									

NOTES: Evidence of petroleum from 8.0 ft to about 13 ft.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-37-5	COORDINATES: E 666110.03, N 819880.97	DATE: 10/09/03	
ELEVATION: 13.67 ft (top of slab)	GWL: Depth: 7.0 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			2.9		12.0-16.0 ft reddish-brown arkosic m-c SAND, saturated. (no staining or odor)				PID = 2.0 ppm PID = 1.5 ppm PID = 0 ppm PID = 0 ppm
16					E.O.B. at 16.0 ft				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-6b	COORDINATES:	E 666115.56, N 819864.32	DATE:	10/09/03
ELEVATION:	13.54 (grade)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	11:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
				###	0-0.5 ft FILL: med. brown f. SAND, tr. coal ash, tr. gravel, moist				PID = 0 ppm
1				< >	0.5-1.0 ft Concrete slab				
				###	1.0-4.0 ft FILL: m. brown f. SAND and crushed stone up to 1.5 inches, moist.				PID = 0 ppm
2			2.6	###					PID = 0 ppm
3				###					PID = 0 ppm
4				###					PID = 0 ppm
				< >	4.0-4.5 ft Concrete slab				
				:::	4.5-7.8 ft FILL: med. brown f. SAND, tr. c. sand, tr. coal, tr. crushed stone. Wet at 7 feet.				PID = 0 ppm
5				:::					PID = 0 ppm
6			3.3	:::					PID = 0 ppm
7				▽					PID = 0 ppm
8				:::	7.8-8.0 ft Reddish-brown to dark grey (where stained)m-c SAND, saturated, oil staining and strong petroleum odor from 9-12 feet.				PID = 0 ppm
9				:::					PID = 200-500 ppm
10			3.0	:::					PID = 200-400 ppm
11				:::					PID = 150 ppm
12				:::					

NOTES: Second attempt after refusal at location SI-37-B6a

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-7	COORDINATES:	E 666144.44, N 819923.50	DATE:	10/09/03
ELEVATION:	13.58 (top of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	12:25
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1			2.0		0.5-4.0 ft FILL: med. brown f. SAND, tr. oyster shells, tr. c. sand, moist.				PID = 0 ppm
2									PID = 0 ppm
3									PID = 0 ppm
4									PID = 0 ppm
5					4.0-6.0 ft FILL: med. brown f. SAND, tr. oyster shells, tr. gravel, moist.				PID = 0 ppm
6	X		3.2		6.0-8.0 ft reddish-brown f. silty SAND, moist (wet at about 7 feet). Sample **SI-37-B7A** collected at 6.0-6.5 ft.				PID = 0 ppm
7									PID = 0 ppm
8					8.0-9.0 ft reddish-brown SILT, stiff, saturated				PID = 0 ppm
9	X		2.8		9.0-12.0 ft reddish-brown f. SAND, tr. m. sand, saturated. Sample **SI-37-B7B** collected at 9.0-9.5 ft.				PID = 0 ppm
10									PID = 0 ppm
11									PID = 0 ppm; o/w shake & headspace tests negative
12									

NOTES: No evidence of petroleum (all test results negative).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-7	COORDINATES:	E 666144.44, N 819923.50	DATE:	10/09/03
ELEVATION:	13.58 (top of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	12:25
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			2.9		12.0-16.0 ft reddish brown arkosic f-m SAND coarsening with depth, saturated.				PID = 0 ppm
14									PID = 0 ppm
15									PID = 0 ppm
16									PID = 0 ppm
					E.O.B. at 16.0 ft				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-8	COORDINATES:	E 666117.26, N 819910.28	DATE:	10/09/03
ELEVATION:	13.65 (top of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	14:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1			2.0		0.5-4.0 ft FILL: med. brown f. SAND, tr. oyster shells, tr. coal, moist.				PID = 0 ppm
									PID = 0 ppm
2									
									PID = 0 ppm
3									
									PID = 0 ppm
4									
					4.0-8.0 ft FILL: med. brown to reddish-brown f. SAND, tr. oyster shells, tr. coal, moist fro 6.0 to 7.0; wet at 7.0				PID = 0 ppm
5	X				Sample **SI-37-B8A** collected at 5.0 to 5.5 ft.				PID = 0 ppm
6			3.4						PID = 0 ppm
					▽				
7									PID = 0 ppm
8					8.0-10.0 ft dk brown to reddish-brown stratified SILT, stiff, moist (native soil)				PID = 0 ppm
9									PID = 0 ppm
10			3.1		10.0-12.0 ft reddish-brown f. silty SAND, saturated. Sample SI-37-B8B collected at 11.0 to 11.5 ft.				PID = 0 ppm
11	X								PID = 0 ppm; o/w shake & headspace tests negative
12									

NOTES: No evidence of petroleum (all test results negative).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-8	COORDINATES:	E 666117.26, N 819910.28	DATE:	10/09/03
ELEVATION:	13.65 (top of slab)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	14:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			3.2		12.0-14.0 ft dark brown SILT, massive, stiff, saturated.				PID = 0 ppm PID = 0 ppm
14					12.0-16.0 ft reddish brown arkosic f-m SAND, saturated.				PID = 0 ppm PID = 0 ppm
16					E.O.B. at 16.0 ft				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-9	COORDINATES:	E 666101.60, N 819860.45	DATE:	10/10/03
ELEVATION:	12.85 (on grade)	GWL: Depth:	6.5 ft Date/Time:	TIME STARTED:	7:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:10
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					0.0-4.0 ft FILL: med. brown f. SAND, tr. oyster shells, tr. concrete fragments, tr. coal, tr. gravel, moist.				PID = 0 ppm
									PID = 0 ppm
2			3.3						
									PID = 0 ppm
3									
									PID = 0 ppm
4					4.0-7.0 ft FILL: (same as above) wet at 6.5 feet				
									PID = 0 ppm
5									
									PID = 0 ppm
6			3.1						
									PID = 0 ppm
7					7.0-7.3 ft Asphalt layer				
					7.3-7.8 ft med. brown. f. SAND, tr. coal (FILL)				PID = 0 ppm
8					7.8-8.0 ft reddish-brown. f-m-c SAND, saturated				PID = 50-100 ppm
					8.0-12.0 ft reddish-brown. m-c SAND, saturated, oil stained (grey) from 8.2 to 11.0 ft, strong petroleum odor				PID = 600-700 ppm
9									PID = 300-400 ppm
10			2.9						PID = 100-200 ppm
11									PID = 20-30 ppm
12					E.O.B. at 12.0 ft				PID = <25 ppm

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-10	COORDINATES:	E 666086.24, N 819859.58	DATE:	10/10/03
ELEVATION:	12.33 (on grade)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	8:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:40
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1			2.9		0.0-4.0 ft FILL: med. brown f. SAND, w./ 2-inch crushed stone, tr. oyster shells, tr. coal, moist.				PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm
4			2.4		4.0-8.0 ft FILL: (same as above) wet at 6.5 ft.				PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm
8			1.6		8.0-12.0 ft reddish-brown to grey (where stained) m-c SAND, saturated, petroleum odor and staining.				PID = 50-100 ppm PID = 300-400 ppm PID = 100-200 ppm PID = 10-20 ppm PID = 0 ppm
12									

NOTES: E.O.B. at 12.0 ft

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-11	COORDINATES:	E 666057.85, N 819850.03	DATE:	10/10/03
ELEVATION:	12.19 (on grade)	GWL: Depth:	7.0 ft Date/Time:	TIME STARTED:	8:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1			2.9		0.0-4.0 ft FILL: med. brown f. SAND, some crushed stone, tr. coal, moist.				PID = 0 ppm
2									PID = 0 ppm
3									PID = 0 ppm
4									PID = 0 ppm
5			3.1		4.0-7.5 ft FILL: (same as above) wet at about 7 ft.				PID = 0 ppm
6									PID = 0 ppm
7									PID = 0 ppm
8					7.5-8.0 ft reddish-brown f-m-c gravelly SAND, saturated (disturbed)				PID = 0 ppm
9			2.5		8.0-12.0 ft FILL: m. brown to grey (where stained) f-m SAND, tr. gravel, saturated. Oil staining and petroleum odor at 9.0 to 10.5 ft.				PID = 20-50 ppm
10									PID = 100-200 ppm
11									PID = 50-100 ppm
12					E.O.B. at 12.0 ft				PID = 0 ppm

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-37-12	COORDINATES: E 666043.51, N 819845.29	DATE:	10/10/03
ELEVATION: 12.21 ((on grade)	GWL: Depth: 7.0 ft Date/Time:	TIME STARTED:	9:35
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	10:30
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					0.0-1.0 ft FILL: dk. brown gravelly silt, wood (roots), crushed stone, dry.				PID = 0 ppm
2			3.2		1.0-4.0 ft. FILL: med. brown f. SAND, concrete fragments, tr. coal, tr. oyster shells, moist.				PID = 0 ppm
3									PID = 0 ppm
4									PID = 0 ppm
5					4.0-8.0 ft FILL: (same as above) but dark grey in color from 7.0-8.0 ft.				PID = 0 ppm
6			3.2		Note: Dark grey interval resembles oil-stained horizon observed elsewhere, but no sheen or other evidence of oil was found.				PID = 0 ppm
7	X				Samples **SI-37-B12A** and **SI-37-B12B** collected at 6.6-7.0 ft and 7.6-8.0 ft respectively.				PID = 0 ppm; o/w shake & headspace tests negative
8	X								
9			1.2		8.0-12.0 ft reddish-brown f-m-c- SAND, saturated. (no evidence of oil observed)				PID = 0 ppm
10									PID = 0 ppm
11									PID = 0 ppm
12					Refusal at 11.0 ft (cobble of weathered granite pegmatitie in drive shoe)				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-13	COORDINATES:	E 666049.90, N 819873.75	DATE:	10/28/03
ELEVATION:	10.86 (top of sunken slab)	GWL: Depth:	6.5 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1			3.0		0.6-4.0 ft FILL: lt. greenish grey m. SAND, tr. c. SAND, tr. oyster shells, moist.				PID = 0 ppm
									PID = 0 ppm
2									
									PID = 0 ppm
3									
									PID = 0 ppm
4					4.0-6.0 ft FILL: (same as above)				
									PID = 0 ppm
5									
	X				Sample **SI-37-B13A** at 5.5-6.0 ft				PID = 0 ppm
6			3.5		6.0-7.3 ft FILL: reddish-brown to med. brown f. SAND mixed w/ crushed stone to 1.5 inches wide, saturated at 6.5 ft.				PID = 0 ppm
									PID = 0 ppm
7									
	X				6.0-7.3 ft FILL: reddish-brown m SAND, some c. sand, tr. f. sand, saturated. very slight petroleum odor (but o/w test negative) Sample **SI-37-B13B** at 7.5-8.0 ft.				head-space = 0.5 ppm
8									
					8.0-10.0 ft FILL:reddish-brown f-m SAND, saturated.				PID = 0 ppm
9									
									PID = 0 ppm
10			2.6						
					10.0-11.0 ft FILL:reddish-brown f-m SAND, little c. sand, tr. crushed stone, saturated.				PID = 0 ppm
11									
					11.0-12.0 ft greyish brown f. SAND, little silt, tr. clay, fragments of weathered amphibolite rock.				PID = 0 ppm
12									

NOTES: Refusal at 12.0 ft.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-14	COORDINATES:	E 666102.70, N 819846.81	DATE:	10/28/03
ELEVATION:	12.12 (top of slab)	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	9:10
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1					0.5-1.7 ft FILL: crushed stone and med. brown f. silty sand, moist.				PID = 0 ppm
2			2.3		1.7-4.0 ft. reddish brown to med. brown f. SAND, well sorted, stratified, compact, moist (note: could be native soil).				PID = 0 ppm
3									PID = 0 ppm
4					4.0-4.5 ft. (same as above) saturated at 4.5 ft.				PID = 0 ppm
5					4.5-6.0 ft. brown to reddish-brown f. SAND, tr. c. sand, saturated, compact, poorly sorted.				PID = 0 ppm
6			2.7						PID = 0 ppm
7					6.0-7.5 ft reddish-brown f. SAND, well sorted, saturated.				PID = 0 ppm
8					7.5-8.0 ft Black gravelly c. SAND (possible septic septic odor ?)				PID = 0 ppm
9					8.0-12.0 ft. dk grey oil-stained m. SAND, some f. sand, poorly sorted, saturated. Strong petroleum odor.				PID = 10-20 ppm
10			3.2						PID = 200-450 ppm
11									
12									PID = 35-45 ppm

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-14	COORDINATES:	E 666102.70, N 819846.81	DATE:	10/28/03
ELEVATION:	12.12 (top of slab)	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	9:10
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13	X				12.0-13.0 ft. reddish-brown gravelly m-c SAND, saturated, arkosic, poorly sorted. Collected archive sample for reference at 12.0-13.0 ft.				PID = 5-10 ppm
14			3.0		13.0-16.0 ft. reddish-brown f-m SAND, little c. sand, saturated.				PID = 1-5 ppm PID = 0 ppm PID = 0 ppm
16					E.O.B. at 16.0 ft.				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-15	COORDINATES:	E 666101.39, N 819837.99	DATE:	10/28/03
ELEVATION:	11.95 ft (top of slab)	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	10:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	11:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1					0.5-1.5 ft FILL: crushed stone and med. brown silty f. SAND, moist.				PID = 0 ppm
2			2.4		1.5-3.4 ft. m. brown to reddish brown SILT, stratified, stiff, micaceous, moist.				PID = 0 ppm
3									PID = 0 ppm
4					3.4-4.0 ft. reddish brown f. SAND, well sorted, compact, moist.				PID = 0 ppm
5					4.0-6.2 ft. same as above, saturated at 5.0 ft.				PID = 0 ppm
6			3.0						PID = 0 ppm
7					6.2-7.0 ft. reddish-brown silty gravelly f-m-c SAND, saturated (possibley disturbed).				PID = 0 ppm
8	X				7.0-8.0 ft. Black stained gravel grading into gravelly fmc SAND, saturated. Anaerobic (septic-like) odor. Archive sample colected at 7.0-8.0 ft.				PID = 1.5-2.0 ppm
9					8.0-12.0 ft. grey fmc SAND, poorly sorted, saturated, strong petroleum odor.				PID = 500-600 ppm
10			2.5						PID = 150-250 ppm
11									PID = 150-200 ppm
12									PID = 50-60 ppm

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-15	COORDINATES:	E 666101.39, N 819837.99	DATE:	10/28/03
ELEVATION:	11.95 ft (top of slab)	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	10:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	11:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			2.9		12.0-15.0 ft. reddish-brown f-m SAND, coarsening with depth to m-c SAND, tr. gravel, saturated.				PID = 0.5-1.0 ppm PID = 0.5 ppm
15					15.0-16.0 ft. lt. brownish grey f. SAND, well sorted, compact, saturated.				PID = 0.5 ppm
16					E.O.B. at 16.0 ft.				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-16	COORDINATES:	E 666109.14, N 819827.78	DATE:	10/28/03
ELEVATION:	11.85	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	11:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1					0.5-2.0 ft. FILL: m. brown f. SAND and crushed stone, tr. coal.				PID = 0 ppm
2									PID = 0 ppm
			2.0		2.0-4.0 ft. FILL: m. brown f. SAND, tr. c. sand, moist				PID = 0 ppm
3									PID = 0 ppm
4					4.0-7.5 ft. FILL: m. brown silty f. SAND, tr. clay, tr. terra cotta fragments, saturated.				PID = 0 ppm
5									PID = 0 ppm
6			1.8						PID = 0 ppm
7									PID = 0 ppm
					7.5-8.0 ft. dk. grey f-m SAND, tr. silt, stained w./ anaerobic odor.				PID = 1-2 ppm
8					8.0-12.0 ft. lt grey f-m SAND, little c. sand, saturated. Lt. grey stain, sheen and strong petroleum odor.				PID = 50-100 ppm
9									PID = 400-500 ppm
									PID = 100-200 ppm
10			2.5						PID = 50-75 ppm
11									PID = 5-8 ppm
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-16	COORDINATES:	E 666109.14, N 819827.78	DATE:	10/28/03
ELEVATION:	11.85	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	11:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13			3.2		12.0-16.0 ft. reddish-brown f-m SAND, arkosic, saturated.				PID = 0.5 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm
16					E.O.B. at 16.0 ft.				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-37-17	COORDINATES: E 666113.01, N 819816.19	DATE: 10/28/03	
ELEVATION: 12.10 (slab on grade)	GWL: Depth: 5.0 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1			1.5		0.5 - 3.0 ft. FILL crushed stone + m. brown f. sand and concrete fragments.				PID = 0 ppm
2									0 ppm
3									0 ppm
					3.0-4.0 ft. m. brown f. SAND (disturbed), plant rootlets, mottled, moist (note: possible former surface-soil horizon).				0 ppm
4			2.8		4.0-4.5 ft. (same as above)				
5					4.5-6.0 ft. reddish-brown f. SAND, well sorted, moits (saturated at 5.0 ft).				0 ppm
6					6.0-8.0 ft. reddish-brown f. SAND, tr. gravel, saturated (no staining or odor noted).				0 ppm
7									0 ppm
8									0 ppm
9			2.8		8.0-120. ft. light gray (oil stained) f-m SAND, little gravel, saturated, poorly sorted (strong petroleum odor)				400-500 ppm
10									150-200 ppm
11									100-200 ppm
12									10-15 ppm

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-17	COORDINATES:	E 666113.01, N 819816.19	DATE:	10/28/03
ELEVATION:	12.10 (slab on grade)	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					12.0-16.0 ft. reddish-brown arkosic f-m SAND, saturated (no stain or odor)				PID = 0 ppm
14									
15									PID = 0 ppm
16									
17					E.O.B. at 16.0 ft.				
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-17A	COORDINATES:	E 666112.45, N 819816.53	DATE:	10/28/03
ELEVATION:	12.0922	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	13:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1			1.5		0.5 - 3.0 ft. [same as boring SI-37-B17] FILL crushed stone + m. brown f. sand and concrete fragments.				PID = 0 ppm
2									0 ppm
3									0 ppm
					3.0-4.0 ft. [same as boring SI-37-B17] m. brown f. SAND (disturbed), plant rootlets, mottled, moist (note: possible former surface-soil horizon).				0 ppm
4			2.8		4.0-4.5 ft. (same as above)				
5					4.5-6.0 ft. [same as boring SI-37-B17] reddish-brown f. SAND, well sorted, moits (saturated at 5.0 ft).				0 ppm
6					6.0-8.0 ft. [same as boring SI-37-B17] reddish-brown f. SAND, tr. gravel, saturated (no staining or odor noted).				0 ppm
7									0 ppm
8									0 ppm
9	X		2.8		8.0-120. ft. [same as boring SI-37-B17] light gray (oil stained) f-m SAND, little gravel, saturated, poorly sorted (*strong petroleum odor*). **Sample SI-37-B17A-A** collected at 8.5 to 9.0 feet [13:30]				200-300 ppm
10									300-400 ppm
11									50-75 ppm
12									10-20 ppm

NOTES: **E.O.B. at 12.0 feet**

note: Boring located about 1 foot from S-37-B17 (for collecting soil sample).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-37-18	COORDINATES:	E 666060.85, N 819802.83	DATE:	10/28/03
ELEVATION:	11.58	GWL: Depth:	5.0 ft Date/Time:	TIME STARTED:	12:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1					0.5 - 4.0 ft. FILL crushed stone, concrete fragments, gravel, f-m-c SAND, moist.				PID = 0 ppm
2									0 ppm
3									0 ppm
4									0 ppm
5					4.0-8.0 ft. reddish-brown f-m-c- SAND, poorly sorted, tr. gravel, saturated at 5.0 feet. (no oil staining or odor observed.)				0 ppm
6									0 ppm
7									0 ppm
8									0 ppm
9					8.0-10.0 ft. lt. gray to lt. brown f. SAND, tr. gravel, saturated, (no sheen or odor). Refusal at 10.0 feet				0 ppm
10									head-space and o/w shake tests negative
11					**E.O.B. at 10.0 feet (refusal)**				
12									

NOTES:

Note: no evidence of oil - apparenlty "clean" hole.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-37-B-21	COORDINATES:	DATE: 04/26/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/26/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/26/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID
					6" Asphalt				
1					Black cmf GRAVEL, little cmf SAND, trace Silt & Piece of Coal ash, Rock	F			0.0 PPM
2			58		Reddish Brown SILT & mf SAND, little trace clay				
3						F			GWL- 4.0'
					Red mf SAND, little silt trace clay				
4					Red cmf SAND, little Silt, trace mf Gravel clay	SP			0.0 PPM
5									
6			75						
7									
8					Red cmf SAND, little Silt, trace f Gravel	SP			0.0 PPM
9									
10			96						
11					Grayish Brown SILT, little mf Sand, little clay	ML			0.0 PPM
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-37-B-21	COORDINATES:	DATE: 04/26/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/26/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/26/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID
13					Brownish Gray mf SAND, SP little silt, trace clay, trace f Gravel				0.0 ppm
14			58						
15					↓ w/ white material & Rocks				0.0 ppm
16					Refusal at 15.0' due to Rocks				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276690000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39-B-1	COORDINATES:		DATE: 10/10/03
ELEVATION: 13.61'	GWL: Depth:	Date/Time:	DATE STARTED: 10/10/03
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 10/10/03
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Gray & Black cmf SAND, little cmf Gravel & Pieces of Brick, Rock, wood Pieces of Rock	F			0.0
2					trace clay & Pieces of Brick, Rock				0.0
3			83		Bricks				
4	A		80		Black & Brown cmf SAND, little mf Gravel, trace clay and Silt & Pieces of Rock Dark & Gray cmf SAND, little Silt, trace clay & coal ash, concrete etc.	F			0.0 GWL-4.0 0.3 faint odor sheen
5					Refusal at 4.5' due to Concrete.				
6									
7					Note:- Drilling depth(s) from Ground surface				
8									
9									
10									
11									
12									

NOTES: Oil and water Test - (sheen) - Performed

0-1' - concrete slab

1-8' - open

SOIL BORING LOG

amec

PROJECT NUMBER: 276980000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39-B2	COORDINATES:	DATE: 10/10/03	
ELEVATION: 13.79	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Dark Gray cmf SAND, little Silt, little mf Gravel w/ pieces of wood, rock etc	F			PID (ppm) 0.0
1					Dark Gray & Brown cmf SAND, little Silt, trace f Gravel	F			
2			54		Dark Gray cmf SAND, little Silt and clay w/ pieces of rock, asphalt, wood etc	F			
3					Dark Gray & Brown cmf SAND, little mf Gravel, trace clay	F			
4					Dark Gray and Black cmf SAND, little Silt w/ pieces of rock, wood, concrete				GWL - 4.0'
5									
6			29		Black & Gray cmf SAND, little cmf Gravel, trace Silt w/ pieces of Rock, Concrete wood.	F			670 oily
7									
8	A				Greenish Gray mf SAND, little Silt, trace clay & mf Gravel	F			5.0
9					w/ pieces of Rock, Brick, wood etc				0.0
10			67						
11					Light Brown cmf SAND, little mf Gravel, trace clay & Silt	F			0.0
12									

NOTES: Oil/Water Test - (Oil/sheen) Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 26	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39-B2	COORDINATES:	DATE: 10/10/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
13					Brown cmf SAND, little Silt, little mf Gravel & pieces of Rock	F			0.0
14			42		Dark Brown cmf SAND, little mf Gravel, trace silt, trace clay	SP			0.0
15									
16					End of Boring at 16.0'				
17					Note:- Drilling depth(s) from Ground surface				
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39-B3	COORDINATES:	DATE: 10/10/03	
ELEVATION: 13.75	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID ppm)
1					Black cmf SAND, little cmf Gravel, trace Silt w/ Pieces of Rock, wood, concr. etc	F			0.0
2			52						
3					Dark Brown cmf SAND, little mf Gravel trace Silt w/ pieces of Rock	F			0.0
4									Oil: 4.5'
5					Black cmf SAND, little mf Gravel, trace Silt w/ Brick wood, rock etc				
6			73						
7					Black cmf SAND and cmf Gravel, trace silt w/ Brick rock, wood	F			3752 oily
8	A				Black cmf SAND, little mf Silt, little mf Gravel w/ Pieces of Rock	F			3200 oily/ sheen
9									
10			75		Dark Gray mf SAND, little mf Gravel, trace Silt & clay w/ Pieces of White shell	SP			
11									
12					Dark Gray mf SAND, little Silt- trace clay	SM			0.0

NOTES: Oil/H2O Shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39-B3	COORDINATES:	DATE: 10/10/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Dark Gray cmf SAND, little Silt, trace clay, trace f Gravel w/ piece of white Shell	SP			0.0
						SP			
14			67		Brown Organic SILT w/ decomposed wood.	Pt			0.0
15									
16					End of the Boring at 16.0'				
17									
					Note:- Drilling depth (0') from Ground Surface				
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 27609000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39B4W	COORDINATES:	DATE: 10/10/03	
ELEVATION: 13-68	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID (ppm)
1					Concrete slab				
2					O				
3					P				
4					E				
5					N				
6									
7									
8					Ground Surface				
					Dark Gray cmf SAND, little f Gravel, trace Silt w/ pieces of wood, Rock	F			0.0
9									44
10			83		Dark Gray cmf SAND, trace Silt trace clay + f Gravel w/ clay w/ Pieces of Rock				
11									
12					Gray & Brown cmf SAND, little silt + clay w/ Pieces of Rock	F			9999

NOTES: 0-1' - concrete slab
1-4' - open

Screen - #10.5 - 15.5' - 1". scl 40 PVC Auto
0-10.5' - scl 40 PVC Riser

Oil/H2O Shake Test - Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39 B4 W	COORDINATES:	DATE: 10/10/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID CRAM
13					Gray & Yellow cmf SAND, little Silt & clay w/ Pieces of Rock, Gravel wood	F			0.0
14			50		w/ cmf Gravel, trace Silt and clay	F			
15					Grayish Brown cmf SAND little Silt, trace mf Gravel w/ Pieces of white shell	SM/SP			300 Sheen
16					Dark Gray cmf SAND, little Silt, trace clay w/ Pieces of Rock	SM			
17									
18			75		Dark Gray cmf SAND, little Silt, trace f Gravel trace clay	SP			
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-30-B5	COORDINATES:	DATE: 10/10/03	
ELEVATION: 13.91	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
0					Black cmf SAND, little cmf Gravel, trace Silt w/ Pieces of Rock	F			
1					Yellowish Brown cmf SAND little Silt, trace mf Gravel w/ Pieces of rock, wood etc	F			
2			58		Dark Gray & Green SILT & CLAY w/ Pieces of asphalt Rock				00
3					Black cmf SAND, little Silt trace mf Gravel. w/ plastic wood	F			
4					Dark Gray cmf SAND, little Silt, trace mf Gravel w/ Pieces of Rock, concrete	F			
5					w/ mf Gravel				00
6			67		w/ Pieces of Brick				
7					Black & Gray cmf SAND, little Silt, trace clay w/ Pieces of Rock	F			
8	A				Black mf SAND, little Silt trace clay & mf Gravel	F			
9			33		Dark Gray mf SAND, little Silt, trace clay				9999
10					w/ Pieces of wood, concrete Refusal at 10.0'	F			98
11					Note: Drilling depth (0') from Ground Surface.				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39-B-6	COORDINATES:	DATE: 10/10/03	
ELEVATION: 13.56	GWL: Depth: Date/Time:	DATE STARTED: 10/10/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/10/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
0					Dark Gray cmf SAND, little Silt, trace clay			0.0	
1					w/ Pieces of Rock, Brick el-	F			
					Dark Gray & Brown cmf SAND, little Silt				
2			63						
					w/ Pieces of Rock	F		0.0	
3					cmf Gravel & Brick				
					Dark Brown cmf SAND, little	F			
4					Silt. trace mf Gravel w/ Pieces of Rock			0.0	GWL-4.5'
5					Brown cmf SAND, little mf Gravel, trace Silt, trace clay w/ wood, Brick	F		0.0	
6			50		w/ Pieces of wood	F		0.0	
7					Black & Gray cmf SAND, little Silt; trace mf Gravel w/ Pieces of Rock, wood el-	F		0.0	
8					Refusal at 8.0'				
9					Note: Drilling depth(s) from Grand surface				
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SB-39-B7	**COORDINATES:**	**DATE:** 10/13/03	
ELEVATION: 10.94	**GWL:** Depth: Date/Time:	**DATE STARTED:** 10/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 10/13/03	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Gray cmf SAND, little cmf Gravel, trace silt & pieces of Brick, concrete etc	F			PID (ppm) 0.0
2			75		Dark Gray mf SAND, little Silt, trace cmf Gravel, trace clay & pieces of wood, concrete & pieces of Concrete	F			6.6
3					Dark Gray & Black cmf SAND, little Silt, trace clay & pieces of wood, Brick etc	F			0.0
4					Dark Gray cmf SAND, little Silt, trace cmf Gravel, trace clay & pieces of wood, rock	F			0.0
5			42		& concrete				
6					cmf SAND, little silt & clay	F			0.0
7					Refusal at 6.0' due to concrete				
8					Note: Drilling depth (0') from Ground surface.				
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276932000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-39-B8	COORDINATES:	DATE: 10/13/03	
ELEVATION: 12.80	GWL: Depth: Date/Time:	DATE STARTED: 10/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/13/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Dark Gray cmf SAND and cmf GRAVEL, trace silt w pieces of wood, concrete, Brick plastic	F			0.0
2			63		Dark Gray cmf SAND, little silt & clay w pieces of Rock	F			0.0
3					w pieces of Rock				
4					Dark Gray cmf SAND and GRAVEL, little silt w pieces wood, Brick, Rock	F			0.0
5					Dark Grey cmf SAND, little silt and cmf Gravel, trace silt w pieces of Rock, concrete	F			0.0
6			75		Dark Gray cmf SAND, little cmf Gravel, trace silt w pieces of rock, wood	F			
7					w pieces of concrete				0.0
8					Refusal at 8.0'				
9									
10					Note: Drilling depth (0') from Ground surface.				
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B1	COORDINATES:		DATE:	10/10/03
ELEVATION / DATUM:	at grade	GWL: Depth:	6.5 ft Date/Time:	TIME STARTED:	13:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
0-4			2.3	### # ##	0-4.0 ft. FILL reddish-brown to m. brown f. SAND and crushed stone (50%), concrete fragments, tr. coal, dry to moist.		0 0 0 0		
4-6.5			2.0	### # ##	4.0-6.5 ft. FILL m. brown f-m SAND and crushed stone, tr. oyster shells, moist.		0 0 0		
6.5-8	X			### # ##	6.5-8.0 ft. FILL concrete fragments, wood, crushed stone, and oil-stained f. sand, saturated. (oil staining and strong PHC odor)		0		Sample SI-43-B1-A 7.0-8.0 ft.
8-12			1.4	### # ##	8.0-12.0 ft. FILL black fill (crushed stone, wood, sand), saturated. (heavy oil staining).		50-90 100-150		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B1	COORDINATES:		DATE:	10/10/03
ELEVATION / DATUM:	at grade	GWL: Depth: 6.5 ft	Date/Time:	TIME STARTED:	13:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13									
14			0.0	no recovery					
15									
16	X				16.0-20.0 ft. dk olive-gray sandy SILT, tr. plant remains, saturated		0		Sample SI-43-B1-B 16.0-17.0 ft.
17							0		no oil residue observed
18			~2				0		
19							0		
20					E.O.B. at 20.0 feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B2	COORDINATES:	DATE: 10/13/02	
ELEVATION: 6.98'	GWL: Depth: Date/Time:	DATE STARTED: 10/13/02	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/13/02	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Dark Gray mf SAND, little cmf Gravel, trace silt & Pcs of Rock, wood	F			PID (ppm) 0.0
1					Yellowish Brown cmf SAND, little Silt, trace f Gravel & Pieces of Rock, wood, gte.				
2			69		Brownish Yellow cmf SAND, little Silt, trace clay	F			6.0
3					Black cmf SAND, little silt Gravel & coal Ash, concrete, wood Rocks	F			
4					Black cmf SAND, little mf Gravel, trace Silt & clay & Brick, wood.	F			
5									0.0
6			73		Black & Gray cmf SAND little Silt & Pieces of Rock wood coal Ash	F			
7	A				Black & Gray cmf SAND, little Silt, trace clay & Pieces of Rock, coal Ash	F			GWL - 7.0'
8									
9					Black cmf GRAVEL, some Silt & Pieces of Rock, Brick, Coal Ash	F			
10			25						0.0
11					Black cmf GRAVEL, little mf Sand, trace Silt & Pieces of Rock, Coal Ash	F			11-13' - 0.1 ppm
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI43-B2	COORDINATES:		DATE: 10/13/02
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 10/13/02
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 10/13/02
DRILLING METHODS: Geoprob Rig			PAGE: 2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Black cmf SAND, little mf Gravel, trace Silt & clay	SP			PID (ppm) 0.0 H-18" - oily
14			25		Dark Gray cmf SAND, little Silt, trace clay & pieces of wood.	SP			0.0
15	B								
16					End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B3	COORDINATES:	DATE: 10/13/03	
ELEVATION: 7.58'	GWL: Depth: Date/Time:	DATE STARTED: 10/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/13/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					White & Gray Pieces of Concrete, Sand, Gravel, wood Rock. Black Coal Ash (1.0-1.2')	F			0.0
2			25		Brown cmf SAND, little Silt, trace cmf Gravel	F			0.0
3					Dark Gray SILT, trace clay trace cmf Gravel w Pieces of wood, plastic.	F			0.0
4					Black cmf SAND, little mf Gravel, trace silt & clay w Pieces of Rock, wood Coal Ash	F			0.0
5					↓				
6			29		Dark Gray cmf SAND, trace cmf Gravel, trace Silt and clay	F			0.0
7	A								GWL-7.5'
8					Dark Gray & Black cmf SAND, little cmf Gravel trace Silt & clay	F			0.0
9					Dark Gray & Brown cmf SAND, little Silt, trace clay w Piece of Rock	F			0.0
10			75		White & Gray cmf SAND, little Silt, trace clay	F			0.0
11					↓				
12					Black cmf SAND & F GRAVEL little Silt & clay w Piec of Rock, wood etc.	F			0.0 11-12' Silty

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B3	COORDINATES:	DATE: 10/13/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/13/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
13	B				Dark Grey cmf SAND. and f GRAVEL, trace Silt and clay w pieces of Brick Rock etc.	F			0.0 Oily
					w pieces of White shell.	SP			
14			75		Dark Gray CLAY, little silt trace f sand w pieces of White shell	CL			0.0
15					trace f Gravel	SP			
16					End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B4	COORDINATES:	DATE: 10/13/03	
ELEVATION: 7-48'	GWL: Depth: Date/Time:	DATE STARTED: 10/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/13/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark cmf SAND, little Silt, little mf Gravel & pieces of Rock, concrete.	F			0.0
2			38		& pieces of cement/concrete				0.0
3					Dark Gray & Brown cmf SAND, trace Silt & f Gravel &	F			0.0
4					pieces of Rock.				
5					Dark Gray cmf SAND, little Silt, trace cmf Gravel trace Silt & clay & pieces of Concrete, Brick	F			0.0
6			50						
7	A				Dark Gray cmf SAND, little cmf Gravel, trace Silt & Rick Cinder, cement	F			0.0
8					Dark Gray & Brown cmf SAND, little cmf Gravel, trace Silt & clay	F			0.0
9					Black cmf SAND & GRAVEL, little Silt & Rock	F			
10			25		Black & Brown cmf SAND & GRAVEL, little mf Sand, trace clay	F			0.0 sheen
11					& cmf Gravel				0.0 strong odor
12					& Brick, Rocks	F			11-12' - oily

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B4	COORDINATES:	DATE: 10/13/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/13/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13	B1				Black cmf SAND and GRAVEL, little silt & clay w/ pieces of Rock, crsd.	F			11-13' : 6ily 0.0
14					Dark Gray CLAY, little silt trace mf Sand, trace f Gravel	CL			
					Black & Gray cmf SAND				0.0
15					Black & Dark Gray cmf SAND, little f Gravel, trace silt & clay	SP			
16					End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SS-43-B5	COORDINATES:	DATE: 10/13/03	
ELEVATION: 6.10'	GWL: Depth: Date/Time:	DATE STARTED: 10/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/13/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
0					Dark Gray cmf SAND and GRAVEL, little Silt, trace clay w/ Pieces of Rock, wood	F			PID 0.0
1					Dark Gray & Pale Green mf SAND, little Silt, trace mf Gravel				0.0
2			63		w/ Pieces of Rock, wood etc	F			0.0
3					Black COAL ASH w/ Sand Silt, Gravel, Wood, Brick				
4									
5					Yellowish Brown mf SAND, little Silt, trace f Gravel	F			0.0
6			75		Black & Dark Gray cmf SAND, Brownish Yellow cmf SAND, little cmf Gravel, wood				0.0
7					6.6 to 7.0': Piece of wood	F			
8					Black cmf GRAVEL & Sand Coal Ash w/ Piece of Rock, cinder Asphalt ↓				
9					Dark Gray mf SAND, little Silt, trace clay w/ Pieces of Rock	F			0.0
10			67		Black cmf GRAVEL and SAND, little Silt w/ Pieces of Rock, wood etc	F			0.0
11					w/ piece of Rock	F			
12					w/ Piece of Wood				
NOTES: 13			10		Coal Ash & mf Gravel Refusal at 13.0'	F			

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B6	COORDINATES:	DATE: 10/21/03	
ELEVATION: 8.71'	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Brown cmf SAND, little Silt, little cmf Gravel of Pieces of Rock	F			0.0
2			67		Dark Brown cmf SAND, little Silt and Gravel of Pc of Rock	F			0.0
3									
4					Brown & Dark Gray cmf SAND, little Silt & mf Gravel of Brick, Rock	F			0.0
5					Black Coal Ash				
6			90						
7					Black Coal Ash, cinder, wood	F			
8	A				Brown cmf SAND, trace mf Gravel of Silt, clay, Rock concrete	F			0.0
9					of Piece of Brick & wood	F			
10			54						
11					Pale Green cmf SAND little mf Gravel, trace Silt & clay of pieces of Rock	P			0.0 11.0 to 13.0 Oily.
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 (32)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: S1-43-B6	COORDINATES:	DATE: 10/21/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Dark Gray CLAY w fiberglass wood, Rocks	F			11-14' - oily
14					Gray mf SAND, little silt-trace clay				
15					clay/silt bands	SM			
16	B				End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B7 (36)	COORDINATES:	DATE: 10/22/03	
ELEVATION: 7.74'	GWL: Depth: Date/Time:	DATE STARTED: 10/22/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/22/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Asphalt 6"				PID (ppm)
1					↓ Pieces of Rock, concrete wood, gravel	F			0.0
2					Brown cmf SAND, little Silt				
			63		trace mf Gravel & Pieces of	F			0.0
3					Rock				
					Black Coal Ash, cinders &				
4					Pieces of Rock, Brick and	F			0.0
					↓				
			13						
5					Refusal at 5.0'				
6									
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B7	COORDINATES:		DATE:	10/24/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth:	Date/Time:	TIME STARTED:	12:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			3.2		0-0.2 ft asphalt pavement 0.2-3.4 ft. FILL m. brown gravelly f-m-c SAND mixed w./ crushed stone, compact, moist.		0 0 0		
4					3.4-4.0 ft. FILL black coal ash, wood fragments, compact, moist (oily at 3.8-3.9 ft)		1.3		
6			3.1		4.0-7.0 ft. FILL black to dk. brown coal ash, f-m-c SAND, and crushed stone, moist (wet at 6.5 ft)		1-6 0 0		
7					7.0-7.4 ft. *concrete (possible slab) dry*				
8	X				7.4-8.0 ft. FILL black oil saturated f-m-c- SAND & crushed stone, saturated. (viscous tar-like oil)		2-4.5		archive sample 7.6-8.0 ft
10			0.2		8.0-12.0 ft. FILL black, oily f-m-c SAND, some glass and wood fragments, oily sheen, fuel oil odor, liquid, saturated.		1.0-1.2		archive sample 7.5-8.0 ft. poor recovery

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B7	COORDINATES:		DATE:	10/24/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 6.5 ft.	Date/Time:	TIME STARTED:	12:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-13.0 ft. dk gray f-m-c SAND grading into sandy GRAVEL w./ depth, saturated. (slight sheen in upper 0.3 ft of core)		0.8		possibly native material
14			3.6		13.0-16.0 ft. dk gray to black f. SAND, grading into silty f. SAND w./ depth, tr. shells, saturated.		0		
15							0		
16							0		
					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B8	COORDINATES:	DATE:	10/24/03
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 5.5 ft Date/Time:	TIME STARTED:	14:20
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	15:45
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft. Asphalt and crushed stone.				
1					0.6-1.5 ft. FILL crushed stone, and dk. gray f. SAND, piece piece of white sandstone, moist		0		
2					1.5-3.0 ft. FILL dk. gray f-m SAND, tr. shells, moist.		0		
3					3.0-3.4 ft. concrete slab.				
4					3.4-4.0 ft. FILL black coal ash, moist		0		
5					4.0-5.0 ft. FILL (same as above)		0		
					5.0-5.6 ft. FILL olive-gray f. SAND, saturated.		0		
6					5.6-6.1 ft. concrete slab				
7					6.1-8.0 ft. FILL dk gray to black f-m SAND mixed with wood, coincrete fragments, aturated.		0 0		1.5" layer of tar at 8.8 ft.
8									
9					8.0-12.0 ft. FILL black to dk. brown coal ash & f. SAND, tr., silt, saturated.		0 0		
10			2.2				0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B8	COORDINATES:		DATE:	10/24/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 5.5 ft	Date/Time:	TIME STARTED:	14:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:45
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSTRUCTION	REMARKS
13					12.0-13.0 ft. FILL black coal ash mixed w./ oil-stained m-c SAND, saturated.		2-3		oil staining, PHC odor, and light sheen
14			3.0		13.0-16.0 ft. dk gray f-m SAND grading into silty SAND at 15.8 ft, saturated (oil staining from 13.0-13.5 ft.)		0-0.5 0 0		
16					**E.O.B. at 16.0 feet**				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B9	COORDINATES:	DATE: 10/28/03	
ELEVATION: 13.65'	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					8" Concrete Slab				PID (ppm)
1					0				
2									
3					P				
4									
5					E				
6									
7					N				
8					Dark Gray mf SAND, little Silt, trace mf Gravel, trace clay w/ Rock, wood	F			0.0
9					w/ Piece of Rock				GWL 10.0'
10			88		Brownish yellow mf SAND, little Silt, trace of Gravel trace clay	F			0.0
11					Dark Gray mf SAND, little silt, trace clay w/ piece of Rock	F			0.0
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B9	COORDINATES:	DATE: 10/28/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
					w/ pieces of shell				0.0
13					Gray cmf SAND, little f Gravel, trace silt w/ pieces of shell	SP			0.0
14			75		Dark Gray cmf SAND, little f Gravel, trace silt w/ pcs of decomposed wood				0.0
15					Black & Gray cmf SAND, little clay, trace silt	ml/cl			
16					alternate layers of Sand/clay Silt w/ pieces of shell	SP			0.0
17					w/ decomposed wood	ml/cl			
18			58			S			
19					Black & Dark Gray mf SAND, little Silt, trace clay	SP			0.0
20									
21					Black & Dark Gray cmf SAND, little Silt, trace clay, trace f Gravel w/ pieces of decomposed wood	SP			0.0
22			85						
23					Dark Gray mf SAND, some clay and Silt decomposed wood				0.0
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B9	COORDINATES:	DATE: 10/28/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
25					Dark Gray cmf SAND, little mf Gravel, trace Silt & clay & piece of White shell	SP			0.0
26									
27									
28									
29					Dark Gray cmf SAND, little mf Gravel, trace Silt & piece of white shell	SP			0.0
30									
31									
32					Dark Gray CLAY	CL			0.0
					End of Boring at 32.0'				
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B10	COORDINATES:	DATE: 10/28/03	
ELEVATION: 13.70'	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					6" concrete slab				
1					↑				
2					0				
3					P				
4					E				
5					N				
6					↓				
7									
8					Brownish yellow f-m SAND, little m-f Gravel, trace Silt	F			0.0
9					Black & Gray m-f SAND, little Silt & pieces of Rock	F			0.0
10			63		Yellowish Brown c-m SAND, little Silt, trace clay & Pieces of Rock	F			0.0
11					↓				
12					Pieces of Brick, concrete	F			0.0

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B10	COORDINATES:	DATE: 10/28/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Red and yellowish Brown cmf SAND, trace mf Gravel trace clay w/ pieces of Brick, rock etc.	F			0.0
14			88		Gray CLAY, little Silt w/ pieces of shell, clay				
15					Dark Gray cmf SAND, little clay, trace Silt, trace f Gravel w/ decomposed wood	SP			0.0
16									
17					w/ pieces of shell				
18			88						
19									
20					Dark Gray CLAY and SILT, little mf Sand Silt/clay lenses	CL			0.0
21					Black and Dark Gray mf SAND, little Silt trace clay Gray mf SAND, little Silt and clay w/ pieces of shell trace mf Gravel	SP CL			0.0
22			83						
23									
24					w/ f Gravel				0.0

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B10	COORDINATES:	DATE: 10/28/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
25					Dark Gray mf SAND, little Silt & clay, trace mf Gravel				PID (ppm) 0.0
26			83						
27									0.0
28					End of the Boring at 28.0'				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000 (32)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B11	COORDINATES:	DATE: 10/28/03	
ELEVATION: 13.36'	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (ppm))
					8". concrete slab				
1					↑				
					O				
2									
3					P				
4									
5					E				
6									
					N				
7					↓				
8					Black & White cmf SAND, little Silt, little cmf Gravel trace Silt.	F			0.0
9					Coal Ash - 3" by Brick	F			0.0
10			75		Pieces of Rock				
					Dark Brown cmf SAND, little mf Gravel, trace Silt-	F			0.0
11					by pieces of Brick, cinder etc				
12					↓				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B11	COORDINATES:	DATE: 10/28/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID (ppm)
13					Brownish Yellow cmf SAND, and Gravel, trace Silt w pieces of Rock, cinder	F			0.0
14					w Pieces of Rock				0.0
			88						
15					Coal Ash / cinder	F			
16					Pieces of Concrete / Rock				0.0
					Black cmf SAND, little cmf Gravel w Coal Ash, cinder	F			16 to 18.0' Oily
17									
18			96		Gray & BROWN w Pieces of Wood				0.0
19					cmf SAND, little mf Gravel, trace Silt & clay w Pieces of wood / Rock	F			
20					Refusal at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B12	COORDINATES:	DATE: 10/28/03	
ELEVATION: 7.18'	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					4" Asphalt Pale Green & Gray cmf SAND, little cmf Gravel, trace silt w/ Pieces of Rock	F			0.0
2			79						
3					w/ Pieces of Concrete				6.0
4					Black Coal Ash / cinder Gray cmf SAND, little cmf Gravel w/ Rock	F			0.0
5					3" - Coal Ash				
6			67		w/ Pieces of Wood ↓ w/ cmf Gravel, roots, silt	F			6.0
7					↓ Pieces of Rock oily ↓	F			6.6
8									oily from 7.0' to 13.0'
9									
10									black oily
11									
12					Black Gray cmf SAND & GRAVEL, trace clay w/ Rock.	F			0.0

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000 3C	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SJ-43-B12	COORDINATES:	DATE: 10/28/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/28/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/28/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS: PID (ppm)
13					Black cmf SAND, little mf Gravel, trace Silt				0.0 oil ↓ 13.0'
					Dark Gray cmf SAND, trace F Gravel, trace Silt				0.0
14			63		Dark Gray mf SAND, little Silt, trace clay & Pieces of shell & decomp sed wood				0.0
15					↓				
16					End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES: oily material. 7-13.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B13	COORDINATES:	DATE: 10/29/03	
ELEVATION: 7.19'	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Gray & Black cmf SAND, little mf Gravel, trace Silt w Pieces of Rock	F			0.0
2			38		Pale green cmf SAND, little Silt, trace clay w Pieces of Rock cinder.	F			0.0
3									
4					w Coal Ash / cinder.	F			0.0
5									
6			67						
7					Coal Ash	F			
8					Dark Gray cmf SAND, little Silt, trace clay w Pieces of Rock, wood, concrete	F			0.0
9									S @ 14.5' oily
10			42						
11						F			
12					w Red Brick				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B13	COORDINATES:	DATE: 10/29/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13									0.0 oily.
14			38		Black & Gray cmf SAND, little cmf Gravel, trace silt & piece of Rock				0.0
15									
16					Gray CLAY, trace of Sand				0.0
					End of Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276690000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B14	COORDINATES:	DATE: 10/29/03	
ELEVATION: 7.17'	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Black & Dark Gray cmf SAND, little Silt, trace fg Pieces of Rock, wood & Yellow cmf SAND w/ Piece of Rock, Gravel, Silt	F			6.0
2			67						0.0
3					Pale green SAND w/ Piece & White shell	F			0.0
4					Pale green cmf SAND, little Silt, trace mf Gravel w/ Rock, Brick etc	F			0.0
5									
6			75		w/ Coal Ash & Cinder	F			
7	A								
8					Pieces of concrete Dark Gray cmf SAND, trace cmf Gravel, trace Silt	F			0.0
9					w/ Piece of Rock	F			
10			25						
11					w/ Pieces of Rock	F			
12					Red cmf SAND, some mf Gravel	F			0.0

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 27682000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B15	COORDINATES:	DATE: 10/29/03	
ELEVATION: 7.94'	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					Asphalt Pieces of Concrete				0.0
1					Yellow and Green cmf SAND, little cmf Gravel trace Silt	f			
2			60						
3					Lg Pieces of Concrete Black Coal Ash				
4					Yellowish Brown clay & Silt, trace f Gravel	f			0.0
5					Lg Pieces of Brick & f Gravel				
6			67		Dark Gray cmf SAND, little Silt & clay & pieces of shell				0.0
7					Yellowish Gray cmf SAND, little Silt, trace f Gravel	p			0.0
8					Dark Gray clay & sand, Brick				
9					Gray cmf SAND, little cmf Gravel, trace Silt & Pieces of Rock shell	f			0.0
10			85		Gray CLAY				
11					Dark Gray cmf SAND, little cmf Gravel, trace Silt/clay w/shell	p			0.0
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI 43 B15	COORDINATES:	DATE: 10/29/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
13					Dark Gray cmf SAND & Gravel, little silt & decay wood	SP/ pt			0.0
14			65		Dark Gray cmf SAND, little silt, trace f Gravel & brick & shell	SP			0.0 Alternate layer Peat/clay/sand
15					Dark Gray CLAY, little silt	CL			0.0
16					Black mf SAND, little silt, trace clay	SM/SP			
					End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B16	COORDINATES:	DATE: 10/29/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID
1					Brown cmf SAND, little cmf Gravel	F			0.0 PPM
					piece of concrete				
					ly pieces of coal				
2			75		Brownish Gray cmf SAND	F			
3					little Silt, trace cmf Gravel				0.0 PPM
					ly pieces of Brick				
					Pale green mf SAND				
4					Brown cmf SAND, little Silt ly pieces of Rock	F			
5					ly coal Ash				
			79						0.0 PPM
6					ly concrete & Brick.	F			
7					ly pieces of wood Rock.				
8			---						
					No Recovery	F			
9			NR						
10									Sheen
			---:		Brownish yellow cmf SAND.	F			0.0 PPM
11			25		little cmf Gravel, little Silt, trace clay				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-16	COORDINATES:	DATE: 10/29/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13			NR		NO Recovery				
14					Brownish Yellow Cmf SAND, little cmf Gravel, Trace Silt & pieces of Rock	F			13'-14' - oily. 17 ppm
15			55		& Bricks. Wood				
16					Gray cmf SAND, little Silt, little clay & pieces of wood (decomposed)	SM/CL			
17									
18			73			SM CL			0.0 ppm
19									
20					End of the Boring at 20.0' feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-17	COORDINATES:	DATE: 10/29/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID
0					Dark Brown cmf SAND, little cmf Gravel, trace Silt & Pieces of Roak	F			0.0 ppm
1					& by Roaks				
2			63		Dark Gray mf SAND, little Silt, trace mf Gravel	F			0.0 ppm
3					& coal ash, cinder				
4					Dark Gray mf SAND, little Silt, trace mf Gravel	F			0.0 ppm
5					& coal ash, cinder				
6			67		Brown and yellow cmf SAND, little cmf Gravel, trace Silt & Piece of Roak	F			0.0 ppm
7									
8									Gwl. 8.5'
9			HR		No Recovery	F			
10			---		Black cmf SAND, little cmf Gravel, trace Silt & clay & piece of Roak.	F			0.0 ppm
11			25						
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-17	COORDINATES:	DATE: 10/29/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID
13					Black cmf SAND, little cmf Gravel, trace Silt & clay w pieces of Rock Brick	F			52 ppm
14			37						
15						F			Oily at 15.5
16					Gray CLAY (?)	CL			
17					No Recovery				
18									Oily at 17.0'
19			42		Gray CLAY, little mf Silt, trace f Sand (alternate bands of silt/clay)	CL			
20									0.0 ppm
21									
22			67		Gray CLAY, little mf SAND trace Silt	CL			0.0 ppm
23									
24									

NOTES: End of the Boring at 24.0' Feet

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B16	COORDINATES:	DATE: 10/29/03	
ELEVATION: 8.33'	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID ppm)
1					Brown cmf SAND, little cmf Gravel, trace silt & Piece of Rock & Piece of Concrete & cmf Sand & Coal Ash & Silt, & Brick.	F			0.0
2			75						
3									
4					Pale Green mf SAND & Pc Rock	F			
5					Brown cmf SAND, little Silt & Piece of Rock	F			0.0
6			79		& Coal Ash & Coal Ash / cinder & Brick				0.0
7					& Piece of wood, Rock etc	F			0.0
8					No Recov				
9									
10			25		Dark Gray cmf SAND, little Silt, trace clay & Piece of Rock, wood	F			0.0 sheen
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276990000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B16	COORDINATES:	DATE: 10/29/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
13					No Recov ↓ Dark Gray cmf SAND, little mf Gravel, trace Silt of Rock	TF			13.0' silty 100
14					Dark Gray cmf SAND, little Silt, trace mf Gravel. trace Silt				
15					Yellow cm SAND, little silt of Rock, Brick, cord of				
16					Gray cmf SAND	SM/CL			0.0
17					Gray cmf SAND, little Silt little clay of piece of cord				
18					↓				
19						SM/CL			0.0
20					End of Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 3c	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B19	COORDINATES:	DATE: 10/29/03	
ELEVATION: 8.49'	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Brown cmf SAND, little clay, trace cmf Gravel trace silt cy Pieces of Rock cy Pieces of Rock.	F			0.0
2			63		Dark Gray mf+ SAND, little Silt, trace mf Gravel	F			0.0
3					Coal Ash / cinder				
4									
5									
6			67		Brown & yellow cmf SAND, little clay, little cy Gravel trace silt cy Pieces of Rock	F			0.0
7									
8									
9					No Recovery				
10			25						
11					Black cmf SAND, little cmf Gravel. trace silt/ clay cy Pieces of Rock	F			0.0
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B19	COORDINATES:	DATE: 10/29/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/29/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black cmf SAND, little cmf Gravel, trace silt/clay w/ Pieces of Rock, Brick	F			PID (ppm) 0.0
14			38		Dark Gray mf SAND, trace cmf Gravel, trace silt & Root, Brick	F			0.0
15									
16					No Recovery				15.5' Oily
17									
18			21			F			Oily
19									
20					Dark Gray CLAY, trace Silt trace f Sand	CL			0.0
21					Black & Gray CLAY, little Silt, trace mf Gravel Cobbles & silt/clay)	CL			0.0
22			67						
23					Gray CLAY / sand				
24									

NOTES: End of the Boring at 24.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B18	COORDINATES:	DATE:	10/20/03
ELEVATION / DATUM: top of soil 7.5 ft below slab	GWL: Depth: 4 ft Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	10:20
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-1.5 ft. FILL m. brown f. SAND, tr. clay, w./ 50% crushed stone, moist (wet immediate below surface)		0		
2			2.8		1.5-3.0 ft. FILL black coal ash, f. sand, and crushed stone, moist.		0		
3							0		
4					3.0-4.0 ft. FILL rusty brown brick fragments, concrete, gravel, & f. sand, moist.		0		
5			1.2		4.0-7.8 ft. FILL (same as above) saturated		0		
6							0		
7							0		
8					7.8-8.0 ft. FILL dk gray f-m SAND w./ 50% rock fragments, saturated.		0		
9			2.0		8.0-12.0 ft. FILL lt gray to black silty CLAY muck mixed with concrete fragments & crushed stone, saturated (anaerobic odor)		0		
10							0		
11							0		piece of sheet metal on drive shoe
12									

NOTES: **E.O.B. at 12.0 ft. (refusal)**

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B18A	COORDINATES:	DATE:	10/31/03
ELEVATION / DATUM: *top of soil 8.0 ft below slab*	GWL: Depth: 3.5 ft. Date/Time:	TIME STARTED:	7:10
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	7:47
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-1.5 ft. FILL m. to lt. brown f-m-c SAND and with concrete & crushed stone, tr. clay, moist.		0		
2			3.3		1.5-3.0 ft. FILL black coal ashmixed with f-m-c SAND and gravel, moist.		0		
3							0		
4					3.0-4.0 ft. FILL lt. gray f-m-c SAND w./ concrete & crushed stone, moist (saturated at 3.5 ft.),		0		
5			1.4		4.0-8.0 ft. FILL lt. gray f-m SAND mixed w./ concrete and brick fragments, tr. clay, loose, saturated.		0		
6							0		
7							0		
8							0		
9			1.8		8.0-11.0 ft. FILL black silty muck with concrete fragments and f. sand, saturated (sheet metal in tip of sampler).		0		
10							0		
11					**E.O.B. at 11.0 feet (refusal)**				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B18B	COORDINATES:	DATE:	10/31/03
ELEVATION / DATUM: top of soil 8.0 ft below slab	GWL: Depth: 4.5 ft Date/Time:	TIME STARTED:	8:05
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:25
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			1.5		0-4.0 ft. FILL brwon to black f-m-c SAND, crushed stone and coal ash, moist		0		
2							0		
3							0		
4							0		
5			2.4		4.0-8.0 ft. FILL FILL (same as above) saturated at 4.5 ft.		0		
6							0		
7							0		
8							0		
9			2.0		8.0-12.0 ft. FILL black silty organic muck with concrete, gravel, saturated. (straw-like upholsery material in tip of sampler).		0		h/s = 1.3 ppm
10							0		oily sheen but no PHC odor
11							0		
12							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B18B	COORDINATES:		DATE:	10/31/03
ELEVATION / DATUM:	top of soil 8.0 ft below slab	GWL: Depth: 4.5 ft	Date/Time:	TIME STARTED:	8:05
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:25
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-16.0 ft. FILL black silty organic muck with concrete, metal fragments, saturated. (slight oily sheen but no appreciable odor).		0.3		h/s test = 8 ppm
14	X		1.3				0.4		poor recovery Sample SI-43-B18B-A 13.4-14.0 ft. (8:50)
15							3-4		
16							3-4		
17					16.0-20.0 ft. dk gray to black silty f. SAND, tr. shells, saturated (hydraulic fill)				h/s test = 8 ppm
18	X		1.5				2-3		Sample SI-43-B18B-B 17.0-18.0 ft. (9:15) no sheen or other evidence of oil.
19									
20							0		
21					**E.O.B. at 20.0 feet (obstruction)**				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B19	COORDINATES:	DATE: 10/30/03	
ELEVATION / DATUM: at grade (millings)	GWL: Depth: 4 ft. Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	11:30
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			3.0	###	0-3.0 ft. FILL m. brow f. SAND w./ 50% crushed stone, moist.		0		
2							0		
3							0		
					3.0-4.0 ft. FILL m. brown f. SAND, tr. shells, moist.		0		
4			2.9	###	4.0-6.0 ft. FILL m. brown f. SAND & crushed stone, saturated.		0		
5							0		
6					6.0-6.4 ft. concrete (dry)		0		
				###	6.4-8.0 ft. FILL black coal ash & rusty brown gravelly f. SAND, tr. wood, saturated.				
7							0		
8			2.1	###	16.0-20.0 ft. FILL crushed stone & concrete w./ some gravel and f. sand, lose, saturated.		0		no sheen on water in sampler
9							0		
10							0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B19	COORDINATES:	DATE: 10/30/03	
ELEVATION / DATUM: at grade (millings)	GWL: Depth: 4 ft. Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	11:30
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	X		2.0	###	12.0-16.0 ft. FILL >75% wood, concrete fragments & gravel, plus f-m-c SAND, saturated.		0		h/s = 1.5 ppm Sample SI-43-B19-A1 & Dup. at 12.0-13.0 ft
14							0		wood blocks from possible former floor.
15							0		slight creosote odor to wood
16							0		
17			2.0		16.0-20.0 ft. FILL black f. silty SAND w./ ~50% concrete fragments, and gravel, saturated.		0		
18							0		
19							0		
20							0		
21			~2		20.0-23.0 ft. FILL lt. brownish-gray clayey SILT, loose, w./ ~50% concrete fragments, saturated.		0		
22							0		
23					E.O.B. at 23.0 feet (refusal)				
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B20	COORDINATES:		DATE:	10/30/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 5 ft	Date/Time:	TIME STARTED:	11:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	12:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 concrete slab		0		
1					0.6-4.0 ft. FILL crushed stone, concrete fragments, w./ some f-m-c sand, tr. coal ash, moist		0		
2							0		
3							0		
4									
5							0		
6			3.1		6.0-8.0 ft. FILL black to rusty brown coal ash and concrete fragements, tr. f-m-c sand, mopist (saturated at 5.0 ft.)		0		
7							0		
8					8.0-9.0 ft. FILL dk gray f-m-c SAND and 50% concrete & gravel, satutated		0		
9					9.0-12.0 ft. FILL crushed brick throughout, saturated.		0		
10			1.9				0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B20	COORDINATES:		DATE:	10/30/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 5 ft	Date/Time:	TIME STARTED:	11:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	12:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	X		~2	###	12.0-16.0 ft. FILL black silty f. SAND, some clay, little gravel, coal ash, and pieces of cloth, saturated.		5-10		h/s = 50-70 ppm Sample SI-43-B20-A at 12.0-13.0 ft faint solvent or PHC odor, but atypical of site (no sheen)
16			~2	###	16.0-20.0 ft. FILL crushed brick, gravel, crushed stone, and black f-m-c SAND, loose, saturated		0 0 0 0		
20					**E.O.B. at 00.0 feet (refusal)**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B21	COORDINATES:	DATE:	10/30/03
ELEVATION / DATUM: slab on grade	GWL: Depth: 7 ft Date/Time:	TIME STARTED:	12:45
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 concrete slab				
1					0.6-4.0 ft. FILL m. brown to dk. gray crushed stone and f-m-c SAND, compact, moist.		0		
2			3.2				0		
3							0		
4					4.0-6.0 ft. FILL (same as above)		0		
5							0		
6			3.0		6.2-8.0 ft. FILL coal ash, concrete, & crushed stone, w./ f-m-c sand, moist (saturated at 7.0 ft).		0		
7							0		
8					8.0-10.0 ft. FILL brown to dk. gray silty f-m-c SAND, tr. clay, w./ concrete fragments, saturated		0		
9							0		
10			2.3		10.0-12.0 ft. FILL black silty f. SAND, massive pieces of wood (pilings?), saturated		0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B21	COORDINATES:		DATE:	10/30/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 7 ft	Date/Time:	TIME STARTED:	12:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.0	###	12.0-15.5 ft. FILL black crushed stone, silty clay, and f. sand, saturated.		5-15		faint solvent or PHC odor
14									
15							5-8		
	X			###	15.5-16.0 ft. FILL blackmuck w./ layers of safety glass, plastic, & cloth, saturated.		0		Archive sample 15.4-16.0 ft
16				###	16.0-17.5 ft. FILL dk. gray f. SAND & concrete fragmnents, saturated.		0		
17							0		
18			3.0	:::	17.5-19.5 ft. FILL dk gray f. SAND, tr. shells, saturated. (rock fragments in drive shoe)		0		
19							0		
				≡	19.5-20.0 ft. FILL dk. gray CLAY, plastic, saturated.		0		
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B22A	COORDINATES:	DATE: 10/30/03	
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 5 ft Date/Time:	TIME STARTED: 14:10	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. Asphalt & crushed stone				
1					0.5-3.5 ft. FILL m. brown f. SAND, tr. shells, (hydraulic fill), moist		0		
							0		
2			3.0						
							0		
3									
							0		
					3.5-3.7 ft concrete				
4					3.7-4.0 ft. FILL m. brown f. SAND, compact, moist.		0		
5					4.0-5.0 ft. FILL (same as above) saturated 5.0-6.5 ft. FILL black gravelly textured coal ash, saturated.		0		
6			3.2				0		
					6.5-7.0 ft. FILL m. brown silty f. SAND, tr. clay, compact, saturated				
7					7.0-7.5 ft. wood block (end grain), saturated.		0		
8					7.5-8.0 ft. FILLblack coal ash and brick fragments, sat.				
9					8.0-12.0 ft. FILL black f. SAND, bricks, concrete, gravel, loose, saturated.		0		
							0		
10			2.6						
							0		
11									
							0		
12									

NOTES:

Refusal in B22 at 10'; this is a new hole.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B22A	COORDINATES:	DATE: 10/30/03	
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 5 ft Date/Time:	TIME STARTED: 14:10	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	X		2.0	###	12.0-16.0 ft. FILL black silty muck w./ concrete fragments & crushed stone, saturated.		0		Sample SI-43-B22A-A 12.0-13.0 ft.
14				###			0		very slight sheen (may not by PHC related)
15				###			0		
16				###			0		
17					dk. gray silty CLAY, plastic, saturated.		0		
18			3.7		17.5-20.0 ft. dk. gray f. SAND, tr. gravel, saturated (anaerobic odor)		1		
19							0		
20							0		
21					**E.O.B. at 20.0 feet**				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-43-B23	COORDINATES:	DATE:	10/31/03
ELEVATION / DATUM: top of soil 7.5 ft below slab	GWL: Depth: 4 ft Date/Time:	TIME STARTED:	9:20
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	10:06
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. lt brown f. SAND, tr. gravel, moist.				
1			2.2		0.5-2.0 ft. FILL black coal ash, moist.		0		
2					2.0-4.0 ft. FILL concrete fragments and brick, tr. lt brown sand, moist.		0		
3							0		
4					4.0-4.5 ft. (same as above) saturated		0		
5			3.0		4.5-6.8 ft. lt. brown to gray f-m SAND, little shells, saturated (hydraulic fill)		0		
6							0		
7					6.8-8.0 ft. dk gray sandy CLAY, stiff, saturated.		0		
8			3.3		8.0-12.0 ft. lt. gray clayey SAND interlayered w./ sandy CLAY, tr. shells, tr. plant remains, plastic, saturated.		0		
9							0		
10							0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-43-B23	COORDINATES:		DATE:	10/31/03
ELEVATION / DATUM:	top of soil 7.5 ft below slab	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	9:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:06
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-13.0 ft. (same as above)		0		
14	X		2.8		13.0-14.0 ft. black f. SAND, tr. clay, saturated (anaerobic odor but no sheen; o/w & h/s negative)		0		Sample SI-43-B23-A 13.0-14.0 ft.
15					14.0-16.0 ft dk gray sandy CLAY, stiff, saturated, compact.		0		
16							0		
					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

"Clean " hole with no evidence of petroleum

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-24	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Black cmf SAND, little clay, trace cmf Gravel by pieces of Rock, wood.	F			0.0 PPM
2			41		Black & Brown cmf SAND, trace mf Gravel. trace silt by pieces of Rock wood, cinder.	F			
3									
4					Black cmf SAND, little silt. trace clay, trace mf Gravel by pieces of Rock.	F			0.0 PPM
5									
6			41		Black & Orange cmf SAND, little mf Gravel. trace silt. by pieces of Rock	F			0.5 PPM
7									
8					Gray CLAY, little cmf Sand, trace mf Gravel by pieces of Rock.	F			
9									
10			58						
11						F			Sheen.
12					by pieces of glass, Rock.				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-24	COORDINATES:	DATE: 04/23/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/23/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/23/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2.	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Gray cmf SAND, little Silt, trace mf Gravel by pieces of shell (white)	SP			0.0 PPM
14			33		w/ Silt and clay				
15									
16					Pieces of decomposed wood Dark Gray cmf SAND, trace Silt, trace clay by pieces of white shell				
17									0.0 PPM
18			89		Silt-				
19					Silty SAND				
20					Gray mf SAND and SILT, little mf Gravel trace clay.	SP / SM			
21									0.0 PPM
22			87						
23									
24									

NOTES: End of the Boring at 24.0' feet

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-25	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Light Brown cmf SAND, little Silt, little f Gravel. w/ pieces of Rock	F			0.0 ppm
2			50						
3					w/ Coal ash, cinder asphalt				
4					Black and light Brown cmf SAND, little mf	F			
5					Gravel, little Silt, trace clay w/ pieces of wood Rock				1 ppm
6			75						
					↳ woody Rock				sheen
7					Dark Gray cmf SAND, little Silt, trace clay trace f Gravel				
8					light Brown cmf SAND, little mf Gravel, trace	F			
9					Silt w/ pieces of Rock wood, coal ash				
10			62						0.8 ppm
11									sheen
12					↳ pieces of wood				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-25	COORDINATES:	DATE: 04/27/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/27/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/27/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Dark Gray cmf SAND, little Silt, trace clay w pieces of decomposed wood.	SM			
14			83						0.6 ppm
15									
16					End of the Boring at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: S1-43-B-26	COORDINATES:		DATE: 04/26/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 04/26/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 04/26/04
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Dark Gray cmf SAND, little Silt, trace mf Gravel by pieces of Rock, Wood glass	F			0.0 PPM
2									
3			75		Black pieces of Coal ash				
4					Green cmf SAND, little Silt, trace clay by pieces of Rock	F			0.0 PPM
5					Black cmf SAND and GRAVEL, little Silt by pieces of Rock, cinder				
6			73						
7					light Green cmf SAND, little Silt and clay, trace cmf Gravel by pieces of Wood, Brick	F			2 PPM
8									
9					Black and Gray cmf SAND and GRAVEL, little Silt- trace clay				9-12' - oily
10			83		by pieces of Rock, wood Brick	F			2 PPM
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-26	**COORDINATES:**	**DATE:** 04/26/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/26/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/26/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Black and Gray cmf SAND, little cmf Gravel trace Silt & Pieces of Rock F glass, wood				
14			65		Gray mf SAND, little Silt, trace clay & pieces of white shell	SP			to PPby
15									
16					End of the Boring at 16.0				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-27	COORDINATES:	DATE: 04/26/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/26/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/26/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Black and Gray cmf SAND, little cmf Gravel trace Silt w/ piece of Rock, wood, cinder coal ash	F			0.0 PPM
2			50						
3									
4					light Green cmf SAND, little mf Gravel, trace Silt w/ pieces of Rock	F			0.0 PPM
5									
6			75		Brown cmf SAND, little cmf Gravel, trace Silt w/ cinder, Rock	F			0.0 PPM
7									
8					Black cmf SAND, little Silt, trace f Gravel w/ Pieces of Rock	F			0.0 PPM
9									
10			63		Brown cmf SAND, little Silt, trace clay w/ Pieces of Rock	F			2.0 PPM
11					piece of Brick				11.5 - 12.0' oil
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: S1-43-B27	COORDINATES:	DATE: 04/26/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/26/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/26/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Black and Gray cmf GRAVEL/ SAND, trace silt trace clay by piece of white shell, Rock, Brick	F			
14			38						0.0 PPM
15									
16					Light Brown SILT, little cmf Sand, trace clay	F			
17					Black cmf SAND, little Silt by piece of Rock metal				0.0 PPM
18			21						
19									
20					Refusal at 20.0' feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-28	COORDINATES:	DATE: 04/26/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/26/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/26/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Brown and Gray cmf SAND, little cmf Gravel, trace Silt w/ Pieces of wood Rock, shell, glass	F			0.0 PPM
2			54						
3									
4									
5					Light Green cmf SAND, little Silt, trace clay w/ Pieces of Rock, shell	F			0.0 PPM
6			67		Black cmf SAND, little Silt, w/ Pieces of Rock				
7						F			
8					Pieces of Wood (8-9')				0.0 PPM
9					Brown SILT, some f Sand, trace clay				
10			56		Light Brown cmf SAND, trace silt/clay w/ Pieces of Rock	F			
11					Black and Gray cmf SAND, little clay, little cmf Gravel w/ Pieces of Rock				1 PPM
12									oily

NOTES: Hole moved two times

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-43-B-28	COORDINATES:	DATE: 04/26/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/26/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/26/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Brown cmf SAND, little Silt, trace clay by Piece of Rock, wood.	F			8 PPM Oily
14			8		by Piece of wood.				
15									
16					Black and Brown cmf GRAVEL and SAND, little Silt by piece of wood, Rock, Bricks	F			0.0 PPM
17									
18			21						
19									
20					Gray cmf SAND/GRAVEL little Silt/clay by piece of Rock	F/SP			0.0 PPM
21									
22			37						
23									
24									

NOTES: Refusal at 24.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 SC	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-45-B-1	COORDINATES:	DATE: 10/08/03	
ELEVATION: 11.09'	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
					8" concrete slab				0.0
1					Gravel.				
					Dark Gray SILT & CLAY,	F			0.0
2			54		some cmf Sand & Pieces of Rock, wood, concrete				
3					Dark Gray SILT, some f Sand & Pieces of Rock grass, wood, glass, Brick	F			0.0
4									
5					Gray cmf SAND, little Silt, trace clay & Pieces of Brick.	F			
6			100		Dark Gray SILT & f Sand, trace mf Gravel & Pieces of Rock.	F			0.0
7					coarse rock, concrete				
					cinder				GWL 8.0
8	A				Dark Gray mf SAND,	F			
9					little Silt, trace clay & Pieces of wood, Rock				0.0
10			67						
11					Dark Gray mf SAND, little Silt, trace clay & Pieces of wood, Rock,	F			
12									0.0

NOTES: Oil/H_2O Shake Test. Performed

Temporary well Installed.

5-15' - PVC screen 0.010 slot
0.5 - PVC Sch 40 Riser
16-3 - Sand pack
0.3 - Bentonite

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-45-131	COORDINATES:	DATE: 10/08/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Dark Gray cmf SAND, little Silt, trace clay, trace mf Gravel & Pieces of wood				0.0
14			63						
15									
16					End of Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-45-B2	COORDINATES:		DATE:	10/08/03
ELEVATION / DATUM:	at grade	GWL: Depth: 10 ft	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			2.2		0-4.0 ft. FILL dk brown to reddish-brown sandy SILT, tr. crushed stone, moist.		0		
2							0		
3							0		
4							0		
5			4.0		4.0-7.8 ft. FILL reddish-brown sandy SILT, moist.		0		
6							0		
7							0		
8					7.8-8.0 ft. FILL reddish-brown f. SAND, tr. m. sand, moist.		0		
9					8.0-9.5 ft. FILL (same as above)		0		
10			~3		9.5-10.0 ft. FILL dk. brown sandy SILT, moist				groundwater at 10 ft.
11	X				10.0-12.0 ft. lt brown to gray m-c SAND, saturated.		0		Sample SI-45-B2-A at 10.0-10.4 ft.
12							0		h/s & o/w tests negative

NOTES:

E.O.B. at 12.0 ft

No evidence of petroleum observed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-46-B1	COORDINATES:	DATE:	10/08/03
ELEVATION / DATUM:	GWL: Depth: ~6 ft Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	10:00
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			1.7	###	0-4.0 ft. FILL 1-inch crushed stone and brown silty sand, moist.		0		
2									
3							0		
4									
5			1.6	###	4.0-6.0 ft. FILL (same as above)		0		Sample SI-46-B1-A 5.6-6.0 ft
6	X								
7				:::	6.0-8.0 ft. FILL m. brown f-m SAND, tr. shells, saturated (hydraulic fill).		0		
8									
9			2.0	:::	8.0-12.0 ft. (same as above)		0		
10							0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-46-B1	COORDINATES:		DATE:	10/08/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: ~6 ft	Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.5		12.0-16.0 ft. FILL dk gray (gleyed0 f. SAND, tr. shells, tr. brick fragments, saturated.		0 0 0 0		bricks
16					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-46-B2	COORDINATES:		DATE:	10/08/03
ELEVATION / DATUM:		GWL: Depth:	Date/Time:	TIME STARTED:	10:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:35
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			0.6		0-4.0 ft. FILL crushed stone and m. brown f-m SAND, moist.		0		
2									
3							0		
4									
5			0.5 over 2'		4.0-6.0 ft. FILL (same as above)		0		Sample SI-46-B2-A 5.6-6.0 ft
6	☒				concrete slab at 6.0 ft.				
					E.O.B. at 6.0 feet				
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B3 (36)	COORDINATES:	DATE: 10/08/03	
ELEVATION: 13.47'	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Dark Gray and yellowish Brown cmf SAND, trace Silt, trace cmf Gravel	F			PID (ppm) 0.0
2			25		Brownish yellow cmf SAND, trace mf Gravel & Pieces of Brick, wood, Rock	F			0.0
3									
4					Dark Brown cmf SAND, little mf Gravel, trace Silt & Pieces of Brick cinder	F			0.0
5			50		& Pieces of wood (5-5.5')				GSL 6.0
6	A				Dark Brown & Gray cmf SAND little Silt, Rock cobble	F			0.0
7					End of the Boring at (Refusal) 6.5'				
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 SC	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-4	COORDINATES:	DATE: 10/08/03	
ELEVATION: 13.50'	GWL: Depth: Date/Time:	DATE STARTED: 10/08/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/08/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID (ppm)
1					Dark Gray cmf SAND, little Silt, little mf Gravel w/ pieces of Rock, wood Concrete				0.0
2			58		w/ wood				
					w/ Rock				
3					Brown cmf SAND, little Silt, trace f Gravel				0.0
4									
5					Dark Gray and Brown cmf SAND, little cmf Gravel				
			42						0.0
6	A				w/ pieces of concrete, metal Debris				
7					Refusal at 6.5'				
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-46-B5	COORDINATES:		DATE:	10/06/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 6 ft	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:05
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.8 ft. asphalt & crushed stone		0		
1					0.8-2.8 ft. FILL lt brown to olive gray f. SAND, tr. shells, tr. gravel, moist		0		
2			2.8				0		
3					2.8-3.9 ft. FILL dk. gray sandy SILT, moist		0		
4					FILL 3.9-4.0 ft. concrete fragments				
					4.0-6.0 ft. FILL dk. gray gravelly, f. SAND, tr. coal ash, tr. glass, moist		0		
5	X						0		Sample SI-1-B5-A-1 & Duplicate at 4.8-6.0 ft.
6			3.5		6.0-8.0 ft. solid mass of wood, gray, saturated.		0		
7							0		
8					8.0-11.5 ft. dk. gray clayey f. SAND, saturated.		0		
9							0		
10			~3.5				0		
11							0		
12					11.5-12.0 ft. dk brown PEAT, some f-m sand, saturated.				

NOTES:

Note: hit refusal (wood at 6") at original SI-1-B5 location; This hole offset 8" to SW.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-46-B5	COORDINATES:	DATE:	10/06/03
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 6 ft Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:05
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			~3.5		12.0-15.5 ft. dark brown PEAT, stiff, moist, w./ well preserved roots and leaves.		0		
14							0		
15							0		
16					15.5-16.0 ft. lt. brown f-m SAND, saturated.		0		
17					E.O.B. at 16.0 feet				
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-5	COORDINATES:		DATE: 05/06/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 05/06/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 05/06/04
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Concrete slab - 1'				
1					Grayish Brown cmf SAND, little Silt, trace clay, trace mf Gravel w/ Pieces of Rock	F			0.0 PPM
2			42		w/ Pieces of Rock				
3					Grayish Brown cmf SAND, little Silt, trace clay and mf Gravel w/ Pieces of Rock.	F			0.0 PPM
4									
5			71		Grayish Brown cmf SAND, little Silt, trace clay and F Gravel w/ Pieces of Rock				0.0 PPM
A 6					Refusal at 6.0'				
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-6	**COORDINATES:**	**DATE:** 05/06/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/06/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/06/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete Slab - 10"				
1					↑ O				
2			46		P				
3					E				
4					N				
5					↓				
A 1.8			83		Brown cmf SAND, little Silt, trace clay, trace f Gravel w Pieces of Rock.				0.0 PPM
7					Refusal at 6.0'				
8									
9									
10									
11									
12									

NOTES: Sample A 0'-1' – JAR 2/18/05

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-7	COORDINATES:		DATE: 05/07/04
ELEVATION:	GWL: Depth: Date/Time:		DATE STARTED: 05/07/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:		DATE COMPLETED: 05/07/04
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete slab				
1					Dark Brown cmf SAND, little Silt, trace mf Gravel mf Pieces of Rock, Bricks				0.0 PPM
2									
3									
4					Dark Brown cmf SAND, little Silt, trace mf Gravel mf Pieces of Rock				0.0 PPM
5					trace clay				
6					Refusal at 6.0'				
7									
8									
9									
10									
11									
12									

A

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-8	**COORDINATES:**	**DATE:** 05/07/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/07/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/07/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					Brownish Gray cmf SAND, little Silt, trace clay trace f Gravel & Pieces of Rock				0.0 PPM
3									
4			38		Brownish Gray cmf SAND, trace Silt, trace clay & Pieces of Rocks				0.0 PPM
A 5					↓				
6					Refusal at 6.0'				
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-9	**COORDINATES:**	**DATE:** 05/07/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/07/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/07/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete Slab (8")				
1					Brown cmf SAND, little mf Gravel, trace Silt, trace Clay w/ Piece of Brick, Rock Concrete.	F			0.0 PPM
2									
3			63						
					w/ Pieces of Concrete.				
4					Brown cmf SAND, trace Silt, trace f Gravel w/ Pieces of Rock, concrete.	F			0.0 PPM
A 5									
6									
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-10	**COORDINATES:**	**DATE:** 05/07/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/07/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/07/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete Slab 1'				
2			50		Brown cmf SAND, Tittle Silt, Tittle mf Gravel & Pieces of Rock, Brick, concrete	F	F		0.0 ppm
3									
4									
A 5			83		Brown cmf SAND, Tittle mf Gravel, Tittle Silt & Pieces of Rock, concrete brick	F			0.0 ppm
6					Refusal at 5.0 feet.				
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-46-B-11	**COORDINATES:**	**DATE:** 05/07/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/07/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:**	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					Brown cmf SAND, little Silt, trace mf Gravel by Pieces of Rock, Brick Concrete	F			0.0 PPM
3			33						
4					Brown cmf SAND, trace Silt, trace mf Gravel by Pieces of Rok concrete				0.0 PPM
A 5			67		Refusal at 5.0' feet				
6									
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B1	COORDINATES:		DATE:	04/29/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~5 ft	Date/Time:	TIME STARTED:	12:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1					0.6-2.0 ft FILL concrete & brick fragments in matrix of dk. brown cmf SAND, stiff, moist (no staining or visual evidence of discharge)		0		
2			2.2				0		
3	X						0		Sample SI-47-B1-A1 & SI-47-B1-A2 (12:40) Total Cr
4					4.0-4.5 ft FILL (same as above)		0		Headspace = 0 ppm
5		▽	3.3				0		wet at ~5 ft Headspace = 0 ppm
6					5.5-6.0 ft m. brown silty CLAY, stiff, compact, moist		0		
7	X				6.0-8.0 ft dk. brown sandy CLAY, tr. gravel, pieces of weathered schist at 6.5 and 8.0 feet (till).		0		Sample SI-47-B1-B1 Total Cr & VOCs (12:55)
8							0		
9					8.0-10.0 ft dk. brown silty CLAY, stratified, stiff, compact, moist (till)		0		
10			3.5		10.0-12.0 ft reddish brown to m. brown inter-bedded silty CLAY and sandy CLAY, tr, gravel (till).		0		
11							0		
12							0		

NOTES: 1-inch-dia. well-point installed, screened from 3 to 18 ft bgs. (15 ft screen).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B1	COORDINATES:		DATE:	04/29/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~5 ft	Date/Time:	TIME STARTED:	12:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.4		12.0-16.0 ft. reddish-brown silty f. SAND, tr. cobbles, tr. gravel (weathered schist), compact, stiff, saturated, (till?)		0 0 0 0		
16			1.2 over 2 ft		16.0-18.0 ft. m. brown f. SAND, tr. cobbles, saturated.		0 0		Headspace = 0 ppm
18					REFUSAL @ 18.0 ft E.O.B (13:00)				
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B2(A)	COORDINATES:		DATE:	04/29/04
ELEVATION:	SLAB ON GRADE	GWL: Depth:	Date/Time:	TIME STARTED:	13:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:25
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1			2.2		0.6-4.0 ft FILL m. brown f. SAND, brick, concrete, & rock fragments, moist.		0		
2							0		
3							0		
4							0		
5					4.0-6.5 ft FILL m. brown f. SAND, coal ash, brick and concrete fragments.		0		
6			1.8 over 3'				0		
7	X				6.4-7.0 ft Concrete slab w. green staining				SI-47-B2-A1 (13:15)
8					REFUSAL @ 7.0 ft E.O.B (13:25)				
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B2(B)	COORDINATES:		DATE:	04/29/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~5	Date/Time:	TIME STARTED:	13:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:35
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft Concrete slab				
1					0.5 -4.0 ft FILL concrete fragments, coal ash, brick fragments, moist, compact.		0		
2			2.2				0		
3							0		
4					4.0-5.5 (same as above) perched water ~5 ft		0		
5	X	▽	2.6				0		Headspace = 0 ppm Sample SI-47-B2-A-1
					5.0-6.0 ft concrete slab 8" thick w./ green staining		0		
6					6.0-8.0 ft m. brown to redish brown silty CLAY, stiff, very compact, micaceous, moist		0		
7							0		
8					8.0-11.5 ft. brown silty CLAY, tr. gravel, stiff, compact, saturated (till)		0		
9							0		
10			3.6				0		
11							0		
12					11.5-12.0 ft reddish-brown clayey f. SAND, tr. gravel		0		weathered schist fragme

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B2(B)	COORDINATES:		DATE:	04/29/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~5	Date/Time:	TIME STARTED:	13:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:35
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13	X				12.0-16.0 ft. reddish brown f. SAND, tr. rock fragments, (weathered schist) saturated.		0 0 0 0		Sample SI-47-B2-B1
16					E.O.B. @ 16.0 (14:35)				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

Installed well point to 17 feet bgs (pushed to 17'), with screen from 2-17 feet.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B3	COORDINATES:		DATE:	04/29/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~6 ft	Date/Time:	TIME STARTED:	15:10
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:40
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1			2.5		0.6-4.0 ft FILL dk. brown cmf silty SAND, some crushed stone, concrete fragments, moist.		0		
2							0		
3							0		
4	X						0		
5	X				4.0-5.0 ft FILL (same as above), compact		0		Headspace = 0 ppm Sample SI-47-B3-A-1 4.0-4.5 ft (15:15)
					5.0-6.0 ft dk. brown silty CLAY, stiff, moist (till)		0		
6		▽	3.6		6.0-8.0 ft. reddish-brown sandy CLAY, tr. rock fragments (schist); saturated but no apparent yield (till)		0		
7							0		
8					8.0-9.0 ft till (same as above)		0		
9	X				9.0-9.6 ft. dk brown silty f. SAND, saturated, (1st water bearing zone)		0		Headspace = 0 ppm Sample SI-47-B3-B-1 9.0-9.5 ft (15:20)
10			3.2		9.6-12.0 ft. reddish-brown sandy SILT, saturated, rock (schist) fragments (till)		0		
11							0		
12							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B3	COORDINATES:		DATE:	04/29/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~6 ft	Date/Time:	TIME STARTED:	15:10
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:40
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			3.4		12.0-16.0 ft. dark brown to reddish-brown silty SAND, tr. rock (schist) fragments, saturated, very compact, stiff (till)		0 0 0 0 0		
16			3.2		16.0-20.0 ft. dk. brown f-m SAND, tr. c. sand, tr. silt, saturated.		0 0 0 0 0		
20					**E.O.B. @20.0 ft 15:45**				
21									
22									
23									
24									

NOTES:

1"-dia. PVC well point installed, screended from 15-20 feet bgs.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B4	COORDINATES:		DATE:	04/30/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~5 ft	Date/Time:	TIME STARTED:	11:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	12:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1			1.5		0.6-4.0 ft. FILL crushed stone, concrete fragments in matrix of lt. grey silty f. SAND, moist (brick in shoe)		0		
2							0		
3							0		
4							0		Headspace = 0 ppm
5	X	▽			4.0-6.0 ft FILL rusty brown coal ash, crushed stone, brick fragments in reddish-brown sandy matrix, moist [perched water at 4-5 ft]		0		Sample SI-47-B4-A-1 4.5-5.0 ft (11:50)
6			3.0		6.0-8.0 ft reddish-brown sandy CLAY, rock fragments, (till), very stiff, compact moist		0		
7							0		
8	X				8.0-12.0 ft dark brown to redish-brown f. SAND, tr. gravel and rock fragments, saturated (water bearing zone)		0		Headspace = 0 ppm
9							0		Sample SI-47-B4-B-1 8.0-8.5 ft (11:55) MS/MSD
10			2.6				0		
11							0		
12					E.O.B. @ 12.0 ft				

NOTES:

Refusal (obstruction) at 12.0 feet ; 1-inch-dia. PVC well-point screened at 2-12 ft bgs.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B5	COORDINATES:		DATE:	04/30/04
ELEVATION:	SLAB ON GRADE	GWL: Depth:	~11 ft Date/Time:	TIME STARTED:	9:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1					0.6-1.5 ft. FILL concrete fragments, coal ash, brick fragments, in matrix of dk. brown f. SAND, moist.		0		
							0		
2					1.5-4.0 ft. reddish brown f. SAND, compact, moist		0		
3			2.4				0		
							0		Headspace = 0.3 ppm
4	X				4.0-4.6 ft. (same as above)		0		Sample SI-47-B5-A-1 4.0-4.6 ft (09:20)
5					4.6-5.8 ft. dk. brown mottled CLAY, stiff, compact, moist		0		
							0		
6			3.5		5.8-8.0 ft. reddish-brown sandy CLAY, some rock fragments, moist (till)		0		
7							0		
8					8.0-11.2 ft (same as above)		0		
9							0		
10			3.2				0		
11		▽					0		Headspace = 0 ppm
12	X				11.2-12.0 ft. dk. brown f. SAND, tr. silts, tr. clay, saturated.		0		Sample SI-47-B5-B-1 11.2-12.0 ft (09:50)

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-47-B5	COORDINATES:	DATE:	04/30/04
ELEVATION: SLAB ON GRADE	GWL: Depth: ~11 ft Date/Time:	TIME STARTED:	9:00
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	10:00
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
12					12.0-16.0 ft. (same as above)		0		
13							0		
14			2.4				0		
15							0		
16							0		rock fragments
					E.O.B. @ 16.0 ft (refusal)				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000	PROJECT NAME: *Former* General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-47-B6	COORDINATES:	DATE: 04/30/04	
ELEVATION: SLAB ON GRADE	GWL: Depth: ~9.0 Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1			2.5		0.6-1.5 ft. FILL: concrete fragments, + crushed stone		0		
					1.5-2.2 ft. FILL: coal ash, coal, brick fragments, moist		0		
2							0		
					2.2 - 4.-0 ft. FILL: orange-brown f. SAND, compact moist		0		
3							0		
4							0		
			3.4		4.0 - 6.2 ft. (same as above) **Sample SI-47-B6-A-1** collected at 5.4 to 6.0 feet (10:35)		0		
5							0		
6	X						0		
7					6.2-8.0 ft. dk. brown CLAY, mottled, stiff, very compact, moist (glacial till)		0		
							0		
8							0		
			4.0		8.0 - 9.0 ft. (same as above)		0		
9	X				9.0 - 12.0 ft. reddish-brown clayey SAND, some silt, little gravel, interbedded with silty SAND, saturated. Sample SI-47-B6-B-1 collected at 9.0 to 9.6 feet (10:40).		0		
10							0		
11							0		
12							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-47-B6	COORDINATES:	DATE: 04/30/04	
ELEVATION: SLAB ON GRADE	GWL: Depth: ~9.0 Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.5' over 3.0 feet		12.0-15.0 feet redish-brown f. SAND, tr. clay, saturated (water bearing zone)		0 0 0 0		
15					**E.O.B. at 15.0 ft. (refusal, bedrock)**				
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES: Temporary well installed, 1-inch dia. PVC screened from 5-16' b.g.s.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-47-B7	COORDINATES:	DATE:	04/30/04
ELEVATION: SLAB ON GRADE	GWL: Depth: ~12.4 Date/Time:	TIME STARTED:	8:00
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	8:55
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSTRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1					0.6-1.2 ft. FILL dk. brn. silty c-m-f- SAND, moist		0		
					1.2-1.5 ft. FILL concrete fragments		0		
2			2.5		1.5-4.0 ft. reddish-brown to m. brown silty f. SAND, tr. clay, moist, tr. rock fragments, moist (uncertain whether fill or native material)		0		
3							0		
4							0		
					4.0-6.5 ft. same as above, grading into c-m-f- SAND with depth. **Sample SI-47-B7-A1** collected at 6.0-6.5 feet (08:40)		0		
5							0		
							0		
6	X		3.3				0		h/s = 0 ppm
7					6.5-8.0 ft. dk. brown CLAY, stiff, mottled, very compact, moist.		0		
							0		
8					8.0-12.0 ft. redish-brown f. sandy CLAY, stiff, very compact, moist. (till)		0		
9							0		
10			4.0				0		
11							0		
12							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B7	COORDINATES:		DATE:	04/30/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~12.4	Date/Time:	TIME STARTED:	8:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:55
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSTRUCTION	REMARKS
					12.0-12.4 ft. same as above, moist			0	
13	X				12.4 - 15.0 ft. reddish-brownto dk. brn. silty f. SAND, tr. clay, tr. rock fragments, saturated. **Sample SI-47-B7-B1** collected at 12.4-13.0 feet (08:50). Note: Stratum appears to be hydraulically confined			0	h/s = 0 ppm
								0	
14								0	
15								0	
					15.0-16.0 ft. dk. brown f-m SAND, tr. weathered schist, saturated			0	
16					16.0-19.0 ft. same as above (saturated)			0	
17								0	
18								0	
19								0	
					E.O.B. 19.0 feet; refusal (bedrock)				
20					No VOC sample				
21									
22									
23									
24									

NOTES: Temporary well installed, 1-inch dia PVC, screened from 4-19 feet b.g.s.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B8	COORDINATES:		DATE:	04/30/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~8.0	Date/Time:	TIME STARTED:	12:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:10
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft Concrete slab				
1					0.6-1.1 ft. FILL black coal ash, rusty, moist		0		
					1.1-2.0 ft. FILL lt. gray rock (quartzite) fragments and concrete fragments, moist		0		
2			2.7		2.0-4.0 ft. m. brown silty f. SAND, tr. clay, tr. gravel, stiff, compact, moist.		0		
3							0		
4							0		
					4.0-5.5 ft. same as above. **Sample SI-47-B8-A1** collected at 5.0-5.5 feet bgs. (12:35)		0		
5	X						0		h/s = 0 ppm
6			3.0		5.5-8.0 ft. reddish-brown to brown sandy SILT, tr. gravel, stif moist.		0		
7							0		
8							0		
					8.0-8.8 ft. dk. brown silty CLAY, plastic, stiff, (saturated)		0		
9					8.8-10.0 ft. reddish-brown to brown sandy CLAY, stiff, compact, saturated		0		
10			2.8				0		
	X				10.0-12.0 ft. dk. brown to reddish-brown f. SAND, *interbedded w./* clayey SAND, compact, saturated. **Sample SI-47-B8-B1** collected at 10.0-10.5 ft. (12:50)		0		sandy horizon at 10.0-10.5 ft.
11							0		
12							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B8	COORDINATES:		DATE:	04/30/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~8.0	Date/Time:	TIME STARTED:	12:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:10
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
12					12.0-16.0 ft. med. brown clayey f-m SAND, some gravel, loose saturated.		0		
13							0		
14							0		
15							0		
16							0		
					16.0-18.0 ft. (same as above)		0		
17							0		
18					18.0-19.0 ft. brownish-gray clayey f-m-c- SAND, some gravel, saturated (till)		0		
19							0		
					E.O.B. 19.0 feet; refusal (bedrock)				
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B9	COORDINATES:		DATE:	05/17/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: NA	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:55
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-1.0 ft Concrete slab				
2					1.0-2.0 ft. FILL dk. brown to black f. SAND, little coal ash, moist		0 0		
3			3.0		2.0-4.0 ft. FILL dk brown to orange-brown f. SAND, tr. clay, moist		0 0		
4							0		
5					4.0-6.0 ft. FILL (same as above) **Sample SI-47-B9-A1** collected at 6.0-6.5 ft. (13:50)		0		
6	☒		3.4				0		h/s = 0 ppm
7					6.0-8.0 ft. reddish-brown sandy CLAY, tr. gravel, stiff, compact, moist. (TILL)		0 0		
8					**E.O.B. at 8.0 feet**				
9									
10									
11									
12									

NOTES:

Note: Groundwater not encountered.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-47-B10	COORDINATES:	DATE: 05/17/04	
ELEVATION: SLAB ON GRADE	GWL: Depth: NA Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	14:25
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1				^ < > < ^ > ^ < > ### ^ < >	0-1.0 ft Concrete slab				
2			3.2	### # ## ### # ## ### # ## ### # ## ### # ## ### # ## ### # ## ###	1.0-4.0 ft FILL reddish-brown to greenish-gray sandy CLAY, some gravel, moist (appears to be disturbed till). **Sample SI-47-B10-A1** collected at 3.5-4.0 feet (14:20)		0 0 0 0 0		
3									
4	X								
5					**E.O.B. at 4.0 feet (refusal)**				concrete slab at 4.0 feet (no staining observed)
6									
7									
8									
9									
10									
11									
12									

NOTES:

Refusal at 4.0 feet (concrete slab) staining not observed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-47-B11	COORDINATES:	DATE: 05/17/04	
ELEVATION: SLAB ON GRADE	GWL: Depth: NA Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	14:45
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-1.0 ft Concrete slab				
2			3.2		1.0-4.0 ft. FILL dk. brown to black clayey SAND, coal ash, brick fragments, moist.		0 0 0 0		
4	X				4.0-4.8 ft Concrete slab (green staining) Archive sample collected at 3.5-4.0 feet bgs.		0		
5			3.3		4.8-7.5 ft. FILL reddish-brown sandy CLAY, tr. rock fragments, w./ sandy horizons, stiff, compact, moist (disturbed TILL)		0 0 0 0		
8					7.5-8.0 ft Concrete slab (no staining observed)				
					E.O.B. at 8.0 feet (refusal)				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B12	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~9.0	Date/Time:	TIME STARTED:	7:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.8 ft Concrete slab				
1					0.8-1.0 ft. FILL Black coal ash and f-m SAND. moist		0		
2			2.8		1.0-4.0 ft. FILL dk. brown f. SAND, tr. coal ash, tr. gravel, moist.		0		
							0		
3							0		
4							0		
					4.0-5.0 ft. (same as above) perched water at 4.5-5.0 ft.		0		PID affected by high humidity - results may not be reliable.
5					Sample SI-47-B12-A1 collected at 4.5-5.0 ft. (08:00)		~1 ppm		
					5.0-9.0 ft. reddish-brown sandy CLAY, stiff, compact, (TILL) moist		0		
6			2.3				0		
7							0		
8							0		
			1.5 over 2'				0		
9					9.0-10.0 ft. dk. brown f. SAND, tr. gravel, rock fragments, saturated (confined unit).		0		
10					**E.O.B. at 10.0 feet (refusal) bedrock**				
11									
12									

NOTES:

Temporary well installed (1-inch dia. PVC) screen from 0-10 feet, upper 2 feet of screen protected with a Macrocore sleeve.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B13	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~5.0	Date/Time:	TIME STARTED:	8:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.8 ft Concrete slab				
1			2.2		0.8 - 4.0 ft. FILL dk. brown f. SAND, tr. coal ash, some concrete & rock fragments, moist.		0		
2							0		
3							0		
4							0		
					4.0-5.0 ft. (same as above)		0		
5			2.6		5.0-7.5 ft. dk. brown f. SAND, tr. gravel, wet (perched water at 5.0 ft.). **Sample SI-47-B13-A1** collected at 7.0-7.5 feet for Cr only (08:40)		0		
6							0		
7	X						0		
					7.5-8.0 ft. redish-brown sandy CLAY, stiff, very compact, slightly moist (TILL).		0		
8									
9					8.0-12.0 ft. reddish-brown andy CLAY, some gravel & rock fragments (large gneiss cobble at 10 ft), stiff, compact, moist.		0		Note: PID is giving erratic results (false readings),due to high humidity and condensation on the bulb.
10							0		
11							0		
12							0		

NOTES:

Temporary constructed of 1-inch dia. PVC, screened from 2.5-17.5 feet bgs.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B13	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth:	~5.0 Date/Time:	TIME STARTED:	8:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			3.4		12.0-15.5 ft. reddish-brown to greenish-brown mottled SILT, tr. f. sand, uniform, thinly laminated, stiff, compact (Loess?), moist.		0 0 0 0		
16					15.5-17.5 ft reddish-brwon to dk. brown f. SAND, tr. m. sand (silty in upper 0.5 ft.), saturated (sem-confined unit).		0		
17			1.2' over 1.5'				0 0		
18					**E.O.B. at 17.5 feet (refusal) bedrock**				
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-47-B14	COORDINATES:	DATE:	05/18/04
ELEVATION: SLAB ON GRADE	GWL: Depth: ~10.5' Date/Time:	TIME STARTED:	9:30
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:55
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.8 ft Concrete slab				
1			2.6		0.8-3.0 ft. FILL dk. gray to black coal ash plus crushed stone, and f. sand, moist.		0		
2							0		
3							0		
					3.0-4.0 ft. orange brown to dk. brown f. SAND, tr. clay, moist.		0		
4			2.9		4.0-8.0 ft. orange brown to dk. brown f. SAND, little gravel, tr. cobbles, unstratified, moist		0		uncertain whether native soil or fill.
5							0		
6							0		
7							0		
8							0		
			2.4		8.0-11.0 ft m. brown c-m-f- SAND, cobbles in lower 0.5', moist, (saturated at 10.5 feet)		0		uncertain whether native soil or fill.
9							0		
10							0		
11							0		
					11.0-11.2 ft. dk. reddish-brn. sandy CLAY, stiff, saturated (TILL).		0		
12					11.2-12.0 ft. reddish-brown c-m-f- SAND, saturated		0		

NOTES:

No perched water observed; no soil samples collected; temporary well screened from 3-13 ft bgs.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B14	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth:	~10.5' Date/Time:	TIME STARTED:	9:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:55
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
			0.8'/1'		12.0-12.6 ft. same as above.		0		
13					12.6-13.0 ft reddish-brown sandy clay, some cobbles (till).		0		
14					**E.O.B. at 13.0 feet (refusal)**				
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B15	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~11.5'	Date/Time:	TIME STARTED:	10:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	11:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.8 ft Concrete slab				
1			2.3		0.8-4.0 ft. FILL coal ash, brick fragments, concrete plus dk. brown f. SAND, moist.		10-15 ppm		Note: PID readings are probably not reliable, due to moisture effects
4					4.0-5.0 ft. black to rusty brown coal ash, glass, mixed with dk. brn. f. sand, moist (perched water at 5.7-5.0 ft.)		10-15 ppm		**Sample SI-47-B15-A1** collected from 4.6-5.0 ft. (10:55)
5					5-5.8 ft Concrete slab (green staining) **Sample SI-47-B15-B1** collected at 5.0-5.6 ft (11:00)		0		
6			3.3		5.8-6.0 ft. reddish-brn. c-m-f- SAND, moist.		0		
7					6.0-8.0 ft. reddish-brown mottled silty CLAY, stratified, stiff, compact, slightly moist (till).		0 0 0		
8					8.0-11.5 ft. reddish-brown sandy CLAY, some cobbles (weathered gneiss), most stiff, very compact (till).		0		
9							0		
10			3.8				0		
11							0		
12					11.5-12.0 ft. reddish-brn. clayey SILT, tr. f. sand, saturated.		0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B15	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth:	~11.5' Date/Time:	TIME STARTED:	10:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	11:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					12.0 - 12.4 same as above		0		
13			3.5		12.4-15.5 ft. reddish-brown gravelly f. SAND, tr. clay, tr. rock fragments, saturated.		0		
14							0		
15							0		
16					15.5-16.0 ft.. weathered gneiss.		0		
					E.O.B. at 16.0 feet (refusal)				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

Temporary well screened from 11-16 feet, annular space around riser sealed with bentonite to grade.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B15	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth:	~11.5' Date/Time:	TIME STARTED:	10:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	11:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.8 ft Concrete slab				
1			2.3		0.8-4.0 ft. FILL coal ash, brick fragments, concrete plus dk. brown f. SAND, moist.		10-15 ppm		Note: PID readings are probably not reliable, due to moisture effects
4					4.0-5.0 ft. black to rusty brown coal ash, glass, mixed with dk. brn. f. sand, moist (perched water at 5.7-5.0 ft.)		10-15 ppm		**Sample SI-47-B15-A1** collected from 4.6-5.0 ft. (10:55)
5					5-5.8 ft Concrete slab (green staining) **Sample SI-47-B15-B1** collected at 5.0-5.6 ft (11:00)		0		
6			3.3		5.8-6.0 ft. reddish-brn. c-m-f- SAND, moist.		0		
7					6.0-8.0 ft. reddish-brown mottled silty CLAY, stratified, stiff, compact, slightly moist (till).		0 0 0		
8			3.8		8.0-11.5 ft. reddish-brown sandy CLAY, some cobbles (weathered gneiss), most stiff, very compact (till).		0 0 0 0		
12					11.5-12.0 ft. reddish-brn. clayey SILT, tr. f. sand, saturated.		0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-47-B15	COORDINATES:		DATE:	05/18/04
ELEVATION:	SLAB ON GRADE	GWL: Depth: ~11.5'	Date/Time:	TIME STARTED:	10:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	11:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					12.0 - 12.4 same as above		0		
13			3.5		12.4-15.5 ft. reddish-brown gravelly f. SAND, tr. clay, tr. rock fragments, saturated.		0		
14							0		
15							0		
16				+ + + + + +	15.5-16.0 ft.. weathered gneiss.		0		
17					**E.O.B. at 16.0 feet (refusal)**				
18									
19									
20									
21									
22									
23									
24									

NOTES:

Temporary well screened from 11-16 feet, annular space around riser sealed with bentonite to grade.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-16	COORDINATES:	DATE: 07/21/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/21/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID
1					Concrete				
					Asphalt				
2					Concrete				
					Yellowish Red cmf SAND, little Silt, trace mf Gravel trace clay & Piece of Rock	F			0.0 ppm
3			83						
4					w/ mf Gravel				
5					Yellowish Brown and Red cmf SAND, little Silt & clay & Piece of Rock, gravel	F			0.0 ppm
6									
7			83						
8					Red and Dark Brown cmf SAND, trace Silt, trace clay, trace f Gravel	Till			GWL 8.0' ±
9					↓				
10					Yellowish Brown SILT/CLAY, little mf Sand, trace f Gravel & Piece of Rock	Till			0.0 ppm
11					alternat bands of Silt/clay				
12									

NOTES:

Temporary Well

Screen: 5-15' - 1" PVC screen
0.5 - 1" PVC Riser
2-15' - Sand pack
1-2 - Bentonite

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-16	**COORDINATES:**	**DATE:** 07/21/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/21/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID
13			80		Grayish Brown cmf SAND, little Silt, trace clay, trace f Gravel				0.0 ppm
					Black cmf GRAVEL and SAND, trace Silt & clay	GP/SP (Till)			
14					Grayish Brown cmf SAND, little Silt, trace clay	SP (Till)			0.0 ppm
15					End of the Boring at 15.0 feet				
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: 52-47-B-17	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID ppm)
					Concrete slab				
1					Brownish yellow cmf SAND, and Silt, little clay & Piece of Gravel, Rock & Piece of Concrete	F			0.0
2									
3			75						
4					Yellowish Brown cmf SAND, little Silt, trace mf Grav. & Piece of Rock, gravel etc	F Till			0.0
5									
6									
7					Yellowish Brown cmf SAND, little Silt (glacial Till)	Till			
8			80		Yellow Brown SILT and CLAY, trace f Sand, trace mf Gravel & Piece of Rock				0.0
9									
10					Gray and Yellowish Brown cmf SAND, little Silt trace clay	Till			0.0
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-17	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
13			75		Gray and yellowish Brown cmg SAND, little Silt, trace clay	Till			0.0
14					Gray and Black cmg SAND, little Silt, little mf Gravel, trace clay				
15					End of the Boring at 15.00 feet				
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-18	COORDINATES:	DATE: 07/20/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/20/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID CBRN
					Concrete slab				
1									
2									
3			NR		No Recovery				
4									
5					Multi color cmf GRAVEL, little cmf Sand, trace silt-				0.0
6						Till			
7			60		Grayish Green and Reddish Brown CLAY & SILT, trace f sand & mf Gravel				
8					Reddish Brown cmf SAND little Silt, trace clay				0.0
9					Reddish Brown SILT, little f sand, trace clay & f Gravel & Pieces of Rock	Till			
10									
11			40		Reddish Brown Cmf SAND, little Silt, trace mf Gravel trace clay & Piece of Rock	Till			0.0
12					↓				

NOTES: Temporary well

Screen - 2-12' - 1" PVC 0.010
Riser - 0-2 - 1" PVC
Sand pack - 1-12'
Bentonite 0.5-1 -
0-0.5 - Cement

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-19	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					Concrete slab				
1					Black cmf SAND, little Silt, little f Gravel, trace clay & piece of Rock				0.0
2						f			
3			46		Brown cmf SAND, little cmf Gravel, trace clay & pieces of Concrete				0.0
4						F			
5					Brwn cmf SAND Reddish Brown CLAY/SILT little mf Sand, trace mf Gravel				0.0
6					w/ Pieces of Rock	Fill			
7									
8			58		Reddish Brown cmf SAND, little Silt, trace clay, trace f Gravel	Till			0.0
9									est. to 5
10									
11			83		Refusal at 11.0'				0.0
12									

NOTES: Temp well

Screen - 3-11' - 1" PVC 0.010"
Riser - 0-3 - 1" PVC.
Sand pack - 1-11' feet
Bentnil - 0.5-1.0 -

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-20	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete Slab				PID (ppm)
1					Brown cmf SAND, little Silt, trace clay, trace f Gravel w/ Piece of Rock	F			0.0
2									
3			75		Dark Brown cmf SAND, little Silt, little mf Gravel trace clay w/ Piece of Rock	F			0.0
4					↓				
A-1					concrete slab				
5					End of H20 at 5.0' (Refusal)				
6									
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-21	**COORDINATES:**	**DATE:** 07/20/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/20/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/20/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
1					Concrete Slab				
2					Gray and Reddish Brown cmf SAND, little silt, trace clay & Piece of Rock gravel, Brick	F			0.0
3			63		↓ Piece of Brick				
4					Reddish Brown cmf SAND, little mf Gravel	F			0.0
5					Green mf SAND, little silt, trace f Gravel & Pieces of Concrete	Till			
6					Red cmf SAND, little silt, trace f Gravel				0.0
7					Reddish Brown SILT & CLAY, little f Gravel				
8			63		trace cmf Sand & Piece of Rock	Till			0.0
9					↓				
10					End of the Boring at 10.0'				
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-22	**COORDINATES:**	**DATE:** 07/21/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/21/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS (PID CPPM)
					Concrete Slab				
1									
2			NIL		No Recovery				
3									
					Brown cmf SAND, little Silt, trace mf Gravel & Piec of Rock	F			0.0
4									
4.5' ft A-5.0			50		& Pieces of Brick				
5									
					Brownish Gray cmf SAND, little Silt, little mf Gravel trace clay & Piece of Rock	F			0.0
6									
					End of the Boring at 6.0' (Refusal - Slab)				
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SB-47-13-23	COORDINATES:	DATE: 07/21/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/21/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS (PID CBLW)
					Concrete slab				
1					Brick				
2					Dark Brown cmf SAND, little Silt, trace clay, trace mf Gravel & Pieces of	F			0.0
3			83		Rock, Wood	P			
4					Black Piece of Asphalt				
					Yellowish Brown SILT/				0.0
5					CLAY, little f Gravel & Pieces of Rock				
6					Yellowish Brown cmf SAND, Some Silt & clay, trace mf Gravel & Pieces of Rock	Till			
7			80						
8					mf Sand				
					Brownish Gray SILT/CLAY	Till			0.0
9					little mf Gravel & Piece of Rock				
10					End of the Boring at 10.0 feet				
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-24	COORDINATES:	DATE: 07/21/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 07/21/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS (PID (ppm))
1					Concrete slab				
2					Gray & whitish Brown dry SAND, little dry Gravel trace Silt & piece of Rock, concrete	P			0.0
3			67						
4					in Broken	F			
5					Refusal at 4.0 feet (Concrete slab)				
6									
7									
8									
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-47-B-25	**COORDINATES:**	**DATE:** 07/21/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 07/21/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 07/21/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

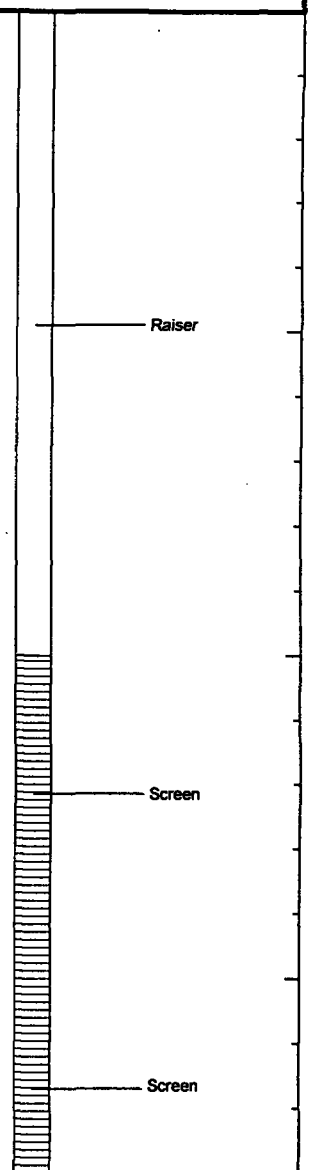
DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Concrete Slab				
2					Brownish yellow cmf SAND, little Silt, trace clay & Piece of Rock	F			0.0
3			55						
4					Brownish yellow mf SAND, little Silt, trace clay & Piece of Rock	F			0.0
5					Green cmf SAND, little silt	Till			
6					yellowish Brown SILT & CLAY, little mf Sand, trace mf Gravel & Piece of Rock				0.0
7			77			Till			
8					Red mf SAND, and clay, little Silt, trace of Gravel				0.0
9						Till			
10					End of the Boring at 10.0' feet				
11									
12									

5.0'-5.5'

NOTES: No slab at 6.0'

Date Start/Finish: 10/4/04	**Borehole Depth:** 20.0' bgs	**Well/Boring ID:** SI-47-B27
Drilling Company: B&B Drilling	**Surface Elevation:**	**Client:** General Motors
Driller's Name: Gordon Blewett	**Geologist:** J. Robertson	**Location:** Former General Motors Assembly Plant Site, Sleepy Hollow, NY
Drilling Method: Geoprobe, 4-foot Macrocore sampler		

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
	1	0-4	3.0	2.7 2.5 3.2		Dark brown SILTY SANDY SOIL. Brown-red fine to coarse SAND, little Rock, moist.
5 -5	2	4-8	3.75	5.3 5.7 5.9		Brown fine to medium SAND, trace Clay, moist. Brown SILTY SAND, some fine Sand, trace Rock, moist.
10-10	3	8-12	3.25	2.2 3.2 2.7		Brown fine to coarse SAND, saturated at 8.0' bgs. Brown fine to medium SAND, trace Silt, trace Clay.
15-15	4	12-16	2.25	4.8 2.5		Brown fine to coarse SAND, little Silt. Brown fine to medium SAND, some Silt. Black fine Sand lens 13' thick, no odor at 14.0' bgs.
	5	16-20	3.0	7.9 3.3 2.5		Brown fine to medium SAND, some coarse Sand, trace Silt, trace Rock. Hard packed at 18.0' bgs. End of boring at 19.0' bgs.



Well/Boring Construction

BBL
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engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm. Temperary well installed 8-18', 2" PVC well/ 10' raiser 10' screen. Sample taken from 0.0'-0.5' bgs.

Date Start/Finish: 10/4/04	**Borehole Depth:** 20.0' bgs	**Well/Boring ID:** SI-47-B28
Drilling Company: B&B Drilling	**Surface Elevation:**	**Client:** General Motors
Driller's Name: Gordon Blewett	**Geologist:** J. Robertson	**Location:** Former General Motors Assembly Plant Site Sleepy Hollow, NY
Drilling Method: Geoprobe 4-foot Macrocore sampler		

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
				0.0		Dark brown SILTY SOIL.	
				0.0		Brown fine to medium SAND, little Silt, moist.	
	1	0-4	3.17	0.0		Brown CLAY, trace Silt, dry.	
						Red-brown CLAY, little Silt, dry.	
				0.0		Red-brown Silt, some very fine Sand, little fine Gravel, trace Gravel, moist.	
5 -5				0.0			Raiser
	2	4-8	4.0	0.0			
						Red-brown fine to medium SAND, wet.	
						Red-brown very fine SAND, some Silt, wet.	
				1.7		Red-brown fine SAND, saturated.	
						Brown medium to coarse SAND, little Rock, saturated.	
10-10	3	8-12	3.42	0.7		Brown very fine SAND, little Clay, little Silt.	
				2.5		Brown fine to coarse SAND, little Silt, saturated.	Screen
				2.7			
	4	12-16	3.58	2.5			
15-15						Brown medium to coarse SAND, little Silt, satruated.	
				2.5		Brown medium to coarse SAND.	
	5	16-20	2.42			Brown fine to medium SAND.	Screen
				3.1		Brown medium to coarse SAND.	
						Brown fine to coarse SAND, little weathered Rock.	
						End of boring at 18.5' bgs.	

BBL
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engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
PID readings collected using ziplock bags. PID readings of Ziplock bag was 3.4ppm. Temperary well installed 8-18', 2" PVC well/ 10' raiser 10' screen. Sample taken from 0.0'-0.5' bgs.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B1	COORDINATES:	DATE:	10/20/03
ELEVATION / DATUM: Conc. Slab	GWL: Depth: 6.0 Date/Time:	TIME STARTED:	13:15
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 ft. Concrete slab				
1			2.7		0.5-1.0 ft. FILL Crushed stone. 1.0-4.0 ft. FILL dk. Gray to black coal ash, f. SAND, crushed stone, and coal, moist. (tip of probe wet)		0 0 0 0		
4			2.0		4.0-8.0 ft FILL black coal ash, f. sand, crushed stone, w./ rusty brown horizons, moist to 6.0 ft. (saturated at 6 ft.)		0 0 0 0 0		
8			2.4		8.0-12.0 ft. FILL crushed stone, brick fragments, f-m-c sand, saturated, black oil staining throughout.		10-20 10-20 10-20		Globules of oil present on outside of sampler.

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B1	COORDINATES:		DATE:	10/20/03
ELEVATION / DATUM:	Conc. Slab	GWL: Depth: 6.0	Date/Time:	TIME STARTED:	13:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-15.5 ft. FILL Black oily crushed stone, wood, coal ash, w./ rusty horizons, saturated, oil staining and strong petroleum odor.		150-300		
14			2.7				10-20		
15							5-10		
16					15.5-16.0 ft. Black fine SAND, oil stained w./ odor.		0.5-3.0		
17					16.0-20.0 ft. lt. gray f-m-c- SAND, tr. Gravel, saturated (no staining).		0		
18			4.0				0		
19							0		Possible contact with peat layer at 20 ft. (roots & clay in tip of sampler).
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY
BORING NUMBER:	SI-UST-B2	COORDINATES:	DATE: 10/20/03
ELEVATION / DATUM:	Grade (millings)	GWL: Depth: 7.5 Date/Time:	TIME STARTED: 8:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth: Date/Time:	TIME COMPLETED: 10:19
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			1.9		0-3.5 ft. FILL 1" crushed stone mixed w./ m. brown to dk. brown sandy silt, asphalt fragments, and millings, n\moist.		0 0 0 0		
4					3.5-4.0 ft. FILL black f-m-c SAND w./ 50% crushed stone. moist		2-5		
5			3.2		4.0-8.0 ft. FILL dk. gray to black f-m-c SAND and crushed stone, oily sheen and strong petroleum odor, wet.		50-80		Heaviest staining and PID at 7.5-8.0 ft.
8			2.5		8.0-12.0 ft. FILL black crushed stone and f-m-c SAND, oily, saturated.		250-400 200-450		Driller forgot to place macrocore liner in sampler - sample collected from unlined tube.

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B2	COORDINATES:		DATE:	10/20/03
ELEVATION / DATUM:	Grade (millings)	GWL: Depth: 7.5	Date/Time:	TIME STARTED:	8:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:19
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-16.0 ft. FILL black to dk. gray crushed stone and f-m-c silty SAND, some clay, tr. wood, saturated, oily with odor.		150-200		
14			2.4				10-15		
15							10-15		wood in lower 0.5 feet - possible buried structure
16					16.0-20.0 ft. light gray f-m-c gravelly SAND, saturated, poorly graded, uniform color, gravel well rounded to subangular.		5-10		possibly native soil; no stratification
17							0-2		
18	X						0-0.5		Archive sample of sand collected
19							0		
20					20.0-23.4 ft. same as above w./ tr. gravel to 1" wide, saturated		0		
21							0		
22							0		
23					23.4-24.0 ft. Peat w./ some clay, dk. brown, visible plant remains, stiff, moist, strong H_2S odor				
24							0		

NOTES:

E.O.B. at 24.0 feet.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B3	COORDINATES:	DATE: 10/15/03	
ELEVATION: 7.36'	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					6" Asphalt				
					Concrete slab (2.5')	F			0.0
1									
2									
3			15		Dark Gray & Black cmf SAND, little Silt, trace cmf Gravel w/ pcs of Rock, concrete Brick	F			0.0
4					Brownish yellow cmf SAND, little Silt, trace f Gravel	F			0.0
5					green				GWL-5.0'
6			75		Black cmf SAND, little Silt, trace clay, little mf Gravel w/ Pieces of Rock concrete, Brick	F			9000 — 6.0' oily
7					w/ Pieces of Concrete, Brick Rock etc	F			
8					w/ Pieces of Wood				oily
9					Black cmf SAND, little Silt trace clay w/ Pieces of Rock Brick, concrete etc.	F			9000
10			80						Oily
11					Pieces of Concrete				9000
12					Black & Gray cmf SAND, little Silt w/ Rock Brick	F			oily

NOTES: Oil/Water Shake Test - performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B3	COORDINATES:	DATE: 10/15/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
13					Dark Gray to Brownish yellow cmf SAND, little mf Gravel & Pieces of Rock, Coal, Concrete etc.	FI			0.0
14					Dark Gray cmf SAND, little Silt, trace mf Gravel, trace clay	FI/SP			0.0
			85		Dark Gray cmf SAND, little mf Gravel, trace Silt	SP			0.0
15					Brown Organic SILT & Pieces of decomposed wood	SP			0.0
16					End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B4	COORDINATES:	DATE: 10/15/03	
ELEVATION: 8.31'	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
0					Dark Gray to Brown cmf SAND, little cmf Gravel, trace Silt, trace clay w/ Pieces of Concrete, Brick, metal, Rock				0.0
1									
2			75						
3					Pieces of wood - 3"				
4					Pieces of wood - 2"				
5					Green to Brown cmf SAND, little cmf Gravel, trace Silt & clay w/ Pieces of Rock				0.0
6			54		wood				
7					Black cmf SAND, little Silt and mf Gravel, trace clay w/ Pieces of Rock				GWL: 7.0' strong odor 9999 Oily
8									
9					w/ Pieces of Rock, wood,				
10			58		Black cmf SAND, little mf Gravel, trace Silt, w/ Pieces of wood, Brick etc				
11					w/ Pieces of Brick.				9999
12									

NOTES: Oil / H_2O shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B4	COORDINATES:	DATE: 10/15/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
13					Black cmf SAND, little cmf Gravel, trace silt & clay w/ Pieces of Rock, Brick, Wood	F			Oily
14			54		w/ Pieces of wood - 2"				9999
15					w/ Pieces of wood, Brick Rock etc	F			Oily
16					Pieces of Brick - 3" w/ Pieces of wood, Brick, Rock				
17					w/ Pieces of wood - 1"	F			Oily
18			73						
19					Black cmf SAND & GRAVEL trace Silt & Clay w/ Pieces of concrete, Rock, wood etc	F			9999 Oily
20					w/ concrete	F			500
21					Brown Organic SILT, with clay & decomposed wood	pt			0.0
22			75						
23									
24									

NOTES: 21.24' & 28.0' Sample collected for Inspection

SOIL BORING LOG

amec

PROJECT NUMBER: 276080000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST. B4	COORDINATES:	DATE: 10/15/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
25					Dark Gray silty CLAY w/ Pieces of decomposed wood	CL			
26			83			CL			
27									
28						CL			
					End of the Boring at 28.0'				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000		PROJECT NAME: Former General Motors, Sleepy Hollow, New York			
BORING NUMBER: SI-UST-B5		COORDINATES:		DATE: 10/14/03	
ELEVATION: 9.12'		GWL: Depth:	Date/Time:	DATE STARTED: 10/14/03	
ENGINEER/GEOLOGIST: Madhu Patel		Depth:	Date/Time:	DATE COMPLETED: 10/14/03	
DRILLING METHODS: Geoprob Rig				PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS: PID (ppm)
0					Dark Gray cmf SAND, little cmf Gravel, trace Silt & Pieces of Rock				0.0
1					Dark Brwn cmf SAND & Gravel, trace silty clay & Pieces of concrete, Brick	F			0.0
2			63						
3					Dark Gray cmf SAND, little cmf Gravel, trace Silt & Pieces of Rock, concrete	F			0.0
4									GWL- 4.5'
5									
6			75		Dark Gray & Green mf SAND, little Silt, trace mf Gravel	F			0.0
7					Black mf SAND, little Silt, trace clay	F			429 oily
8									oily
9					Black cmf SAND and GRAVEL, trace Silt & clay & Pieces of Rock, wood etc	F			0.0
10			75						oily
11					Black cmf SAND & GRAVEL, little Silt, trace clay & Pieces & wood, cinder etc	F			10000 oily
12									

NOTES: Refusal at 12.5'

Oil/H2O shake Test - performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B6	COORDINATES:	DATE: 10/14/03	
ELEVATION: 13.64'	GWL: Depth: Date/Time:	DATE STARTED: 10/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
0					Concrete slab				0.0
1					↑ O P E N ↓				
2			25						
3					Brown cmf SAND, little cmf Gravel, trace Silt w/ Pieces of Rock, wood etc	F			0.0
4									
5					Dark Brown cmf SAND, Some cmf Gravel, trace Silt & clay w/ Pieces of Rock, Asphalt, wood	F			0.0
6			38						
7									
8					w/ Wood, cinder, asphalt	F			0.0
9					Brown cmf SAND, little cmf Gravel, trace Silt & clay w/ Pieces of Rock	F			0.0
10			40						
11					Black & Brown cmf GRAVEL, little cmf Sand, trace Silt & clay w/ Pieces of Rock Concrete	F			0.0 GW2-10.0' Petroleum odor 10-12' - sheen
12									

NOTES: 0-0.8' - slab Oil/H_2O Shake Test - performed
1-3 - open

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-136	COORDINATES:	DATE: 10/14/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Black cmf SAND, little mf Gravel, trace silt & clay w/ Coal Ash, Rock, Brick.	F			500 Oily
14			75		Gray & Black cmf SAND, little mf Gravel & Silt w/ fiber. concrete	F			3100 Oily
15									
16					Dark Grey & Black cmf SAND, some silt & clay trace mf Gravel	F			3700 Oily
17					w/ Wood				200 Oily
18			69		Black cmf SAND, little mf Gravel, trace Silt w/ Wood, Rock	F			600 Oily
19									Oily
20					Dark Gray cmf SAND, little mf Gravel, trace silt & clay w/ pieces of Rock, Wood	F			
21					Dark Gray cmf SAND, little cmf Gravel, trace Silt & clay	F/SP			
22			71		Dark Gray mf SILT and CLAY, trace mf Sand	CL/ML			
23					Brown Organic SILT w/ decomposed wood.				
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000		PROJECT NAME: Former General Motors, Sleepy Hollow, New York	
BORING NUMBER: SI-UST-B6		COORDINATES:	DATE: 10/14/03
ELEVATION:		GWL: Depth: Date/Time:	DATE STARTED: 10/14/03
ENGINEER/GEOLOGIST: Madhu Patel		Depth: Date/Time:	DATE COMPLETED: 10/14/03
DRILLING METHODS: Geoprob Rig			PAGE: 3 OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
25					Brown Organic SILT w/ pieces of decomposed wood	pt			0.0
26			67						
27									
28					Dark Gray CLAY w/ Pieces of decomposed wood (trace)	CL pt			0.0
29									
30			67						
31									
32					End of the Boring at 32.0'				
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B6A	COORDINATES:	DATE: 10/14/03	
ELEVATION: 13.59'	GWL: Depth: Date/Time:	DATE STARTED: 10/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					0.8' - concrete slab				
1					open				
2			25		Brownish Yellow cmf SAND, little Silt, trace cmf Gravel w/ Pieces of Rock	F			0.0
3									
4					Dark Brown cmf SAND, little Silt, trace cmf Gravel	F			0.0
5					w/ Pieces of Rock				
6			79						
					Dark Brown cmf SAND, some Silt, trace clay & f	F			0.0
7					mf Gravel w/ Pieces of Rock				
8					Yellowish Brown cmf SAND, little Silt, trace clay, trace f Gravel	F			0.0
9									GWL-9.0
10			33						
					Dark Gray cmf SAND, little Silt, trace mf Gravel trace clay	F			0.0
11									
12									

NOTES: Oil/H_2O shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B6A	COORDINATES:	DATE: 10/14/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black & Dark Gray cmf SAND, little Silt, trace f Gravel, little clay & Pieces of Rock, wood	F			oily
14			48		Black cmf GRAVEL, little Silt, trace cmf Sand & Pieces of wood, coal not rock	F			238 oily
15									750 oily
16									
17					Black cmf SAND, little Silt, trace clay, trace mf Gravel	F			
18			32						
19					Black cmf SAND and GRAVEL, trace Silt & Pieces of Coal	F			70 oily
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-7	COORDINATES:	DATE: 10 | 14 | 03	
ELEVATION: 13.70	GWL: Depth: Date/Time:	DATE STARTED: 10 | 14 | 03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10 | 14 | 03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Dark Brown cmf SAND, little Silt, trace mf Gravel w pieces of Brick, rock etc	F			0.0
2			54		Dark Gray SILT, little mf Sand, trace clay w pieces of rock, Brick, coal Ash	F			0.0
3					Dark Gray mf SAND, some Silt, trace clay w pieces of Brick, wood, Rock, stell	F			0.0
4					w pieces of Concrete Dark Gray				
5			100		Brownish Yellow cmf SAND, little Silt, trace clay w pieces of Rock	F			0.0
6					Brown cmf SAND and GRAVEL				
7					Refusal at 5.5'				
8									
9									
10									
11									
12									

NOTES: Oil/H_2O Shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276032000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B7A	COORDINATES:	DATE: 10/14/03	
ELEVATION: 13.59	GWL: Depth: Date/Time:	DATE STARTED: 10/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
1					Brown cmf SAND, little Silt, trace clay & mf Gravel & pieces of Rock, wood etc				0.0
2			65		Dark Gray SILT, little mf Sand, trace f Gravel & Pieces of Wood, shell				0.0
3									
4					Brown cmf SAND, little Silt & pieces of concrete, gravel				0.0
			100						
5					Refusal at 5.5'				
6									
7									
8									
9									
10									
11									
12									

NOTES: Oil/H_2O Shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276032000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B7B	COORDINATES:	DATE: 10/14/03	
ELEVATION: 13.66	GWL: Depth: Date/Time:	DATE STARTED: 10/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID (ppm)
1					Dark Brown cmf SAND, little mf Gravel, trace clay & pieces of Brick, Coal Ash wood.	F			0.0
2					Dark Gray mf SAND and SILT, trace cmf Gravel & pieces of Brick, wood, Rock	F			0.0
			54						
3									
4					Brown cmf SAND, little mf Gravel & pieces of Rock, Brick wood, concrete	F			0.0
5			80		White & Brown cmf SAND & GRAVEL & pieces of Rock, concr.	F			0.0
6					Refusal at 5.3'				
7									
8									
9									
10									
11									
12									

NOTES: Oil/H_2O Shake Test. Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B9	COORDINATES:	DATE: 10/15/03	
ELEVATION: 9.40	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
0					Dark Gray cmf SAND & GRAVEL, little Silt w/ Pieces of Rock, Brick, concrete metal	F			0.0
1					w/ Pieces of Concrete				
2			75						
3					w/ Pieces of Rock				
4					Brown & Green cmf SAND, little cmf Gravel, trace Silt w/ Pieces of Rock, Wood Concrete	F			0.0
5									
6			67		Dark Gray cmf SAND, little Silt, trace mf Gravel w/ Pieces of shell	F			0.0 GWL-6.5'
7									
8					Dark Gray cmf SAND, little Silt, trace mf Gravel	SP			0.0
9									
10									Sheen
11					Dark Gray SILT and CLAY, little cmf Sand, trace f Gravel	SP			0.0
12									

NOTES: Oil / H2O shake Test - Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B9	COORDINATES:	DATE: 10/15/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Dark Gray cmf SILT & CLAY, trace mf Sand	SP			PID (ppm) 0.0
13					Varved clay (alternat bands of Silt and clay	CL			0.0
14			63						sheen
15					Dark Gray mf SAND, trace clay & silt (alternat bands)	SM			0.0
16									
17					Brown Organic SILT w pieces of decomposed wood.	Pt	Pt		0.0
18			79						
19						Pt/CL	Pt/CL		
20					Dark Gray CLAY	CL	CL		
					End of Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B10	COORDINATES:	DATE: 10/15/03	
ELEVATION: 8.82'	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
1					Dark Gray cmf SAND & GRAVEL, trace Silt & clay w/ Pieces of Concrete, wood etc.	F			0.0
2			52		w/ Pieces of Brick - 2"				0.0
3					Dark Gray & Brown cmf SAND, little Silt, trace f Gravel w/ Pieces of Rock	F			0.0
4									
5					Dark Gray & Brown cmf SAND, little Silt, trace clay w/ Pieces of Rock, gravel, Brick.	F			0.0
6			69		Black cmf SAND, little Silt, trace clay	P			GWL - 6.5' 0.0
7					Dark Grey to Grey cmf SAND, little f Gravel, trace clay	SP			Sheen at 7.0' 0.0
8									
9									
10			75						
11					Grey CLAY & SILT, trace f Sand w/ Pieces of shell fr.	ML/CL			
12									

NOTES: Oil / H_2O Shake Test. Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 27662000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B10	COORDINATES:	DATE: 10/15/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/15/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/15/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (PPM))
13					Dark Gray SILT & CLAY, trace f Sand	ML/CL			0.0
14					alternate bands of silt/clay				
15					Black				
16					Dark Gray SILT & CLAY, trace f Sand	ML/CL			0.0
17					Gray CLAY & SILT trace f Sand				0.0
18					Brown Organic SILT, w/ Pieces of decomposed wood.	Pt			0.0
19					Dark Gray cmf Sand, little silt with wood decomp	CL			0.0
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-11	COORDINATES:	DATE: 10/16/03	
ELEVATION: 8.80'	GWL: Depth: Date/Time:	DATE STARTED: 10/16/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/16/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
1					Dark Gray cmf SAND, little Silt, trace clay & mf Gravel & pieces of Concrete	F			0.0
2			67		Dark Gray cmf SAND, little Silt and mf Gravel & pieces of Rock, wood, Brick	F			0.0
3									
4					Dark Gray cmf SAND and GRAVEL, trace Silt & clay & piece of Rock, wood	F			0.0
5					Dark Gray cmf SAND, little Silt, trace clay & pieces of Rock, wood etc	F			0.0
6			69		Brown to Dark Gray cmf SAND, little Silt, trace clay	F			GSL-6.6' 0.0
7									
8					Dark Gray cmf SAND, little Silt, trace mf Gravel	F			0.0
9					Dark Gray cmf SAND, little Silt & clay, trace f Gravel	ML			
10			88		Dark Gray CLAY & SILT alternate layers of silt/clay/sand.				0.0
11									
12									

NOTES: Oil/H2O shake Test. Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276080000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B11	COORDINATES:	DATE: 10/16/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/16/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/16/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
13					Dark Gray Silty CLAY, trace f Sand (alternat bands of silt/clay)	CL			0.0
14			79		Dark Gray Silty CLAY, trace f Sand	ML			0.0
15									
16									
17					Dark Gray Silty CLAY & decomposed wood	CL			0.0
18			88						
19						CL			
20					End of H2O Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-12	COORDINATES:	DATE: 10/16/03	
ELEVATION: 8.18'	GWL: Depth: Date/Time:	DATE STARTED: 10/16/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/16/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID ppm
0					Dark Brown cmf SAND, little Silt, trace clay & pieces of wood, Rock & concrete	F			0.0
1					& Rock				
2			69		wood & Brick				
3					Dark Gray & Brown cmf SAND, little cmf Gravel, trace Silt & clay	F			0.0
4					Dark Brown & Gray cmf SAND, little cmf Gravel, trace clay & Silt & pieces of Rock, wood	F			0.0 GWL-4.5'
5									
6			63		Dark Gray cmf SAND, little Silt, trace clay & pieces of Rock	F			9999 C7.0' oily
7									
8					Dark Gray & Black cmf SAND and GRAVEL, trace Silt & clay & pieces of Rock wood etc	F			432 oily
9									
10			67						
11					Black cmf SAND, some mf Gravel, trace Silt & clay & pieces of Rock, wood	F			600 oily
12									

12.5'

NOTES: Refusal at 12.5'

Oil/H_2O Shake Test - Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 36 13	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-~~12~~ 4	COORDINATES:	DATE: 10/16/03	
ELEVATION: 7.6593'	GWL: Depth: Date/Time:	DATE STARTED: 10/16/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/16/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Gray cmf SAND, little mf Gravel & pieces of Rock, cinder & pieces of concrete & pieces of Rock	F			0.0
2			50		Black cmf SAND & GRAVEL trace Silt & clay & pieces of wood, Rock.	F			0.0
3									
4					Dark Gray cmf SAND & GRAVEL, trace Silt & clay & pieces of wood	F			0.0
5									GWL. 5.5'
6			42		w/ pieces of Rock, concrete cmf Gravel cmf Sand	F			0.0
7									
8					Pieces of wood	F			
9			38		Pieces of Brick, Rock	F			8.0 to 9.0' Oily 1000
10					Gray & Brown cmf SAND, little Silt, trace clay	F			
11					Refusal at 10.5'				
12									

NOTES: Oil/H_2O Shake Test - Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-14	COORDINATES:	DATE: 10/16/03	
ELEVATION: 7.65'	GWL: Depth: Date/Time:	DATE STARTED: 10/16/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/16/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
1					Dark Brown cmf SAND, little Silt, trace clay w/ Pieces of Rock, wood	F			0.0
2					w/ Pieces of Rock				
3			50		Dark Gray & Brown cmf SAND, little silt, trace clay w/ Pieces of Rock.	F			0.0
4					w/ Piece of concrete / Rock				
5					Dark Gray cmf SAND, some mf Gravel, trace silt w/ Pieces of Rock, wood Coal Ash.	F			0.0 GWL. 4.5
6			69		Gray cmf SAND, some clay, trace silt+clay w/ Pieces of Rock, wood concrete	F			0.0
7					Dark Gray to Black cmf SAND, little silt, trace clay w/ Piece of wood. Coal ash.	F			0.0
8					Dark Gray cmf SAND, little f Gravel, trace silt				
9					Gray mf SAND, little silt- w/ Pieces of Rock	F			0.0
10			40		Dark Gray ↓ w/ Piece of Rock.				
11					greey mf SAND, little silty Rock, wood	F			0.0
12									

NOTES: Oil/H2O Shake Test. Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-14 (36)	COORDINATES:	DATE: 10/16/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/16/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/16/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID CPPM
13					Black & Dark Gray cmf SAND, little mf Gravel, trace clay w/ piece of wood, Black el.	F			0.0
14			25		Dark Gray & Black cmf SAND, little mf Gravel, trace Silt & clay	F			0.0
15									
16					Dark Gray cmf SAND, little Silt, trace cmf Gravel w/ Piece of wood	F			0.0
17									
18			67			SP			
19					Dark Gray cmf SAND, little mf Gravel, trace Silt & clay				0.0
20					Gray cmf SAND and GRAVEL trace Silt & clay	SP			
21					decrease w/ Piece of wood	SP			
22			63						
23					Dark Gray cmf SAND, little cmf Gravel, trace Silt & clay	SP			0.0
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B14	COORDINATES:	DATE: 10/16/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/16/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/16/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID CRUD)
25						SP			
					Brown Organic SILT, little clay clay pieces of decomposed wood.				0.0
26			61			pt			
27									
28									
29									
30			88			pt			
31									
32					End of the Boring at 32.0				
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-15	COORDINATES:	DATE: 10/17/03	
ELEVATION: 8-17'	GWL: Depth: Date/Time:	DATE STARTED: 10/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (ppm))
0					Dark Brown cmf SAND, little cmf Gravel, trace Silt Asphalt	F			0.0
1					↓ Yellow & Brown cmf SAND, little cmf Gravel & pieces of Rock	F			0.0
2			52		& concrete & Rock				
3					↓ Black cmf SAND, little cmf Gravel, trace Silt & clay & Coal Ash	F			0.0
4					Brown & Green cmf SAND, little Silt, trace f Gravel				0.0
5					Black & Red cmf SAND, little cmf Gravel, trace Silt & clay & pieces of Rock, wood.	F			0.0
6			63		Brick, white shell				GW-6-0'
7					& pieces of wood				
8					Black cmf SAND, little Silt & Gra	F			0.0
9					Black cmf SAND & GRAVEL little Silt & clay & pieces of Rock, wood.	F			8.6 - 18.6' 925 0.14
10			67		↓				1500
11					Pale green cmf SAND, little Silt & clay, trace f Gravel	F			84 ↓
12									

NOTES: Oil / H2O Shake Test. Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-15	COORDINATES:	DATE: 10/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
13					Dark Gray cmf SAND little Silt, trace cmf Gravel w/ Piece of Rock, Brick				oily
14			52						300
15					Pale green cmf SAND, little Silt, trace clay, trace f Gravel				oily
16					Brown Organic SILT with clay & decomp wood	pt/cl			
17									
18			50						
19					clay & decomposed wood	cl/pt			
20									
21									
22			67						
23									
24									

NOTES: End of Boring at 24.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SJ-UST-B16	COORDINATES:	DATE: 10/17/03	
ELEVATION: 7.42'	GWL: Depth: Date/Time:	DATE STARTED: 10/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Data/Time:	DATE COMPLETED: 10/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
0					Dark Gray & Black cmf SAND, little cmf Gravel & Piece of Rock, Coal etc	F			0.0
1					& Piece of Concrete, Rock				0.0
2			63		Brown				
3					Black & coal Ash				0.0
4					↓ Dark Gray cmf SAND	F			
5					↓				
6			73		Brown cmf SAND, little Silt, trace clay, trace f Gravel	F			0.0
7					Dark Gray & Pale green cmf SAND, little f Gravel trace Silt & wood				0.0
8					Brown cmf SAND, some Silt & Pieces of Rock	F			0.0
9					↓				
10			67		Gray cmf SAND, little Silt trace clay & Piece of Rock & Piece of wood 4"	F			0.0 10-11.5' oily
11					↓				
12					↓	CL			

NOTES: Oil / H2O shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-16	COORDINATES:	DATE: 10/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Dark Gray CLAY	CL			0.0
14			79						
15									
16									
17					Black cmf SAND, trace f Gravel, trace Silt	CL			0.0
18			83		clay CLAY				
19					w/ piece of Rock, Gravel.	CL			
20					w/ my sand / CLAY				0.0
21									
22			67			CL			
23					Brown Organic SILT w/ Piece of decomposed wood	Pt			0.0
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000		PROJECT NAME: Former General Motors, Sleepy Hollow, New York	
BORING NUMBER: SI-UST-B-17		COORDINATES:	DATE: 10 / 17 / 03
ELEVATION: 7.65'		GWL: Depth: Date/Time:	DATE STARTED: 10 / 17 / 03
ENGINEER/GEOLOGIST: Madhu Patel		Depth: Date/Time:	DATE COMPLETED: 10 / 17 / 03
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
1					Gray & Brown cmf SAND, little mf Gravel & piece of Rock	F			0.0
					Orange cmf SAND, little mf Gravel				
2									0.0
			83		Yellow & Brown cmf SAND, little silt & clay & piece of Rock	F			
3									
					Black & White cmf SAND, little mf Gravel, trace silt & Brick, wood	F			0.0
4									
5									
					Black cmf SAND, little cmf Gravel, trace silt & clay & piece of Rock Brick	F			0.0
6			73						
7					Dark Brown cmf SAND				
					Dark Gray cmf SAND, little cmf Gravel, trace Silt	F			0.0
8									7.5' - 9.5'
9									Oily
					Dark Gray CLAY				
10			79		Collected bonds of Silt / clay	CL			
11									0.0
12									

NOTES: Oil / H_2O shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-17	COORDINATES:	DATE: 10/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS (PID (ppm))
13					Dark Gray CLAY SAND w/ decomposed wood	SP/Pt			0.0
					Dark Gray clay SAND, little Silt, trace clay Gravel				0.0
14			83		w/ decomposed wood				
15					Dark Gray CLAY, trace f. Sand w/ decomposed wood	CL/Pt			0.0
16									
17					Dark Gray CLAY w/ Brown Silt & decomposed wood	CL/Pt			0.0
18			79						
19						CL/Pt			
20					End of Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-18	COORDINATES:	DATE: 10/17/13	
ELEVATION: 7-81'	GWL: Depth: Date/Time:	DATE STARTED: 10/17/13	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/17/13	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
1					Dark Gray cmf SAND, little mf Gravel, trace clay & Silt & piece of Rock, wood Concrete	F			0.0
2			54		Yellowish Brown cmf SAND, little cmf Gravel. trace Silt & piece of concrete wood	F			0.0
3									
4					Brownish Yellow cmf SAND, little Silt, trace clay & Piece of Rock, concrete	F			0.0
5									
6			60		Black coal Ash & Rock, gravel.	F			GWL-5.5'
7									
8					& cinder, coal ash Pale greey & Brown cmf SAND, little Silt, trace clay Rock, wood	F			0.0
9									
10			85		coal Ash Pale greey cmf SAND, little Silt, trace clay	F			0.0
11					coal Ash				
12					Pale greey Silty Sand, trace clay & Pcs of Rock wood	F			0.0

NOTES: Oil / H2O shake Test. Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-18	COORDINATES:	DATE: 10/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Dark Gray cmf SAND, some mf Gravel, trace Silt w/ Pieces of Rock Wood	F			0.0
14			25						
15									
16					Dark Gray CLAY, little Silt				0.0
17					Dark Gray cmf SAND, little f Gravel, trace Silt	SP/ PT			0.0
18			81		w/ Pieces of decomposed Wood	SP/ PT			Organic odor
19					Gray & Brown cmf SAND, trace Silt w/ Pieces of decay Wood				0.0
20					CLAY	PT			
21									Organic odor
22			88						
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-18	COORDINATES:	DATE: 10/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
25					Brown Organic SILT w/ Pieces of decomposed wood	PT			PID (ppm) 0.0
26			100						
27						PT			
28					Dark Gray CLAY w/ Pieces of decomposed wood	CL			0.0
29									
30			100						
31									
32									
33						CL			
34			88						
35									
36									

NOTES: End of the Boring at 36.0'

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B19	COORDINATES:		DATE:	10/20/03
ELEVATION / DATUM:	grade	GWL: Depth: 6.0	Date/Time:	TIME STARTED:	10:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.2 ft. millings				
					0.2-1.0 ft. asphalt				
1									
2			2.3		1.0-4.0 ft. FILL crushed stone up to 1 1/2" mixed w./ dk. brown to black f-m-c gravelly sand, moist		0		
3							0		
4							0		
					4.0-4.8 ft. FILL (same as above)		0		
5					4.8-8.0 ft. FILL coal ash, black, saturated at 6.0 ft.		0		
6			2.2				0		
7							0		
8	☒								Archive sample at 7.5-8.0 ft.
9					8.0-10.0 ft. FILL (same as above), saturated, no odor.				
10			3.0						o/w and shake test negative
11					10.0-12.0 FILL med. brown to lt. gray or black f. SAND, tr. m. sand, saturated.				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B19	COORDINATES:		DATE:	10/20/03
ELEVATION / DATUM:	grade	GWL: Depth: 6.0	Date/Time:	TIME STARTED:	10:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.6		12.0-16.0 ft. FILL lt. gray to black f. SAND, mixed w./ wood, glass, rubber, gravel, saturated, anaerobic odor (but no petroleum odor or sheen).		0 0 0 0 0		o/w shake test and headspace negative
16			3.5		16.0-20.0 ft. lt. gray f-m-c SAND, little gravel, (subangular to rounded; dominatly quartz with tr. garnet), saturated.		0 0 0 0 0 0		
20			3.1		20.0-23.0 ft. same as above.		0 0 0 0		
23					23.0-24.0 ft. PEAT, tr. clay (~90% organic matter), moist.		0-19		Sulfide odor when freshly broken.

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B19	COORDINATES:		DATE:	10/20/03
ELEVATION / DATUM:	grade	GWL: Depth: 6.0	Date/Time:	TIME STARTED:	10:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 3	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
25					24.0-28.0 ft. PEAT, tr. clay, stiff (~90% organic matter), moist,		5-10		Strong sulfide odor and high PID readings when freshly broken
26							130+		
27							130+		
28					28.0-32.0 ft. dk. gray CLAY, tr. organic matter (leaves & grass), stiff, moist		30-90		sulfide odor when broken
29									
30									
31									
32					32.0-36.0 ft. same as above				
33							25-30		
34							25-30		
35									
36									

NOTES:

E.O.B. at 36.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-20	COORDINATES:		DATE:	10/20/03
ELEVATION / DATUM:	Slab on Grade	GWL: Depth: ~7 ft	Date/Time:	TIME STARTED:	14:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-1.0 ft concrete slab				
2			1.3		1.0-3.0 ft. FILL m.brown to black crushed stone & f-m-c SAND, moist.		0		poor recovery
3							0		
4					3.0-4.0 ft. FILL Black coal and coal ash w./f-m-c sand & crushed stone, dry		0		
5			0.0		4.0-8.0 ft. (no recovery) groundwater at ~ 7-8 ft.				lower part of sampler wet
6									
7									
8			2.0		8.0-11.5 ft. FILL brownish-gray f. SAND, tr. silt, tr. clay, tr. shells, liquid, saturated.		0		
9							0		
10									
11							0		
12					11.5-12.0 ft FILL black f-m-c SAND & gravel, saturated		100-1100		oil staining & strong odor at 11.5 feet

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-20	COORDINATES:		DATE:	10/20/03
ELEVATION / DATUM:	Slab on Grade	GWL: Depth: ~7 ft	Date/Time:	TIME STARTED:	14:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-13.5 ft. FILL black (oil stained) coal ash, crushed stone, f-m-c sand, saturated.			100-200	oil staining & strong petroleum odor
14			3.0		13.5-16.0 ft. lt. gray to brown f. sand, uniform, well sorted, stiff, saturated.			500-900	no visible staining or sheen but high PID readings
15								300-600	
16					16.0-19.0 ft dk. gray to black f. SAND, grading into sandy SILT locally, saturated		0		No oil staining, but black horizons that may indicate former presence of oil
17							0		
18			2.6				0		
19					19.0-20.0 ft. dk. gray f-m SAND, saturated, anaerobic odor (but no evidence of petroleum)		5-10		
20					**E.O.B at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B21	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:	at grade (millings)	GWL: Depth: 8.0	Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			2.6		0-4.0ft. FILL crushed stone and concrete fragments mixed with m. to dk. brown silty sand, moist.		0		
2							0		
3							0		
4							0		
5			3.2		4.0-4.5 ft. FILL (same as above) 4.5-8.0 ft. FILL black coal ash, tr. crushed stone, moist, saturated at 8.0 feet.		0		
6							0		
7							0		
8							0		
9			2.5		8.0-12.0 ft. FILL coal ash and partially burned coal, saturated.		0		o/w test negative and and h/s analysis = 0
10							0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY				
BORING NUMBER: SI-UST-B21	COORDINATES:			DATE:	10/21/03
ELEVATION / DATUM: at grade (millings)	GWL: Depth: 8.0	Date/Time:		TIME STARTED:	9:40
ENGINEER/GEOLOGIST: D. Mackie	Depth:	Date/Time:		TIME COMPLETED:	10:20
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler				PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			3.0		12.0-14.0 ft. FILL coal ash (similar to above), heavily oil stained w./ strong petroleum odor and sheen.		50-150 50-150		
14					14.0-16.0 ft. rusty brown to gray f. SAND, saturated		20-30 1-3		layers of oil staining observed
16			~2		16.0-20.0 ft. dk. gray to black f. SAND, stiff, saturated		20-30 20-30 20-30		
20			3.5		20.0-24.0 ft dk. gray f-m-c SAND, tr. gravel, saturated.		0 0 0 0		slight anaerobic odor (probably <u>not</u> oil related); roots in tip of sampler Macrocore liner split and removed in pieces (sample recovery estimated).
24									

NOTES:

E.O.B. at 24.0 feet

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-22	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:	on grade	GWL: Depth: 7.5	Date/Time:	TIME STARTED:	10:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	12:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			2.9		0-4.0 ft. FILL crushed stone & concrete fragments in matrix of brown silty f-m sand, moist		0		
2							0		
3							0		
4							0		
5					4.0-5.0 ft. FILL (same as above) dry.		0		
6			3.0		5.0-7.0 ft. FILL med. brown f-m SAND, tr. shells, moist.		0		
7							0		
8					7.0-8.0 ft. FILL black coal ash, granular, tr. gravel, tr. shells, wet at 7.5 ft.		0		groundwater at 7.5 feet
9					8.0-12.0 ft. FILL black coal ash, saturated		0		slight oily sheen in localized horizons,
10			3.2				0		
11							0		
12							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-22	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:	on grade	GWL: Depth: 7.5	Date/Time:	TIME STARTED:	10:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	12:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-14.0 ft. FILL black coal ash, compact, moist.		0		no sheen or odor
							0		
14			2.2		14.0-16.0 ft. FILL dk. gray f. SAND, saturated (wood fragments in tip of sampler)		0		o/w shake test and head-space negative
15							0		
16					16.0-18.5 ft. FILL black coal ash, wood fragments, tr. steel wire, saturated.		5-13		black oil staining and sheen from 16.0 to 18.5 ft.; h/s=13 ppm max.; slight odor
17							0		
18			2.1				0		
19					18.5-20.0 ft. FILL dk. gray f-m SAND, tr. wood fragments, saturated		0		peat in last 1" of core
20					20.0-24.0 ft. dk. brown PEAT, tr. clay, w./ macroscopic plant rootlets, moist		0		storng sulfide odor when freshly broken
21							0		
22			4.0				0		
23							12-30		PID reading from marsh gases
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-22	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:	on grade	GWL: Depth: 7.5	Date/Time:	TIME STARTED:	10:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	12:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 3	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
25			4.0		24.0-26.0 ft. dk. brown PEAT, tr, clay (clay content inmcreasing w./ depth), moist		20-30 10-20		sulfide odor
26					26.0-28.0 ft. dk. gray CLAY, little organic material (roots & grass), (grades into nearly pure clay at 28 feet),moist.		1-2		
28					**E.O.B. at 28.0 feet**				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B23	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:	on grade	GWL: Depth: 7.0	Date/Time:	TIME STARTED:	13:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
0					0-3.5 ft. FILL crushed stone & concrete fragments mixed w./m brown silty f. sand, moist		0		
1							0		
2			2.0				0		
3							0		
4					3.5-4.0 ft. FILL black coal ash, moist		0		
					4.0-8.0 ft. FILL black coal ash, granular, some crushed stone, moist (saturated at 7.0 feet)		0		groundwater at 7.0 feet
5							0		
6			2.4				0		
7							0		
8					8.0-12.0 ft. FILL black coal ash, brick fragments, gravel, and m-c sand, saturated.		0		no petroleum sheen or odor noted.
9							0		
10			2.7				0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B23	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:	on grade	GWL: Depth: 7.0	Date/Time:	TIME STARTED:	13:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:50
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-16.0 ft. FILL black oil-stained coal ash mixed w./ crushed stone, saturated		50-60		oily sheen and light oil staining, weak petroleum odor; wood in drive shoe w./ piece of brick
14			2.4				40-50		
15									
16									
16					16.0-20.0 ft. dk. gray to black f. SAND, stiff, saturated.		0		no evidence of petroleum observed
17							0		
18			2.5				0		
19							0		
20									
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B24	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:		GWL: Depth: 7.5	Date/Time:	TIME STARTED:	14:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:40
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			3.2		0-4.0 ft. FILL crushed stone & concrete fragments, moist.		0		
2							0		
3							0		
4							0		
5			2.0		4.0-6.0 ft. FILL (same as above).		0		
6							0		
7					6.0-7.5 ft. FILL med. brown f. SAND, little m. sand, tr. oyster shells, moist.		0		groundwater at 7.5 feet
8					7.5-8.0 ft. FILL black coal ash, granular, saturated.				
9			2.8		8.0-12.0 ft. FILL black coal ash, granular, saturated.		0		no petroleum sheen or odor
10							0		
11							0		
12							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B24	COORDINATES:	DATE:	10/21/03
ELEVATION / DATUM:	GWL: Depth: 7.5 Date/Time:	TIME STARTED:	14:00
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	15:40
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13				### ### ### ### ### ###	12.0-13.0 ft. I11 (same as above)		0		o/w test negative
14			2.6		13.0-16.0 ft. dk. gray to black very f. SAND, stiff, saturated.		0 0 0		
16					16.0-20.0 ft. dk. gray very f. SAND, saturated.		0		o/w shake test and h/s negative
17			3.2				0 0 0		
20					20.0-23.0 ft. (same as above)		0		
21			4.0				0 0		
23					23.0-24.0 ft. dk. gray sandy SILT, some clay, stiff, saturated.		0		slight anaerobic odor
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B24	COORDINATES:		DATE:	10/21/03
ELEVATION / DATUM:		GWL: Depth: 7.5	Date/Time:	TIME STARTED:	14:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:40
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 3	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
25			4.0		24.0-26.0 ft. dk. gray f-m SAND. tr. c. sand, tr. gravel, saturated		0 0		
26					26.0-28.0 ft. dk. brown PEAT, moist		20-30		strong sulfide odor when broken
27							5-10		
28					28.0-30.0 ft. dk. brown PEAT, some clay, moist.		25-50		
29			4.0						
30					30.0-32.0 ft. dk. gray CLAY, tr, organic matter, moist.		25-50		gradational contact between peat and clay units
31									
32					**E.O.B. at 32.0 feet**				
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B25	COORDINATES:	DATE:	10/22/03
ELEVATION / DATUM: at grade	GWL: Depth: 6.5 ft. Date/Time:	TIME STARTED:	7:32
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	8:30
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			2.7		0-4.0 ft. FILL m. brown to black crushed stone and gravekly f-m-c sand, tr. coal ash, moist		0 0 0 0		
4					4.0-4.5 ft. FILL (same as above)		0		
5			3.4		4.5-7.5 ft. FILL m. brown f-m SAND, tr. oyster shells, tr. c. sand, moist to 6.5 ft. (saturated below)		0 0 0		
8					7.5-8.0 ft. FILL dk. gray to black f. SAND & coal ash		0		
9			3.1		8.0-10.5 ft. FILL black coarse-grained coal ash, saturated.		100-150 200-350 20-30		oily sheen and strong petroleum odor.
11					10.5-12.0 ft. dk. gray to black f. SAND, stiff, saturated.		2-5		black oil staining to 11.5 ft.

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B25	COORDINATES:		DATE:	10/22/03
ELEVATION / DATUM:	at grade	GWL: Depth: 6.5 ft.	Date/Time:	TIME STARTED:	7:32
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-16.0 ft. dk. gray to olive gray f. SAND, stiff, uniform, saturated.		0		
14			3.2				0		
15							0		
16							0		black oil staining at tip of sampler.
					16.0-16.3 ft. black f. sand, saturated		0		oil stain & sheen 16.0-16.3 ft
17					16.3-18.5 ft. dk. gray f. SAND, grading into f-m-c SAND, tr. gravel, saturated.		0		
18			4.0				0		
19					18.5-20.0 ft. dk. brown PEAT,moist		20-70		sulfide odor when broken.
							20-30		
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B26	COORDINATES:	DATE:	10/22/03
ELEVATION / DATUM:	GWL: Depth: 6.0 ft. Date/Time:	TIME STARTED:	8:50
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	9:40
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			2.3		0-4.0 ft. FILL dk. brown to black f-m-c SAND, some crushed stone, tr. coal ash, moist.		0		
2							0		
3							0		
4							0		
5					4.0-5.6 ft. FILL (same as above)		0		
6			2.7		5.6-7.5 ft. FILL m. to orange brown f-m SAND, tr. c. sand, tr. brick fragmnents, saturated at 6.0 feet		0		groundwater at 6.0 feet
7							0		
8					7.5-8.0 ft. FILL dk gray-brown CLAY, stiff, moist.		0		
9			2.5		8.0-12.0 ft. FILL dk. gray to black coal ash, some silt & clay, saturated.		10-15		
10							500-1,800		oily sheen at 10-11 ft. with petroleum odor; max. PID at 10-11 ft.
11									
12							20-40		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B26	COORDINATES:		DATE:	10/22/03
ELEVATION / DATUM:		GWL: Depth: 6.0 ft.	Date/Time:	TIME STARTED:	8:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:40
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			<1 over 2'		12.0-14.0 ft. black clayey SILT, liquid, slight sheen.		0 0		poor recovery
14					**E.O.B. at 14.0 feet (refusal)**				
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-27	COORDINATES:	DATE: 10/22/03	
ELEVATION: 8.90'	GWL: Depth: Date/Time:	DATE STARTED: 10/22/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/22/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Dark Gray cmf SAND and cmf Gravel, trace Silt & clay w/ Pieces of Rock wood.	F			PID (ppm) 0.0
2			58		w/ Pieces of Rock				
4					Dark Gray cmf SAND	F			0.6
5					Brown cmf SAND, some Silt, trace clay, trace f Gravel w/ Pieces of Rock	F			0.0
6			65						
7					Gray CLAY, little Silt/sandy	F			
8					w/ Pieces of wood				
9					Dark Gray CLAY, trace Silt	F			
10			73						9-12' silty
					Coal Ash / cinder				SOIL silty
11						F			
12									0.1y

NOTES: Oil / H_2O - Shake Test - Performed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-27	**COORDINATES:**	**DATE:** 10/22/03	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 10/22/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 10/22/03	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Dark Gray cmf SAND, little Silt, trace clay & Piecing Rock, wood.	F			10 silty
14			79		Dark Gray CLAY, some cmf Sand, little Silt	CL SP			0.0
15									
16					Dark Gray cmf SAND, trace clay, trace of Gravel trace Silt				0.0
17									
18			88		Gray SILT & CLAY, little mf Sand & Piecing wood Shell				0.0
19					Organic Silty CLAY & decayed wood	PT			
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B28	COORDINATES:		DATE:	10/22/03
ELEVATION / DATUM:	at grade	GWL: Depth:	6.0 ft. Date/Time:	TIME STARTED:	11:50
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			2.0		0-3.5 ft. FILL m. brown silty SAND, some crushed stone & concrete fragments, moist		0		
2							0		
3							0		
4							0		
					4.0-4.3 ft. FILL (same as above)		0		
5			3.1		4.3-7.0 ft. FILL m. brown f. SAND, tr. shells, moist to 6 ft. (saturated below)		0		
6							0		
7					7.0-7.6 ft. dk. Gray CLAY, stiff, plastic wet.		0		
					7.6-8.0 ft. dk. gray f-m SAND, tr. shells, saturated				shells are <1 cm wide (bivalves); could be former bay deposits.
8					8.0-10.7 ft. dk. gray f-m SAND, tr. shells, coarsening with depth (then f. sand at base).		0		
9							0		
10			3.7				0		
11					10.7-11.8 ft. dk. gray clayey SILT, stiff, uniform, wet		0		
12					11.8-12.0 ft. dk. gray f-m SAND, tr. shells, saturated		0		1-8 mm bivalve shells

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B28	COORDINATES:	DATE:	10/22/03
ELEVATION / DATUM: at grade	GWL: Depth: 6.0 ft. Date/Time:	TIME STARTED:	11:50
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					12.0-12.5 ft. dk. gray f-m SAND, tr. shells, saturated		0		
13					12.5-13.5 ft. dk. gray, silty CLAY, laminated, stiff, plastic, wet.		0		
			4.0		13.5-14.0 ft. dk gray f-m SAND, tr. shells, saturated				
14					14.0-15.2 ft. dk. gray to black clayey SILT, stiff, plastic, laminated, wet.		0		barely noticable sheen with o/w test (probably not petroleum related)
15									
					15.2-16.1 ft. dk. gray f-m SAND, saturated		0		
16					16.1-18.0 ft. dk. gray sandy SILT, tr, clay, saturated		0		
17							0		
18			3.3						
					18.0-19.0 ft. dk. gray silty f. SAND, tr. clay, stiff.		0		
19					19.0-20.0 ft. dk. gray CLAY, tr. f. sand, tr. plant remains, moist.		0		
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

Note: Jim Moras of NYSDEC observed the soil cores from 0-16 ft and agreed that the results can be used to delineate the limit of oil (witnessed o/w shake test).

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B29	COORDINATES:	DATE:	10/22/03
ELEVATION / DATUM: at grade	GWL: Depth: ~8 ft Date/Time:	TIME STARTED:	12:55
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	14:00
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
0					0-3.0 ft. FILL dk. brown f-m-c SAND & crushed stone, tr. coal ash, moist		0		
1									
2			2.1				0		
3					3.0-4.0 ft. FILL black coal ash (m-c sand texture), moist		0		
4					4.0-5.0 ft. FILL (same as above)		0		
5					5.0-7.7 ft. FILL med. brown clayey f-m-c SAND, some gravel, moist		0		
6			3.2				0		
7							0		
8					7.7-8.0 ft. black CLAY, moist		100-300		*oil staining & odor*
9					8.0-10.0 ft. dk. gray f. SAND, liquid, saturated		0-5		
10			3.2						
11					10.0-12.0 ft. dk. gray silty CLAY, little f. sand, saturated		10-45		
12							5-10		
							0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B29	COORDINATES:		DATE:	10/22/03
ELEVATION / DATUM:	at grade	GWL: Depth: ~8 ft	Date/Time:	TIME STARTED:	12:55
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			3.0		12.0-15.7 ft. dk. gray f. silty SAND (grades into sandy SILT w./ depth), stiff, saturated.		0 0 0 0		
16					15.7-16.0 ft. black f. SAND, saturated				anaerobic odor
17			3.5		16.0-19.5 ft. dk. gray silty CLAY, stiff.		0 0 0 0		
20					19.5-20.0 ft. dk. gray CLAY w. organic matter, moist				
					E.O.B. at 20.0 feet				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B30	COORDINATES:		DATE:	10/23/03
ELEVATION / DATUM:	raised slab	GWL: Depth: 9 ft	Date/Time:	TIME STARTED:	9:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
1				VOID	0.6-1.6 ft. (void)				
2			1.5		1.6-4.0 ft. FILL m. brown gravely SAND, moist		0		
3							0		
4					4.0-4.5 ft. FILL (same as above)		0		
5					4.5-5.4 ft. FILL m. brn. SILT, tr. m. sand, moist		0		
6			3.2		5.4-7.9 ft. FILL lt. brown f-m SAND, tr. c. sand, tr. shells, moist.		0		
7							0		
8					7.9-8.0 ft. FILL m. brn. silty CLAY, stiff compact moist		0		
9					8.0-11.0 ft. FILL m. brown clayey f-m SAND, tr. gravel, tr. oyster shells, moist (wet at 9 ft)		0		groundwater at 9 feet
10			2.6				0		
11					11.0-11.9 ft. dk. gray to brwn.-gray clayey SILT, stiff compact.		0		
12					11.9-12.0 ft. dk. gray f. SAND, tr. clay		0.5		slight petroleum odor

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B30	COORDINATES:		DATE:	10/23/03
ELEVATION / DATUM:	raised slab	GWL: Depth: 9 ft	Date/Time:	TIME STARTED:	9:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			3.0		12.0-14.0 ft. dk. gray f-m SAND, some clay, saturated.		0.2-3		sheen detected using o/w shake test; h/s = 5 ppm
14					14.0-15.2 ft. dk. gray silty CLAY, stiff, compact.				
15									
16					15.2-16.0 ft. dk. gray SILT, tr. f. sand, saturated.		0-0.2		
17					16.0-17.5 ft. black clayey SILT, laminated, saturated		5-10 5-10		oil-staining
18			2.8		17.5-18.0 ft. FILL black f. SAND, tr, clay, tr. silt, saturated		0		
					18.0-18.6 ft. FILL black silty CLAY, stiff, compact, saturated.		10-20		oil staining & odor
19					18.6-20.0 ft.black coal ash, some gravel, saturated. (oil stained with odor)		40-50		black globules of oil present in water in sampler.
20					20.0-22.0 ft. FILL black coal ash w./ crushed stone & metal wire, saturated.				oil staining & strong petroleum odor
21							7-9		
22			1.4						poor recovery
					22.0-24.0 FILL dk gray clayey SILT, tr. gravel, tr. f. sand, tr. crushed stone, stiff, saturated		7-9		
23							7-9		
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B30	COORDINATES:		DATE:	10/23/03
ELEVATION / DATUM:	raised slab	GWL: Depth: 9 ft	Date/Time:	TIME STARTED:	9:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 3	OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
25			0.3		24.0-28.0 ft. dk gray CLAY, tr. plant matter, moist.		0 0 0 0		no evidence of petroleum poor recovery
28					E.O.B. at 28.0 feet				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B31	COORDINATES:	DATE:	10/23/03
ELEVATION / DATUM: top of slab (depth to soil is 21")	GWL: Depth: 8.2 ft. Date/Time:	TIME STARTED:	11:05
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	12:05
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
1				VOID	0.6-1.6 ft. (void)				
2			1.4 over 2.2		1.6-4.0 ft. FILL m. brown gravelly f. SAND, some crushes stone, tr. coal ash, moist.		0		
3							0		
4					4.0-7.5 ft. FILL m. brown f-m SAND, crushed stone, concrete fragments, tr. oyster shells, moist		0		
5							0		
6			2.8				0		
7					7.5-8.0 ft. FILL inter-layered m. brown f. SAND and dk. gray CLAY, tr. oyster shells, moist.		0		
8					8.0-12.0 ft. FILL dk. brown clayey f-m-c SAND, tr. gravel, tr. oyster shells, clay ricj horizons 1-2 cm. thick, saturated.		0		
9							0		
10			2.0				0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B31	COORDINATES:		DATE:	10/23/03
ELEVATION / DATUM:	top of slab (depth to soil is 21")	GWL: Depth: 8.2 ft.	Date/Time:	TIME STARTED:	11:05
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	12:05
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					dk. gray clayey SILT, some f. SAND, sat'd				brown oily film
13			2.9		12.2-16.0 ft. dk. gray f-m-c- SAND, some shels, tr. gravel, saturated		7.8		light oily sheen from 12.2 to 13.2 ft.
14									
15							4.5		
16							2		
17			3.4		16.0-19.0 ft. dk. gray to black SILT, grading into silty CLAY, stiff, compact, moist		0		
18							0		
19							0		
20					19.0-21.4 ft. dk. gray f-m SAND, some shels, gleyed,		0.2		no evidence of petroleum; shells <1 cm. wide.
21					20.0-21.4 ft. dk. gray clayey SILT, stiff, compact, moist.		0		
22			3.5		21.4-22.0 ft. dk. gray sandy SILT, some gravel, moist		0		
23					22.0-24.0 ft. dk. brown peaty CLAY, grading into Clay w./ trace of organic matter, stiff. moist.		0		
24							0		

NOTES: **E.O.B. at 24.0 ft**

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B32A	COORDINATES:		DATE:	10/23/03
ELEVATION / DATUM:	top of slab (depth to soil is 1 ft)	GWL: Depth:	8.0 ft Date/Time:	TIME STARTED:	12:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:10
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
					0.6-1.0 ft. (void)				
1					1.0-4.0 ft. FILL m. brown f-m-c SAND & crushed stone, tr. oyster shells, moist		0		
2			1.7				0		
3							0		
4					4.0-5.5 ft. FILL (same as above)		0		
5							0		
6			3.0		5.5-8.0 ft. FILL lt. gray to rusty brown f-m SAND, tr. oyster shells, tr. gravel, moist		0		
7							0		
8					8.0-10.0 ft. FILL (same as above). saturated at 8 ft.		0		
9			1 over 2'				0		
10					10-6.0+ ft. concrete slab.				
11					**E.O.B. at 10.5 feet (refusal)**				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B32B	COORDINATES:	DATE: 10/27/03	
ELEVATION: 13.66'	GWL: Depth: Date/Time:	DATE STARTED: 10/27/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/27/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					6" - concrete slab				
1					Dark Gray & Brown cmf SAND, little Silt, trace clay w/ pieces of Rock	F			0.0
2			69		Brownish Yellow cmf SAND, little cmf Gravel, trace Silt w/ piece of Rock				0.0
3					↓				
4					Dark Gray & Brown cmf SAND, little Silt w/ piece of Rock	F			0.0
5					↓				
6			63		Dark Gray cmf SAND little Silt, trace f Gravel	F			0.0
7					↓				
8					Light Brown CLAY, some mf Sand, little cm Grav. trace Silt. w/ Rock	F			0.0
9					↓				
10			58		↓				
11					Gray cmf SAND, little Silt, trace clay w/ Rock	F			0.0
12									

NOTES: Oil / H_2O Shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B32B	COORDINATES:	DATE: 10/27/13	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/27/13	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/27/13	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Dark Gray cmf SAND, little mf Gravel w/ piece of white shell	SP			
14			88						
15									
16					Gray CLAY	CL			
17									
18			52		Dark Gray cmf SAND, little Silt, trace clay w/ Pieces of shell	SP			
19					Gray CLAY				
20					Dark Gray CLAY, little Silt				
21						CL			
22			75						
23					f Gravel				
24					Dark Gray CLAY w/ Piece of decomposed wood	CH pt			

NOTES: End of the Boring at 24'

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B33A	COORDINATES:		DATE:	10/29/03
ELEVATION / DATUM:	at grade	GWL: Depth: 6.0 ft	Date/Time:	TIME STARTED:	7:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:05
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
0					0-4.0 ft. FILL m. brown f. SAND grading into silty f. SAND, tr. shells, tr. gravel, moist		0		hydraulic fill
1							0		
2			1.5				0		
3							0		
4					4.0-6.0 ft. FILL (same as above)		0		
5							0		
6			3.9		6.0-7.0 ft. dk. gray CLAY, tr. silt, plastic, saturated.		0		
7					7.0-8.0 ft. dk. gray f-m SAND, little gravel, saturated		0		
8					8.0-9.0 ft. dk. gray f-m SAND inter-layered w./ SILT, saturated.		0		
9					9.0-11.0 ft. dk. gray CLAY, tr. silt, saturated		0		
10			3.4				0		
11					1.0-11.2 ft. dk. gray f-m SAND, little shells.				
12					11.2-12.0 ft. dk. gray CLAY, saturated.		0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B33A	COORDINATES:		DATE:	10/29/03
ELEVATION / DATUM:	at grade	GWL: Depth: 6.0 ft	Date/Time:	TIME STARTED:	7:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:05
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			3.8		12.0-16.0 ft. dk. gray inter-bedded silty CLAY, CLAY, and clayey SILT, local stringers of f. sand, poorly compacted, saturated		0 0 0 0		
16			1.0		16.0-20.0 ft. dk. gray f. SAND, little shells (snails & clams <1 cm), gleyed, saturated.		0 0 0 0		
20			4.0		20.0-24.0 ft. dk. gray CLAY, tr. silt, tr. organic matter, stiff, moist.		0 0 0 0		
24									

NOTES: **E.O.B. at 24.0 feet.**

Depths are measured relative to top of soil (depth from top of slab to soil surface is ~6 feet).

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B33B	COORDINATES:	DATE: 10/23/03	
ELEVATION / DATUM: top of slab (depth to soil 4.5')	GWL: Depth: 8.0 ft. Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 ft. elevated concrete slab.				
1				VOID					
2									
3									
4					**soil surface**				
5					4.5-8.0 ft. FILL m. brown f-m SAND, tr. gravel, tr. shells, moist.		0		
6			2.2 over 3.5'				0		
7							0		
8									1st drive to 8.0 feet
					8.0-12.0 ft. m. brown f-m-c SAND, tr. gravel, tr. shells, (silty horizons 1-2" thick), saturated.		0		could be native soil (uncertain)
9							0		
10			~3				0		
11							0		
12									

NOTES:

E.O.B. at 12.0 ft. (lost sampler in hole)

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-34	COORDINATES:	DATE: 10/27/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/27/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/27/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID ppm)
1					Brownish Yellow cmf SAND, little cmf Gravel, trace Silt w/ Piece of Rock, wood				0.0
2			25			F			
3									
4					Dark Brown cmf SAND, little Silt w/ Piece of Roots wood, concrete shell	F			0.0
5									
6			63						
7					w/ Piece of Rock				
8					Dark Brown cmf SAND, little clay, & mf Gravel	F			0.0
9					trace Silt w/ Piece of Roots				
10			67		CLAY - 6"	F			
11					w/ Piece of Rock				0.0
12					Dark Gray cmf SAND, little Silt	SP			

NOTES: Oil / H_2O shake Test. Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-34	COORDINATES:	DATE: 10 / 27 / 03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10 / 27 / 03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10 / 27 / 03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
13					Gray CLAY, some Silt, trace f Sand				0.0
					Dark Gray mf+ SAND, little Silt, trace clay & shell				0.0
14			75		Gray CLAY, little Silt trace f Sand & shell				0.0
15									
16					Gray CLAY, trace Silt				
17									
18			69		Dark Gray mf+ SAND little Silt, trace clay				0.0
19					Dark Gray CLAY	CL			0.0
20					Black cmf SAND, little Silt, trace f Gravel	SP			Oily odor
21					Gray CLAY, some Silt, trace mf Gravel/sand & piece of Rock	CL/SP			0.0
22			42		Dark Gry CLAY, some Silt & piece of shell	CL/PT			
23					↓				0.0
24					& decomposed	PT			

NOTES: End of the Boring at 24.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B35	COORDINATES:	DATE:	10/29/03
ELEVATION / DATUM: slab on grade	GWL: Depth: 4.5 ft. Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	10:30
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
1					0.6-4.0 ft. FILL m. brown to dk. brown silty f. SAND, some crushed stone & concrete fragments, tr. coal and coal ash, moist.		0		
2			2.4				0		
3							0		
4							0		
5					4.0-6.5 ft. FILL (same as above)		0		saturated at 4.5 ft.
6			2.6				0		
7					6.5-8.0 ft. FILL m. to dk. gray f-m SAND, poorly sorted, saturated.		0		
8					8.0-12.0 ft. FILL black oil-stained coal ash & silt, saturated		30-40		PHC staining and strong odor
9									
10			1.7				20-30		
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B35	COORDINATES:		DATE:	10/29/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 4.5 ft.	Date/Time:	TIME STARTED:	9:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			0.2		12.0-16.0 ft. dk. gray f. SAND, saturated.		10-15		concrete in drive shoe; oily sheen
14									poor recovery (running sand)
15							0		
16					16.0-19.8 ft. no recovery (running sand)				
17							0		
18			0.2						poor recovery (running sand); upper contact of clay unit in bottom of drive shoe.
19							0		
20					19.-20.0 ft. dk. gray CLAY, stiff, moist				
21					**E.O.B. at 20.0 feet**				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B36A	COORDINATES:		DATE:	10-29003
ELEVATION / DATUM:	slab on grade	GWL: Depth: 6 ft.	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
1					0.6-6.0 ft. FILL m. brown f. SAND, tr. oyster shells. moist.		0		Drove point to 6.0 feet, past concrete slab; No sample from 0.6-6.0; lithology to 6' based on boring B36
2			NA				0		
3							0		
4			NA				0		
5							0		
6									
7			1.8 over 2'		6.0-8.0 ft. FILL dk. gray to black silty f. SAND, saturated (PHC odor)		5-10		drove first sampler from 6-8 ft.
8					8.0-10.5 ft. FILL dk. gray to black silty f. SAND, loose, saturated, oily sheen, loose, PHC odor.		15-20		
9									
10			2.5						
11					10.5-12.0 ft. FILL black silty f. SAND, some coal ash, gravel & wood, saturated.		15-20		oily sheen and PHC odor
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B36A	COORDINATES:		DATE:	10-29003
ELEVATION / DATUM:	slab on grade	GWL: Depth: 6 ft.	Date/Time:	TIME STARTED:	
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-16.0 ft FILL blackto dk. gray loose silty MUCK, some, gravel, wood & coal ash, saturated.		10		pHC sheen and odor
14			1.8				2-5		
15							2-3		
16					16.0-19.5 ft. interbedded dk. gray SILT, f. SAND, and silty CLAY, stiff, compact, saturated.		2-5		PHC staining and sheen from 16.0-16.5 ft.
17							0		
18			~3				0		
19							0		
20					19.5-20.0 ft. dk. brown PEAT, little clay, moist.		0		
21					**E.O.B. at 20.0 feet**				
22									
23									
24									

NOTES: Hit refusal in SI-UST-B36 at 6' (abandoned hole). Drove point to 0-6 ft. in B36A and logged interval based on B36. Jim Moras of NYSDEC observed work.

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B37	COORDINATES:		DATE:	10/29/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 5 ft.	Date/Time:	TIME STARTED:	12:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
1					0.6-3.0 ft. FILL m. brown f. SAND, some crushed stone & concrete fragments, tr. oyster shells, moist		0		
2			2.6				0		
3					3.0-4.0 ft. FILL black coal ash, gravelly texture, moist.		0		
4					4.0-6.0 ft. FILL black coal ash, some f. sand, moist.		5		viscous oily coating w./ sheen and PHC odor; groundwater at about 5 feet.
5							10		
6			3.5		6.0-8.0 ft. FILL dk. gray f. silty SAND, stiff saturated.		10		
7							10		
8					8.0-10.0 ft. FILL dk. gray f. silty SAND, tr. cobbles, tr. brick fragments, saturated.		10		
9							10		
10			2.3		10.0-12.0 ft. FILL black coal ash, saturated.		30-40		oil staining, sheen, and strong PHC odor on soil; viscous, black oily coating on drill rod.
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B37	COORDINATES:		DATE:	10/29/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 5 ft.	Date/Time:	TIME STARTED:	12:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			3.5		12.0-16.0 ft. black to dk. gray f. SAND, uniform, compact, saturated.		<1		slight oily sheen
14									
15							<1		
16					16.0-16.5 ft. dk. gray to black SILT, plastic saturated.		0		
17			3.5		16.5-18.0 ft. dk. gray f. SAND, tr. m. sand, poorly sorted, saturated		0		
18					18.0-20.0 ft. dk. gray SILT, stiff micaceous, compact, saturated.		0		
19							0		
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B38	COORDINATES:		DATE:	10/29/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 4.0 ft.	Date/Time:	TIME STARTED:	13:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:26
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
1			2.2		0.6-4.0 ft. FILL m. brown f. SAND, crushed stone, concrete, coal ash, slightly moist.		0		
2							0		
3							0		
4									
5			2.7		4.0-5.5 ft. FILL m. brown f. SAND, tr. shells, poorly sorted, saturated		0		hydraulic fill
6					5.5-8.0 ft. FILL dk. gray to black mottled, clayey f. SAND and crushed stone.		0		
7									black oil staining at 7 to 8 ft.
8							5-10		
9					8.0-11.8 ft. FILL black clayey f. SAND, some gravel, saturated				heavy, viscouis oil staining with strong PHC odor.
10			1.7				100-150		
11									
12					11.8-12.0 ft. dk. gray f. silty SAND, saturated stiff.		50-100		

NOTES: **E.O.B. at 12.0 feet (obstruction)**

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B39	COORDINATES:	DATE:	10/29/03
ELEVATION / DATUM: slab on grade	GWL: Depth: 4.0 ft Date/Time:	TIME STARTED:	14:10
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	15:00
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-6.0 ft. concrete slab.				
1			2.5		0.6-4.0 ft. FILL m. brown f. SAND, tr. crushed stone, tr. coal, moist..		0		hydraulic fill
2							0		
3							0		
4									
5			4.0		4.0-6.0 ft. FILL (same as above)		0		
6					6.0-7.7 ft. dk. gray f. SAND, saturated		0		
7							0		
8			3.4		7.7-8.0 ft. dk. gray SILT, stiff, compact, saturated. 8.0-12.0 ft. dk. gray SILT, tr. shells, stratified, saturated.		0		
9							0		
10							0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B39	COORDINATES:		DATE:	10/29/03
ELEVATION / DATUM:	slab on grade	GWL: Depth: 4.0 ft	Date/Time:	TIME STARTED:	14:10
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	15:00
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					12.0-12.8 ft. (same as above)		0		
13					12.8-14.0 ft. black f-m SAND, little gravel.				anaerobic odor; ow/water test shows sheen; h/s = 0 ppm
14			3.3				0		
					14.0-16.0 ft. dk. gray sandy SILT, tr. wood fragments, stiff, saturated.		0		
15									
16							0		
					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-40	COORDINATES:	DATE:	10/31/03
ELEVATION / DATUM: millings covering slab	GWL: Depth: 5 ft Date/Time:	TIME STARTED:	10:10
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 feet concrete millings				
					0.5-1.0 ft. concrete slab.				
1					1.0-4.0 ft. FILL lt. brownish-gray f. SAND w./ ~50% crushed stone.		0		
2			2.7				0		
3							0		
4					4.0-5.2 ft. FILL (same as above) wet at 5.0 ft.		0		
5									
6			3.2		5.2-6.0 ft. concrete slab.				
					6.0-8.0 ft. FILL lt. brown to lt. gray f. SAND w/. 50% crushed stone, saturated		0		
7							0		
8					8.0-12.0 ft. black coal ash, saturated, loose.		0		
9							0		
10			~3				0		
11							150+		oily soil w./ fuel oil odor at 11.5 feet.
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-40	COORDINATES:	DATE:	10/31/03
ELEVATION / DATUM: millings covering slab	GWL: Depth: 5 ft Date/Time:	TIME STARTED:	10:10
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-14.5 ft. FILL black to dk. gray f. SAND, w./ demolition debris (concrete, stone, wood, cloth), saturated.		1000		black and oily to 12.3 ft; gray below w./ strong PHC odor and high PID to 14.0 ft.
14			2.4				200-300		
15					14.5-16.0 ft. black silty clay & muck, some wood, saturated, liquid.		0-5		slight sheen
16			1.0' over 1		16.0-17.0 ft. (same as above)]				
17					**E.O.B. at 17.0 feet (refusal)**				
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B41	COORDINATES:	DATE:	10/31/03
ELEVATION / DATUM: at grade (millings)	GWL: Depth: 6.5 ft. Date/Time:	TIME STARTED:	11:00
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			3.0		0-4.0 ft. FILL (millings) consisting of variable proportions of concrete fragments, gravel, crushed stone, and f. sand, moist.		0		
2							0		
3							0		
4							0		
5			3.8		4.0-6.0 ft. FILL FILL (same as above)		0		
6							0		
7					6.0-8.0 ft. FILL black coal ash, compact, saturated		0		
8							0		
9			2.5		8.0-12.0 ft. FILL black coal ash, little glass, little f. sand, saturated.		0		
10							0		
11							0		
12							5-10		oil staining at 11.5-12.0 ft.

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B41	COORDINATES:		DATE:	10/31/03
ELEVATION / DATUM:	at grade (millings)	GWL: Depth: 6.5 ft.	Date/Time:	TIME STARTED:	11:00
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.6	###	12.0-16.0 ft. FILL black coal ash, saturated		1000-1200		strong PHC odor; light oil sheen; high PID readings
14							500-600		
15							400-500		
16				###	16.0-17.0 ft. FILL dark gray to black coal ash, saturated.		10-20		
17			3.8	:::	17.0-20.0 ft. dk. gray to black f. SAND, stratified, saturated		0		
18							0		
19							0		
20					**E.O.B. at 20.0 feet**				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B42	COORDINATES:	DATE:	10/31/03
ELEVATION / DATUM: millings	GWL: Depth: 6.0 ft Date/Time:	TIME STARTED:	12:40
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	14:20
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-2.0 ft. FILL concrete millings mixed w./ f. sand and crushed stone, moist.		0		
2			2.2				0		
3					2.0-4.0 ft. FILL dk. brown to black coal ash, some fmc sand, moist, compact		0		
4							0		
5					4.0-8.0 ft. FILL (same as above) wet at 6.0 ft.		0		
6			2.0				0		
7							0		
8							0		
9					8.0-12.0 ft. FILL black coal ash, compact, saturated.		2-3		
10			2.2				10-15		
11							115-140		oil staining at 11.5 to 12.0 ft.
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B42	COORDINATES:		DATE:	10/31/03
ELEVATION / DATUM:	millings	GWL: Depth: 6.0 ft	Date/Time:	TIME STARTED:	12:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	2 OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-15.8 ft. FILL black coal ash, wood, saturated.		80-100		
14							80-115		very light sheen at 14 to15 ft.; o/w test negative; but petroleum odor at same interval.
15							70-100		
16					15.8-16.0 ft. dk. olive-gray f. SAND, saturated		0		
17					16.0-20.0 ft. (same as above)		0		
18							0		
19							0		
20					20.0-21.5 ft. (same as above)		0		
21							0		
22					21.5-23.8 ft. dk. gray silty CLAY, tr, organic matter, stiff, compact, moist.		0		
23							0		
24					23.8-24.0 ft. dk. brown PEAT, tr. clay, moist		0		sulfide odor

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B42	COORDINATES:		DATE:	10/31/03
ELEVATION / DATUM:	millings	GWL: Depth: 6.0 ft	Date/Time:	TIME STARTED:	12:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	3 OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
25					24.0-28.0 ft. dk gray to brown peaty CLAY (~20% organic material overall), stiff, moist.		0-10		sulfide odor
26									
27							0-10		
28					E.O.B. at 28.0 feet				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B43	COORDINATES:		DATE:	10/31/03
ELEVATION / DATUM:	slab on grade	GWL: Depth:	Date/Time:	TIME STARTED:	14:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth: 6.0 ft.	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-5.0 ft. concrete slab.		0		
1			2.6		0.5-4.0 ft. FILL dk. brown to black crushed stone, coal, coal ash, in f. sand matrix, moist		0		
2							0		
3							0		
4			2.2		4.0-5.0 ft. FILL (same as above)		0		
5					5.0-8.0 ft. FILL black coal ash, loose, moist (saturated at 6.0 ft.)		0		
6							0		
7							0		
8			2.3		8.0-12. 0 ft. FILL coal ashmixted w./ gray sand clay, loose saturated.		0		
9							0		
10							0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B43	COORDINATES:		DATE:	10/31/03
ELEVATION / DATUM:	slab on grade	GWL: Depth:	Date/Time:	TIME STARTED:	14:20
ENGINEER/GEOLOGIST:	D. Mackie	Depth: 6.0 ft.	Date/Time:	TIME COMPLETED:	
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13				### ### ### ### ### ###	12.0-13.2 ft. FILL black coal, ash, loose saturated.		0		
14			2.7		13.2-15.0 ft. dk. olive gray f. sand, poorly sorted, tr. gravel, saturated.		0 0		
15				==== ==== ==== ====	15.0-16.0 ft. dk. gray SILT, tr. clay, stiff, compact, saturated micaceous.		0		
16					16.0-18.0 ft. dk. gray f-m SAND, saturated, tr. clay.		0		
17							0		
18			2.8						
19					18.0-20.0 ft. dk. gray f-m SAND, tr. clay, saturated.		0 0		
20					20.0-24.0 ft. gray CLAY, tr. plant remains, stiff.		0		
21							0		
22			3.9				0		
23							0		
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B44	COORDINATES:	DATE:	11/03/03
ELEVATION / DATUM: at grade (millings)	GWL: Depth: 3 ft Date/Time:	TIME STARTED:	8:00
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	8:10
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			3.0		0-1.0 ft. FILL crushed stone & reddish-brown to lt. gray f m sand, moist		0		
2					1.0-3.0 ft. FILL lt brown to white f. SAND, tr. rock fragments (sandstone), moist		0		
3							0		
4					3.0-4.0 ft. FILL dk gray crushed stone and f-m SAND, tr. clay, saturated		0		
5			2.8		4.0-5.0 ft. FILL lt. brown to dk. gray f-m SAND, saturated.		0		
6					5.0-6.0 ft. FILL dk. gray to black coal ash, tr. clay, saturated.		0		
					6.0-6.5 ft. concrete slab				
7					6.5-8.0 ft. FILL dk. gray crushed stone and f-m sand, saturated.		0.2		slight PHC odor but no sheen
8					**E.O.B. at 8.0 feet (concrete slab - refusal)**				
9									
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B44A	COORDINATES:		DATE:	11/03/03
ELEVATION / DATUM:	at grade	GWL: Depth: 4 ft	Date/Time:	TIME STARTED:	8:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	8:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE:	1 OF 1

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1					0-1.0 ft. FILL dk. gray crushed stone & concrate millings, moist		0		
2			2.4		1.0-4.0 ft. FILL lt brown to white f. SAND, tr. rock fragments (sandstone), moist		0		
3							0		
4							0		
5					4.0-5.0 ft. FILL (same as above) saturated.		0		slight greyish oil staining
6			2.4		5.0-8.0 ft. FILL crushed stone, concrete, coal ash, brick fragments, saturated.		0.2		slight oily stain and odor
7							0.2		
8									
9					E.O.B. at 8.0 feet (concrete slab - refusal)				
10									
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B44B	COORDINATES:		DATE:	11/03/03
ELEVATION / DATUM:	at grade (millings)	GWL: Depth:	Date/Time:	TIME STARTED:	8:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
1			3.1	###	0-1.0 ft. FILL millings, moist		0		
2				###	1.0-3.0 ft. FILL lt. orange brown f. SAND, tr. crushed stone, moist		0		
3				###			0		
4				###	3.0-4.0 ft. FILL dk. gray to black crushed stone and f-m SAND, tr. clay, saturated at 3 ft.		0		
5			2.0	###	4.0-6.0 ft. FILL black coal ash, crushed stone, and f. sand, saturatd.		0		
6				^<>	6.0-6.5 ft. concrete slab				
7				###	6.5-8.0 ft. FILL dk. gray crushed stone, coal ash, f-m sand, moist.		0		
8				:::	8.0-9.5. ft. dk. gray f. SAND, saturated.		0		very slight PHC odor, h/s=2.4 ppm; o/w test negative (slight film noted on sides of jar).
9				:::			0		
10			0**	═══	9.5-12.0 ft. dk. gray CLAY, tr. silt, plastic, saturated.		0		dk. gray sand in tip of sampler.
11				═══			0		
12				═══					

NOTES: ** note: No sample recovery in initial drive from 8-12 ft due to obstruction; drove point to same interval at a location 1.5 ft. away from the original boring, and recovered core from 8-12 ft. (lithology shown above is based on that core).

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B44B	COORDINATES:		DATE:	11/03/03
ELEVATION / DATUM:	at grade (millings)	GWL: Depth:	Date/Time:	TIME STARTED:	8:30
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	9:30
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-13.5 ft. dk. gray f-m SAND compact, saturated.		0		no PID reading, odor, or sheen.
14			3.0		13.5-16.0 ft. dk. gray silty CLAY, tr. f. sand, micaceous, stiff, compact, moist.		0		fragment of rotten wood encountered at 15-16 ft.
15							0		
16							0		
					E.O.B. at 16.0 feet				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: SI-UST-B45	COORDINATES:	DATE:	11/03/03
ELEVATION / DATUM: asphalt on grade	GWL: Depth: 3.5 ft Date/Time:	TIME STARTED:	9:45
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	10:15
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0.0.3 ft. Asphalt & crushed stone.				
1			2.7		0.3-2.0 ft. FILL crushed stone, gravel, and dk grayish-brown f-m sand, moist		0		
2					2.0-4.0 ft. FILL black coal ash. saturated at 3.5 ft.		0		
3							0		
4							0		
5			3.2		4.0-7.0 ft. FILL (same as above)		0		
6							0		
7							0		
8			3.5		7.0-8.0 ft. lt gray f-m-c SAND, tr. gravel, poorly sorted, loose saturated.		0		
9					8.0-11.0 ft. lt. to dk. gray f-m SAND, tr. c. sand, compact, saturated.		0		
10							0		
11							0		
12					11.0-12.0 ft. dk. gray SILT, compact, stiff,, moist.		0		

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	SI-UST-B45	COORDINATES:		DATE:	11/03/03
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 3.5 ft	Date/Time:	TIME STARTED:	9:45
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	10:15
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			~3		12.0-16.0 ft. dk. gray clayey SILT, (grades into silty CLAY w. depth), tr. f. sand locally in thin laminae, stiff, compact, stratified, saturated.		0 0 0 0		
16					**E.O.B. at 16.0 feet (refusal)**				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B46	COORDINATES:	DATE: 11 | 17 | 03	
ELEVATION: 9.86'	GWL: Depth: Date/Time:	DATE STARTED: 11 | 17 | 03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11 | 17 | 03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
0					Fill material	F			0.0
1									
2									
3									
4						F			
5									
6									
7									
8						F			
9									
10	S-1	10/12			Black & Dark Gray emf Sand & Gravel & coal Ash Cinder	F			0.0
11		3 4 4			Brown SILT, little mf Sand				
12		6							

NOTES: Oil / H_2O Shake Test - Performed

SOIL BORING LOG

amec

PROJECT NUMBER: 276080000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B46	COORDINATES:	DATE: 11/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/17/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
13	S-2	12-14			Dark Gray mf SAND, little Silt	SM			0.0
		4							
		6							
		8							
14		11							
	S-3	14-16			Dark Gray mf SAND, Some Silt, trace clay layer silt & clay	SM			0.0
		2							
15		2							
		2							
		3							
16	S-4	16-18			Grey mf SAND, Some Silt, trace clay	SM			0.0
		2							
17		2							
		1							
		2							
18	S-5	18-20			Dark Gray cmf SAND, trace Silt & clay				0.0
		4							
		3							
19					CLAY w/ mf Sand	CL			
		5							
		4			Dark Gray mf SAND, little Silt, trace clay	SM			0.0
20	S-6	20-22							
		3			Dark Gray cmf SAND, little Silt, trace f Gravel	SP			
		5							
21									
		5							
		6							
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000		PROJECT NAME: Former General Motors, Sleepy Hollow, New York	
BORING NUMBER: SI-UST-1346		COORDINATES:	DATE: 11/17/03
ELEVATION:		GWL: Depth: Date/Time:	DATE STARTED: 11/17/03
ENGINEER/GEOLOGIST: Madhu Patel		Depth: Date/Time:	DATE COMPLETED: 11/17/03
DRILLING METHODS: Geoprob Rig			PAGE: 3 OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
25	S-7	25-27			Dark Gray CLAY w/ Pieces of decomposed wood.	Cl Pt			
26		2							
27		3							
		2							
		2							
					End of the Boring at 27.0				
28									
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-47	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID
1					White & Gray cmf SAND, little Silt, trace clay, & concrete, wood & Pieces of Rock / Brick	F			0.0 PPM
2			86						
3					Black cmf SAND, little mf Gravel, trace silt/clay & Pieces of Rock/Brick.	F			10 PPM
4									
5					Brown & Black SILT, little mf Sand, trace clay, trace F Gravel				83 PPM GWL 6.5'
6			87		Brown and Black cmf SAND, little Silt, trace mf Gravel & Pieces of wood / Rock	F			634 PPM
7					Brownish Gray cmf SAND, little Silt, trace mf Gravel & Rock,				
8					Dark Gray cmf SAND, little Silt, trace clay, trace F Gravel & Pieces of Rock, wood	F			
9									
10			73						1500 PPM 7-11.5' oily.
11									
12					Dark Gray mf+ SAND, little Silt, trace clay & decom Rock	F			

A-1
A-2

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B47	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black CLAY and SILT, trace f Sand by Piecing wood	F			
					Black cmf SAND, trace Silt, trace clay, trace f Gravel by Pieces of Brick rock, shell				6 PPM
14			67			F			
15									
16					Dark Gray cmf SAND, little Silt, trace clay				
					Dark Gray cmf SAND, little cmf Gravel	SP			
17					↓				
					some Gravel				0 PPM
			75						
18					Dark Gray cmf SAND, little Silt, trace f Gravel	SP			
19					Brown SILT by decomposed wood (Peat)	Pt			
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-48	COORDINATES:	DATE: 04/05/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/05/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (0 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Pieces of Concrete, little mf Gravel, trace Silt & Pieces of Rock.	F			
2			67						
3					Pale green cmf SAND, little Silt, trace mf Gravel & wood, Brick, Rock	F			0.0 PPM
4									
5					Pale green and Brownish Gray mf SAND, little Silt, trace clay & piece	F			
6			83		of Rock				
7									
8									
9					Dark Gray mf SAND, little Silt, trace clay & Pieces of Rock	F			20 PPM 66 PPM
10			67						
11					Black cmf SAND, and f Gravel, little Silt, trace clay & Pieces of Rock.	F			778 PPM
12									

A-1

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-48	COORDINATES:	DATE: 04/05/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/05/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
									PID
13					Black & Brown cmf SAND, little mf Gravel, little silt & pieces of Rock, wood				
14			79		Dark Gray mf SAND, little Silt, trace clay, little mf Gravel & pieces of wood	SP			15 PPM
15					Root & pieces of wood.				
16					& clay & pieces of wood.	CL			
17					Dark Gray mft SAND, little Silt, trace clay &				
18			83		pieces of wood				
					Brown SILT & decom-	PT			0.0 PPM.
19					osed wood. (Peat)				
20					End of the Boring at 20.0 feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B40	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Gray cmf SAND, little Silt, little clay, F Gravel trace Silt w pieces of shell rock, wood	F			50 ppm
2			63		Black cmf SAND, little Silt, little cmf Gravel, trace clay w pieces of Rock	F			
3					Brick, cinder. shell				
4					w Bricks.				
5					Dark Gray cmf SAND, little Silt, trace clay, trace mf Gravel				
6			63		w pieces of Rock. wood. cinder	F			GWL. 6.5'
7					Dark Gray cmf SAND, little mf Gravel w pieces of Rock				
8					Black cmf SAND, little Silt, trace F Gravel w	F			593 ppm
9					pieces of Rock, concrete.				9-11' - oily
10			79		Black cmf SAND, little cmf Gravel, little Silt,	F			
11					trace clay w pieces of Rock				1000 ppm
12					w pieces of Rock/concrete				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-49	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID
13					Dark Gray MF SAND, little Silt, trace clay	SP			2 PPM
14			83		Dark Gray cmf SAND, little Silt, trace clay	SM			
15									
16					Dark Gray cmf SAND, trace Silt, trace f Gravel trace clay	SP			0.0 PPM
17									
18			88						
19					Gray CLAY/SILT w/ pieces of decomposed wood	CL			
					Dark Gray MF SAND, little f Gravel, trace Silt	PT			
20						SP			
					End of the Boring at 20.00 feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-50	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Concrete				
1					Dark Gray & Black cmf SAND, little mf Gravel &	F			
2					Pieces of Rock, Ash, cinder				
			67		Black mf SAND, little silt-				
3					& Pieces of Rock, wood				
					Bricks				
4					Dark Gray & Black cmf SAND, little mf Gravel				
5					trace Silt, trace clay	F			
					& Pieces of Rock, wood				
6			75		cinder, Brick				GWL-6.0'
7					↓				9 to 11.0 oily
8					Black cmf SAND, little				
					mf Gravel, trace Silt &	F			
9					Piece of Rock, Brick etc				
					↓				
			79						
A-1 10					Greenish yellow mf SAND,				64 PPM
					little Silt, trace clay				
11						F			
					Dark Gray SILT, little f				
12					Sand, trace clay & Brick				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B50	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black cmf SAND, little mf Gravel, trace Silt, trace clay & Brick, Wood	F			6 PPM
14			75		↓				
15					Pieces of wood (14'-15.5')	F			
16					Gray cmf SAND, little mf Gravel, trace silt, trace clay	SP			
17					Gray mf GRAVEL and SAND, little silt & Pieces of shell				0.0 PPM
18			67		↓				
19					Gray cmf SAND, little mf Gravel, trace silt	SP			0.0 PPM
20					End of the Boring at 20.0 feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B5	COORDINATES:	DATE: 05/05/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/05/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID
					7" - Concrete slab				
1					Brownish yellow cmf SAND, little cmf Gravel	F			0.0 PPM
2			42		little silt, trace clay by Pieces of Rock				
3					Gray CLAY layer (3")				
4					Pieces of Concrete				
5					Brown cmf SAND, little Silt, trace mf Gravel by Pieces of Rock	F			0.0 PPM
6			75		Some Gray CLAY				
7					Brown cmf SAND, little mf Gravel, trace silt by Pieces of Rock, shell	F			
8					light Brown cmf SAND,				GSL 9.0'
9					little f Gravel, trace silt & clay by Pieces of shell	F			
10			67						0.0 PPM
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B5	COORDINATES:	DATE: 05/05/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/05/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13	A-1				Dark Gray cmf SAND, little f Gravel, trace silt trace clay & pieces of white shell	F			0.0 PPM
14			83						
15									
16					Brownish Gray mf SILT/ clay & pieces of shell				
17					Gray mf SAND, little clay & silt	SP/ CL			0.0 PPM
18			85		(alternate bands of Silt/CLAY/sand	ML			
19									
20					Dark Gray mf SAND, little silt				
21					Dark Gray mf SAND, little silt, trace clay				
22			90		Brown CLAY	CL			0.0 PPM
23					Black cmf SAND				
24					Dark Gray mf SAND, little Silt, trace clay	SP/ CL			
					Brown SILT & decomposed wood	Pt			

NOTES: End of the Boring at 24.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-52	COORDINATES:	DATE: 04/05/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/05/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Concrete (slab)				
1					Black cmf SAND, little Silt, trace mf Gravel, trace Silt by pieces of cinder ash, Rock, Brick	F			
2									0.0 PPM
3			67						
4					Brown cmf SAND, little Silt, trace mf Gravel, trace clay by pieces of Rock, cinders	F			
5									
6			83		Gray cmf SAND, little Silt, trace mf Gravel	F			GOL-6.0
7					Pale green mf SAND, little Silt, trace clay, trace f Gravel				0.0 PPM
8					Black cmf SAND, little mf Gravel	F			
9					by Pieces of Rock (1")				
10 A-1 A-2			88		by Pieces of Wood. (2")				316 PPM
11					Black mf GRAVEL, trace mf Sand, trace clay by Pieces of Brick, Wood	F			
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-52	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black & Dark Gray cmf SAND, trace mf Gravel, trace clay (silty sand)	F			
14			83		Gray mf SAND, little Silt	SM			3 PPM
15					↓				
16					Dark Gray mf SAND, little Silt, trace clay	SM			
17									
18			88		W/ Pieces of wood				0.0 PPM
19					Dark Gray cmf SAND, little f Gravel, trace Silt				
20					Brown SILT w/ pieces of decomposed wood (Peat	Pt			
21					End of the Boring at 20.0 Feet				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-53	COORDINATES:	DATE: 05/05/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/05/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID
0					Black & Brown cmf SAND, little mf Gravel, trace Silt & pieces of concrete, Brick, wood etc.	F			
1									0.0 PPM
2			50						
3									
4					Black cmf SAND, little mf Gravel, little Silt & Pieces of Rock, wood, cinder	F			0.0 PPM
5									
6			88						
7					Brown mf SAND, little Silt & Pieces of glass, Wood.	F			54 PPM
8					Black cmf SAND, little Silt, trace mf Gravel & Pieces of Rock, Brick	F			
9									853 PPM
A-1 10			83		Dark Gray cmf SAND, little Silt, trace clay, trace f Gravel.	SP			
11									
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST. B-53	COORDINATES:	DATE: 05/05/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/05/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/05/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black cmf SAND, little Silt, trace clay, trace f Gravel	SP			
14			67		Dark Gray SAND, trace f Gravel, trace silt & clay	SP			2 ppm
15									
16					End of the Boring at 16.0				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-54	COORDINATES:		DATE: 05/06/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 05/06/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 05/06/04
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Pieces of concrete				
1					↓				
2			63		Brownish yellow cmf SAND Tittle Silt, trace f Gravel wj Pieces of Rock	F			0.0 PPM
3					Black cmf SAND, Tittle Silt,	F			
4					trace mf Gravel wj Brick, cinder				
					Black cmf SAND, Tittle Silt, Tittle mf Gravel wj				
5					Pieces of Brick, shell concrete, cinder	F			70 PPM
6			67		↓				GWL 6.0'
					wj Pieces of Rock.				
7					Dark Gray cmf SAND, Tittle Silt wj Pieces of Rock, Brick	F			
8									
					Dark Gray cmf SAND,				oily
9					Tittle clay wj Pieces of Rock, shell	F			9-9.5'
A-1									
10			67		wj Pieces of Brick (1")				28 PPM
11					Dark Gray & Black cmf SAND, some Silt, trace	F			
12					f Gravel, trace clay				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-54	COORDINATES:	DATE: 05/06/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/06/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/06/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black & Dark Gray CLAY, little cmf Gravel, little Silt				
					Black CLAY/SILT & Rock	F			
14			33		↓				0.2 ppm
15					& lg Pieces of Brick	F			
					& lg Pieces of Rock				
16					Grayish Brown CLAY/ SILT	CL			
17					↓				
18			83						0.0 ppm
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-55	COORDINATES:	DATE: 05/06/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/06/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/06/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Black & Brown cmf SAND, little mf Gravel. Pieces of concrete.	F			
2			63						
3					Dark Gray & Black cmf SAND, little cmf Gravel trace silt & pieces of Rock.	F			0.0 PPM
4									
5					Black cmf Gravel & SAND little silt & Pieces of Rock Shell, Brick, cinder	F			
6			79						
7					Dark Gray cmf SAND, little silt, trace clay & Pieces of shell	F			0.0 PPM
8					Gray cmf SAND, little silt trace clay				
9					Dark Gray cmf SAND, little silt, trace clay	F			
10			88		& Brownish Gray CLAY	CL			0.0 PPM
11					Dark Gry mf SAND & SILT trace clay	SP/SM			
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-55	**COORDINATES:**	**DATE:** 05/06/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 05/06/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 05/06/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Brownish Gray CLAY, little Silt	CL			
14			75						0.0 ppm
15									
16					Grayish Brown CLAY, little Silt				
17									
18			73		Black mf GRAVEL, trace cmf Sand	SP/GP			
19					Grayish Brown CLAY, little Silt	CL			
20					End of the Boring at 20.0 feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SL-UST-B-56	COORDINATES:	DATE: 05/06/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/06/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/06/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID
1					Brown cmf SAND, little mf Gravel, trace silt & Pieces of Brick, rock	F			
2			67						
3					2.5 to 3.5 - Pieces of Rock				0.0 ppm
4					Gray & Brown cmf SAND, little silt, trace mf Gravel trace clay	F			
5					Dark Gray cmf SAND, little silt, trace mf Gravel trace clay				
6			83						
7					Dark Gray cmf SAND, little mf Gravel, trace silt trace clay & Rocks	F			
8									0.0 ppm
9					Gray cmf SAND, little silt, trace clay, trace mf Gravel				
10			88						
A-1					Black cmf GRAVEL, little mf Sand, trace silt	F			10.5 - 11.0 Sheen
11					Gray CLAY, some silt	CL			8 ppm
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-56	COORDINATES:	DATE: 05/06/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/06/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/06/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
					Gray CLAY / SILT	CL			
13									0.0 PPM
14			88						
15									
16					Black mf SAND, some Silt & pieces of wood	SP			
17									
18			83		} clay/silt & pieces of wood	CL			0.0 PPM
19					Gray mf SAND, little silt trace clay	SP			
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-57	COORDINATES:		DATE: 05/13/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 05/13/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 05/13/04
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID
0					White & Brown cmf SAND, little mf Gravel, trace silt	F			
1					by Pieces of Rock.				0 PPM
2			75		Brown & Black cmf SAND, little Silt, trace mf clay	F			
3					by Pieces of Brick, cinder ash				
4									
5					Dark Brown cmf SAND, little Silt, little cmf Gravel by Pieces of Brick Rock, cinder	F			8 PPM
6			88		trace clay				
7					by Pieces of Rock				
8					Black cmf SAND and GRAVEL, little Silt,	F			
9					trace clay by Pieces of Rock, cinder				1000 PPM
10			96		by Pieces of Rock.				9.0-9.5' oily
11					Pale green cmf SAND	F			
12					Black cmf SAND, gravel by Pieces of Rock, wood				

A-1

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-57	COORDINATES:	DATE: 05|13|04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05|13|04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05|13|04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black cmf SAND, little Silt, little cmf Gravel trace clay & Pieces of Rock, cinder	F			
14			73		Pieces of Wood				
15					Black cmf SAND & GRAVEL trace silt/clay & Pieces of Wood	F			sheen, 15.0 - 15.5
16					Dark Gray cmf SAND, little Silt, trace f Gravel, trace clay	SP			
17					Gray SILT, little mf Sand	ML			
18			88		Gray cmf SAND, little Silt, trace mf Gravel, trace clay	SP			0.0 PPM
19									
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-58	COORDINATES:	DATE: 05/13/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/13/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/13/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Brown mf SAND, little Silt, trace mf Gravel, Rock Pieces of concrete	F			
2			83		Dark Gray cmf SAND, little mf Gravel, trace Silt & Pieces of Rock	F			0.0 PPM
3					Black/Brown cmf SAND, little cmf Gravel, trace Silt & Pieces of Rock, Brick Shell				
4									
5					Gray cmf SAND, little Silt, trace clay, trace f Gravel & Pieces of Shell	F			
6			79						0.0 PPM
7									
8					Gray cmf SAND, little Silt, trace clay & Pieces of Shell (loose sand)	F			
9									
10			67						
A-1 11						F			Sheen/oily 11 - 11.5
12					Black cmf SAND & GRAVEL little Silt, trace clay & Pieces cinder, wood				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-UST-B-58	COORDINATES:		DATE: 05/13/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 05/13/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 05/13/04
DRILLING METHODS: Geoprob Rig			PAGE: 2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black cmf SAND, some GRAVEL, little silt, trace clay w/ Piece of Rock	F			
14			75		w/ Piece of wood/Rock (3")				5 ppm
15					w/ Piece of Rock	F			
16					Black mf SAND, little silt w/ Piece of wood				
17					Dark Gray mf SAND, little silt, trace clay	SM			
18			83		Dark Gray cmf SAND, little silt, trace clay	SM			
19					Dark Gray SILT, little clay trace mf Sand	ML			0.0 ppm
20					Dark Gray cmf SAND, little silt, trace clay	SM			
21					End of the Boring at 20.0'				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	PZ-35	COORDINATES:		DATE:	05/18/04
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 7 ft	Date/Time:	TIME STARTED:	13:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:00
DRILLING METHODS:	Geoprobe® / 5-foot Double-Tube Macrocore® sampler			PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.5 asphalt & crushed stone		0		
1			3.5 over 5'		0.5-5.0 FILL ft. dk brown f-m SAND, tr. shells, moist (hydraulic fill)		0		
2							0		
3							0		
4							0		
5					5.0-8.0 ft. FILL (same as above) saturated at ~7ft		0		
6							0		
7			3.1 over 5'				0		
8					8.0-10.0 ft lt gray f-m SAND, some oyster shells, saturated (hydraulic fill)		0		
9							0		
10							0		
11							0		
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	PZ-35	COORDINATES:		DATE:	05/18/04
ELEVATION / DATUM:	asphalt on grade	GWL: Depth: 7 ft	Date/Time:	TIME STARTED:	13:40
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	14:00
DRILLING METHODS:	Geoprobe® / 5-foot Double-Tube Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13			2.2 over 5'		10.0-15.0 ft. FILL (same as above)		0		
14							0		
15							0		
					E.O.B. at 15.0 ft				
16									
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

One-inch dia. permament piezometer (PZ-35) installed, screened from 5-15 feet bgs, w. 4-in. sand pack (installed using double-tube sampler.) Includes 5-inch dia. flush-mount protective casing.

SOIL BORING LOG

amec

PROJECT NUMBER: 276360000-0008	PROJECT NAME: Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER: MS-01	COORDINATES:	DATE:	05/18/04
ELEVATION / DATUM: slab on grade	GWL: Depth: ~4 ft Date/Time:	TIME STARTED:	12:15
ENGINEER/GEOLOGIST: D. Mackie	Depth: Date/Time:	TIME COMPLETED:	13:20
DRILLING METHODS: Geoprobe® / 4-foot Macrocore® sampler		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
					0-0.6 concrete slab				
1				NO SAMPLE	No sample - existing hole from methane survey sample MS-01 (open to 3.0 feet.)				
2									
3									
4			0.8 over 1.0 ft		3.0-4.0 ft. FILL black coal ash and c-m-f- SAND, moist.		0-1		PID reading may be due to humidity
5					4.0-8.0 ft. (no recovery, possible running sand??)				
6			0.0						
7									
8					8.0-12.0 ft. black, f. SAND and muck, loose, saturated. (peat in tip of sampler)				poor recovery
9							5		oily sheen and slight petroeum odor
10			0.5						
11									
12									peat in tip of sampler

NOTES:

Purpose of boring is to log lithology at site of methane survey sample MS-01

SOIL BORING LOG

amec

PROJECT NUMBER:	276360000-0008	PROJECT NAME:	Former General Motors Assembly Plant Site, Sleepy Hollow, NY		
BORING NUMBER:	MS-01	COORDINATES:		DATE:	05/18/04
ELEVATION / DATUM:	slab on grade	GWL: Depth:	-4 ft Date/Time:	TIME STARTED:	12:15
ENGINEER/GEOLOGIST:	D. Mackie	Depth:	Date/Time:	TIME COMPLETED:	13:20
DRILLING METHODS:	Geoprobe® / 4-foot Macrocore® sampler			PAGE: 2	OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (ft)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	PID (ppm)	WELL CONSRUCTION	REMARKS
13					12.0-16.0 ft. dk. gray CLAY, little organic material (~25% macroscopic plant remains in upper 6", then <10% below), plastic, stiff, saturated. (native marsh deposits)		0-1		
14			2.5						
15							0-1		
16					16.0-20.0 ft. dk. gray to black CLAY, tr. silt, plastic, stiff, saturated, slight anaerobic odor		0-1		
17									
18			3.5						
19							0-1		
20					20.0-24.0 ft. (same as above)				
21							<1		
22			3.6						
23									
24									

NOTES: **E.O.B. at 24.0 ft**

SOIL BORING LOG

amec

PROJECT NUMBER: 276050000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-24	COORDINATES:	DATE: 10/24/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/24/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/24/03	
DRILLING METHODS: Geoprob Rig (Auger)		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					6" Concrete slab	6"			
1					Brown cmf SAND, little Silt, trace cmf Gravel & clay w/ Pieces of wood, Rock Concrete				0.0
2			50						→ Grout
3					Dark Brown cmf SAND, little f Gravel, trace Silt & clay w/ Pieces of Rock				0.0
4					Yellowish Brown cmf SAND, little f Gravel, trace Silt & clay				0.0
5									Bentonite
6			67		Yellowish Brown CLAY & SILT, little f Gravel w/ Piece of Rock	Till			0.0
7									
8					Brown & Yellow cmf SAND, and Silt and clay, little cmf Gravel	Till			0.0
9									Sand Pack
10			69		Red and yellowish Brown mf SAND, little Silt & clay trace f Gravel w/ Pieces of Rock	Till			0.0
11									Screen
12									

NOTES:

Screen - 9-19' - 2" sch 40 PVC - 0.010" S/C
0-2' - 2" sch 40 PVC Riser
6-20' - Sand pack
4-6' - Bentonite 0-4' - Grout

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-24	COORDINATES:	DATE: 10/24/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/24/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/24/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
13					Red and Brownish yellow cmf SAND, little cmf Gravel trace Silt and clay w Pieces of Rock	Till			0.0
14			83		Black, Pieces of Rock (14.0-14.8) (Gneiss)				
15					Brown cmf SAND & SILT, trace cmf Gravel w Rock cmf Gravel	Till			0.0
16					Dark Gray and Brownish yellow cmf SAND, little Silt trace cmf Gravel w Rock	Till			0.0
17									
18			88		Dark Gray mf SAND, little Silt, trace f Gravel and clay w Pieces of Rock	Till			0.0
19									
20					End of the Boring at	20.0'			
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-25	COORDINATES:	DATE: 10/23/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/23/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/23/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
0					6" Concrete Slab				
1					Brown cmf SAND, little Silt, trace clay w/ pieces of Rock, wood	F			
2					Black & Brown cmf SAND, little Silt, trace clay & mf Gravel w/ Rock, wood,				
			67			F			
3					Pieces of Concrete				
					w/ mf Gravel, Pieces of Rock				
4									
					Brown and Yellow SILT,	F			
5					little mf Sand, trace clay				
					trace f Gravel				
6					Gray	F			
			75						
7					Brownish yellow SAND and				
					SILT, trace clay				
8									
					Yellowish Brown SILT, some				
9					mf Sand, little clay, trace	ML			
					mf Gravel	SM			
10			67						
11									
12									

NOTES:

Screen - 9-19'. Sch 40 (2") PVC 0.010" Slot
Riser 0-9'. Sch 40 (2") PVC
Sand pack. 6-25'
Bentonite. 4-6'
Grout. 0-4'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-25	COORDINATES:	DATE: 10/23/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/23/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/23/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
					Reddish Brown SILT, little mf Sand, trace mf Gravel	ML SM			0.0
13									
14			80		Yellowish Brown and Black cmf SAND, trace silt, trace mf Gravel	SP			0.0
15					(14.8-15.0') SILT & CLAY Reddish Brown and Gray cmf SAND, little silt, trace clay	SM			0.0
16					Dark Gray mf SAND, little Silt, trace f Gravel	SM			
17									
18			85		Dark Gray cmf SAND, Some cmf Gravel, trace Silt	SP			0.0
19					Yellowish Brown SILT, little mf Sand, little clay & Roots	ML/CL			0.0
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 36	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-26T	COORDINATES:	DATE: 10/27/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/29/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/27/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Dark Gray and white cmf Gravel, trace silt & clay w/ Pieces of Rock	F			PID (ppm) 0.0
1					White pieces of Rock				
2			63		Brownish Yellow cmf SAND little silt, trace mf Gravel w/ cinder, coal Ash	F			0.0 Qst-2.3'
3									
4					Black & Dark Gray cmf SAND & GRAVEL w/ coal Ash, cinder	F			0.0
5									
			67						
6					Black & Dark Gray cmf SAND, little Silt, trace cmf Gravel, trace silt/clay	F			57 odor
7					Dark Gray & Black cmf SAND				
8					Gray cmf SAND, little silt- trace clay and cmf Gravel trace brick (pieces) w/ Shell	SP			0.0
9									
10			100						
									0.0
11									
12					Dark Gray CLAY, little Silt	CL			

NOTES:

Screen - 1.5-11.5'. 2" scl 40 pvc screen 0.010
Riser - 0-1.5' 2" scl 40 pvc
sand pad 1-12'.
Bentnite 1-0-0.5'. Grout - 0-0.5'

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-26T	COORDINATES:	DATE: 10/27/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/27/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/27/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID (ppm))
13					Gray CLAY (silty clay)	CL			0.0
14			88		Dark Gray mpt SAND and SILT, little clay & piece of decomposed wood	CL Pt			0.0
15					organic SILT Decomposed wood				
16					End of the Boring at 16.0'				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-27	COORDINATES:	DATE: 05/03/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/03/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/03/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete slab				
1					Brown and Gray cmf SAND, little Silt, trace clay lg Pieces of Rock				
2					Dark Gray cmf SAND, little Silt, trace clay lg Pieces of Rock, shell	F			
3			67						
4					Red and Brown mf SAND, trace mf Gravel, trace Silt trace clay lg Pieces of shell	F			
5									
6			75		Dark Gray cmf SAND, little mf Gravel, trace Silt lg Pieces of Rock, Brick,				
7					↓				
8					Dark Gray cmf SAND, little Silt, trace mf Gravel, lg Pieces of shell, Rock	F			
9					↓				
10			46		lg Piece of shell	F			
11					Refusal at 11.0'				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-28	COORDINATES:	DATE: 05/03/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/03/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/03/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Gray cmf SAND, little Silt, trace mf Gravel, trace clay w/ Pieces of Rock	F			0.1 PPM
2			88		w/ Pieces of shell				
3					w/ Pieces of shell	F			
4					Gray cmf SAND, little Silt, trace mf Gravel w/				
5					Pieces of Rock, shell				
6			83		Dark Gray cmf SAND,	F			
7					little Silt, trace cmf Gravel w/ Pieces of shell				0.0 PPM
8					w/ Pieces of shell				
9					Dark Gray cmf SAND, little mf Gravel, trace Silt	F			
10			88		Brown clay (2" layer) w/ Pieces of shell				0.0 PPM
11					w/ Pieces of wood	F			
12					w/ Pieces of shell				

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-28	COORDINATES:	DATE: 05/03/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/03/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/03/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Reddish Brown CLAY, little Silt, trace mf Sand, trace mf Gravel w/ Pieces of Rock	F			
14			96		Brown mf SAND, little Silt, trace f Gravel	Till			0.0 PPM
15					Gray mf Sand w/ Pieces of Rock, coal				
16					Dark Brown cmf SAND, little Silt, trace mf Gravel				
17					Brown mf SAND, little Silt, trace clay	Till			
18			96		Yellowish Brown CLAY, little Silt, trace mf Gravel w/ pieces of Rock				0.0 PPM
19					↓				
20					End of the Boring at 20.0				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-29	COORDINATES:	DATE: 05/03/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/03/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/03/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Dark Gray cmf SAND, little cmf Gravel, trace Silt by Pieces of Rock, Shell Brick, cinder	F			0.0 PPM
2			83		Dark Brown cmf SAND, little mf Gravel, trace Silt by Pieces of Rock				
3									
4					Black cmf SAND, some Silt, trace clay				0.0 PPM
5					Dark Gray and Black mf SAND, some Silt, trace clay by Pieces of Rock	F			
6			54		Brown mf SAND				
7					by Piece of Wood by Piece of Concrete by Pieces of Wood, Brick	F			0.0 PPM
8									
9					Dark Gray cmf SAND, little mf Gravel, trace Silt by Pieces of Rock	F			
10			46						
11					Black Piece of Wood				0.0 PPM
12					Dark Gray mf SAND, little Silt, trace clay by Piece of Shell	F			

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-29	COORDINATES:	DATE: 05/03/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/03/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/03/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Dark Gray SILT, trace clay, trace f Sand				
					Red piece of wood, shell				0.0 PPM
14			88		Dark Gray cmf SAND, little Silt, trace clay				
15					light green cmf SAND, little Silt, trace clay				
16					light Green mf SAND, little Silt, trace clay				
17					light Green mf SAND, little Silt, trace clay				0.0 PPM
18			83						
19									
20					End of the Boring at 20.0 feet.				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-30	**COORDINATES:**	**DATE:** 04/30/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/30/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/30/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					Concrete - slab				
1					↑				
2					O				
3					P				
4					E				
					N ↓				
					Dark Gray cmf SAND, little Silt, little mf Gravel by pieces of wood, rock Piece of Concrete				
5									G.O PBH
6			75		Black and Brown cmf SAND, little mf Gravel, trace Silt, trace clay by coal ash, cinder, Brick				
7									G.O PBH
8					Brown cmf SAND, little cmf Gravel, trace Silt				
9					trace clay by Piece of Brick rock				
10			54		Dark Brown cmf SAND, and GRAVEL, trace Silt				G.O PBH
11					trace clay by Piece of Rock				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-30	COORDINATES:		DATE: 04/30/04
ELEVATION:	GWL: Depth:	Date/Time:	DATE STARTED: 04/30/04
ENGINEER/GEOLOGIST: Madhu Patel	Depth:	Date/Time:	DATE COMPLETED: 04/30/04
DRILLING METHODS: Geoprob Rig			PAGE: 2 OF 2

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Dark Gray CLAY and SILT, little mf Gravel & Piece of Rock	F			2 PPM
14			38		Black cmf SAND, little Silt, trace clay & piece of Rock, gravel.				
15					Piece of Concrete				
16					Dark Gray mf SAND & wood	F			
17			NR		No Recovery.	F			
18					Dark Gray mf SAND, little Silt, trace clay	SM			
19			42		Brownish Green cmf SAND, little Silt, trace clay	SP			0.0 PPM
20					End of the Boring at 20.0'				
21					clay				
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-31	COORDINATES:	DATE: 05/03/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/03/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/03/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
1					Concrete slab				
2					↑ O				
3					P				
4					E				
5					N				
6					↓				
7									
8									
9					Dark Gray and Brown cmf SAND, little Silt trace cmf Gravel, trace clay & Piece of shell	F			0.0 PPM
10			83		↓ trace clay				
11					↓ Black and Brown mf SAND, little silt, trace clay & Rocks	F			0.0 PPM
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW - 31	COORDINATES:	DATE: 05/03/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/03/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/03/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Gray cmf SAND, little Silt, trace clay by piece of wood, rock etc.	F			
14			21						
15									
16					Dark Gray cmf SAND, trace Silt by piece of Rock	F			0.3 ppm sheen
17									
18			54						
19									
20					Dark Gray cmf SAND, little Silt, trace f Gravel by piece of Rock	F			
21					Dark Gray mf SAND, little Silt, trace clay	SP			0.0 ppm
22			96		Dark Gray mf SAND, little Silt, trace clay				
23					by pieces of wood				
24					Dark Gray mf SAND, little Silt, trace clay				

NOTES: End of the Boring at 24.0'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-32	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Brownish Gray cmf SAND, little Silt, little cmf Gravel w/ piece of Asphalt, Concrete cinder, roots	F			0.1 PPM
2			63						
3					some Silt				
4					Brownish Gray cmf SAND, little Silt, trace clay, trace f Gravel.	F			
5									
6			75		Dark Brown mf SAND, little Silt, trace clay	F			0.2 PPM
7					w/ piece of shell				GWL 7.0'
8					w/ piece of wood				
9					Dark Gray cmf SAND, little Silt, trace cmf Gravel, trace clay	SP			0.0 PPM
10			66						
11					trace Silt/clay				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-32	COORDINATES:	DATE: 05/04/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 05/04/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 05/04/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
13					Dark Gray cmf SAND, little Silt, trace clay	SP			0.2 ppm
					Dark Gray SILT/CLAY				
14					mf Sand				
			83		SILT/CLAY	CL			0.0 ppm
15					mf Sand, trace Silt				
16					Dark Gray cmf SAND, little Silt, trace clay	SP			
17					SILT, little mf Sand, trace clay				0.0 ppm
			100		w/ Pieces of wood				
18									
19					Whitish Gray cmf SAND, little Silt, trace clay	SP			0.01 ppm
20					End of the Boring at 20.0 feet.				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OIN-33	**COORDINATES:**	**DATE:** 04/30/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/30/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/30/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
					8" Pieces of Concrete.				
1					Brown cmf SAND, little Silt, trace clay, trace mf Gravel w/ Pieces of concrete	F			0.0 PPM
2			42						
3					Brown cmf SAND, little Silt, trace mf Gravel w/ Pieces of concrete, Rock grass	F			
4									
5					Black cmf SAND and GRAVEL, little Silt, trace clay w/ Pieces of Rock, cinder, Coal ash.	F			0.0 PPM
6			46						
7									
8					Black cmf GRAVEL and SAND, trace Silt, trace ~~of~~ clay w/ Pieces of cinder, Rock, metal, Brick	F			
9									0.0 PPM
10			83						
11						F			
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-33	COORDINATES:	DATE: 04/30/04	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 04/30/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 04/30/04	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Black cmf SAND and GRAVEL, little silt & Piece of Brick, cinder, Rock.	F			7 PPM sheen
14			36						
15						F			
16					Black cmf GRAVEL and SAND, little Silt & Piece of Rock, cinder	F			
17									
18			88		Black SILT, little clay, little mf Gravel & Piecing Rock	ML			.2 PPM
19									
20					End of Boring at 20.0' feet				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: OW-34	**COORDINATES:**	**DATE:** 04/30/04	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 04/30/04	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 04/30/04	
DRILLING METHODS: Geoprob Rig		**PAGE:** 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
1					Dark Gray cmf SAND, Some cmf Gravel, little Silt w/ Pieces of Rock	F			
2			42		w/ metal, wood	F			0.0 PPM
3					w/ Bricks, wood.				
4					w/ wood.				
5					Dark Gray cmf SAND, little Silt and clay, little cmf Gravel w/ Pieces of concrete, Brick	F			0.0 PPM
6			54						
7					w/ Piece of Brick	F			
8					w/ Bricks				0.0 PPM
9			21		Dark Gray cmf SAND, little Silt, little cmf Gravel w/ Pieces of Rock, Brick, concrete, wood, metal	F			
10					↓				
11					Refusal at 10.5' (feet)				
12									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-01	COORDINATES:	DATE: 11/13/03	
ELEVATION: 9.03'	GWL: Depth: Date/Time:	DATE STARTED: 11/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/13/03	
DRILLING METHODS: ~~Geoprob~~ Rig Hollow stem Augers - split spoon Sampler		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
1					Brown and Green mf SAND, little Silt & Pieces of Rock, concrete, wood	F			0.0
2									
3									
4									
5	S-1	5-7'							
		6			Brown and Green mf SAND, some Silt, little clay & Pieces of Rock and concrete	F			0.0
6		F	90						
		6							
		6							
7									
8									
9									
10	S-2	10-12			Dark Gray clay SAND, little Silt, trace clay & Pieces of Shell	SM			0.0
		4							
11		3	75						
		4							
12		5							

NOTES: Shelby Tube. 2" diameter. 2.00 feet length.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000		PROJECT NAME: Former General Motors, Sleepy Hollow, New York	
BORING NUMBER: GT-01		COORDINATES:	DATE: 11/13/03
ELEVATION:		GWL: Depth: Date/Time:	DATE STARTED: 11/13/03
ENGINEER/GEOLOGIST: Madhu Patel		Depth: Date/Time:	DATE COMPLETED: 11/13/03
DRILLING METHODS: Geoprob-Rig Hollow stem Auger. Split spoon Sample			PAGE: 2 OF 3

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13	ST 1	P U S H	100		Dark Gray SILT/SAND/ CLAY	SM/ SP			0.0
14									
15	ST 2	P U S H	100		Dark Gray SILT/SAND/ CLAY	SM			0.0
16					CLAY				
17		1 1 2 3	90		Dark Gray mf SAND, some Silt, trace clay w Pieces of shell	SM			0.0
18									
19									
20	S-4	WOR WOR			Dark Gray & Brown CLAY with decomposed wood	CL/PT			0.0
21		2	95						
22	S-5	2 WOR			Dark Gray CLAY w	CL			
23		WOR			Pieces of decomposed wood	CL/PT			0.0
24		2 2	65						

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000 76	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-01	COORDINATES:	DATE: 11/13/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/13/03	
DRILLING METHODS: ~~Geoprob Rig~~ Hollow stem Auger. split spoon Sample		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID ppm)
25	S-6	WOR			Dark Gray CLAY, little f sand w/ piece of decom.				0.0
		WOR	100		piece of wood				
		2			Dark Gray CLAY	CL			
26		2							
	ST-3	P			Dark Gray CLAY				0.0
27		U	95			CL			
		S							
		H							
28					End of the Boring at 28.0				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276630000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-02	COORDINATES:		DATE: 11/13/03
ELEVATION: 10.19'	GWL: Depth: Date/Time:		DATE STARTED: 11/13/03
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:		DATE COMPLETED: 11/13/03
DRILLING METHODS: Geoprob Rig			PAGE: 1 OF 4

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
0					Fill material.				
1									
2									
3									
4									
5	S-1	5-7' 2 2			Dark Gray & Brown cmf SAND, little silt, trace clay, mf Gravel & piece	F			0.0
6		2 3 4	25		of Rock, wood etc				
7									
8									
9									
10	S-2	10-12' 2			Gray mf SAND, little cmf Gravel & coal	F			0.0
11		4/10"	28		Ash, cinders, Rock				
12									

NOTES: 10-12' - Very hard material

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-02	COORDINATES:	DATE: 11/13/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/13/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/13/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 4	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
13									0.0
14									
15	S-3	15-17 17			Dark Gray & Greey cmf SAND, little Silt, trace clay	SM			0.0
16		10	50						
17	S-4	9 8 17-19' 3			Dark Gray cmf SAND, little silt, trace clay & piece of wood	SP/SM			0.0
18		4 2	75		Gray mf SAND, some Silt, trace clay				
19		2							
20	ST	P U S H	HR		Shelby Tube failed.				0.0
21	ST-1	P U			Gray mf SAND, some Silt	SM			0.0
22		S H	95						
23	ST	P U S H	NR		Shelby Tube failed.				0.0
24									

NOTES: 19-21'. Shelby Failed.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-02	COORDINATES:	DATE: 11/14/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 4	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
25	ST 2	P U S H	100		Dark Gray SILT with Sand (silty sand).				
27	S-5	27-29 WOR WOR			Dark Gray mf SAND, little Silt				0.0
28		4 4			Dark Gray mf SAND little SAT of decomposed wood	SM			0.0
29						SM/PT			
30	S-6	WOR WOR			Organic SILT, trace clay of pieces of decomposed wood	PT CL			0.0
31		2 2							
32	S-7	W				CL/PT			
33		O H			Dark Gray CLAY of pieces of decomposed wood.				0.0
34	S-8	WOH WOH							
35		2							
36		2			CLAY, trace decomposed wood	CL			

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276830000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-02	COORDINATES:	DATE: 11/14/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/14/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/14/03	
DRILLING METHODS: Geoprob Rig		PAGE: 4 OF 4	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
37	ST G	P U S H	100		Dark Gray CLAY	CL			
38					End of the Boring at 38.0'				
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276980000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-03	COORDINATES:	DATE: 11/14/03	
ELEVATION: 8.12'	GWL: Depth: Date/Time:	DATE STARTED: 11/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/17/03	
DRILLING METHODS: Geoprob Rig Hollow stem Auger. split spon Sampling		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
1					Fill Material				
2									
3									
4									
5	S-1	5-7			Black & Dark Gray cmf SAND, little clay, trace mf Gravel of coal Ash, cinder	F			0.0
6		2	50						
		2							
		9							
7		3							
8									
9									
10	S-2	10-12			Dark Gray cmf SAND, and cmf Gravel of Pieces of Rock	F			0.0
		2							
11		2	25						
		2							
12		1							

NOTES: Shelby Tube - 2" Diameter. 2 Feet length.

SOIL BORING LOG

amec

PROJECT NUMBER: 276080000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-03	COORDINATES:	DATE: 11/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/17/03	
DRILLING METHODS: Geoprob Rig Hollow Stem Auger. split spoon Sampler		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS (PID CROM)
13	S-3	12-14 WOH 1 WOR	45		Dark Gray & Brown cmf SAND, some cmf Gravel of coal Ash, cinder	F			0.0
14	S-4	14-16 WOH							
15		2			No Recovery.				
16		1 1							
17	ST-1	P U S H	100		Dark Gray cmf SAND little Silt.	SP			0.0
18									
19	ST-2	P U S H	100		Dark Gray cmf SAND, little Silt of Pieces of shell	SP			0.0
20	S-5	WOR WOH			Dark Gray cmf SAND, little Silt, trace clay				
21		3 5							0.0
22					Brown Organic SILT, trace clay of Pieces of decomposed wood.	PT			0.0
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: GT-03	COORDINATES:	DATE: 11/17/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 11/17/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 11/17/03	
DRILLING METHODS: Geoprobe Rig Hollow stem Auger. split spoon Sampling		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
25	S-6	WOH			Brown / Gray Organic silt w/ clay & Pieces of decomposed wood				0.0
		WOH							
		2	90						
		3							
26	S-7	1			Dark Gray CLAY w/ Pieces of decomposed wood	CL/PT			0.0
		2							
27		2	100						
		1							
28	S-8	WOH			Dark Gray CLAY, trace decomposed wood.	CL			0.0
		1							
29		1	100						
		1							
30	ST	P							
	3	U			CLAY, trace - Pieces of decomposed wood	CL			0.0
31		5	90						
		H							
32					End of the Boring at 32.0'				
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-1W (36)	COORDINATES:	DATE: 10/20/03	
ELEVATION: 8.65'	GWL: Depth: Date/Time:	DATE STARTED: 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/20/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 1	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
						F			PID ppm 0.0
1					Dark Gray cmf SAND, trace Silt, trace cmf Gravel w Pieces of concrete				Bentonite Riser
2			75		concrete Slab (2-3')				
3					Coal Ash / Cinders	F			0.0
4					Black and Brown cmf SAND, little Silt, trace mf Gravel				
5					Black cmf SAND, little cmf Gravel, trace Silt w Pieces of Rock.	SP			
6			79		Dark Gray CLAY, little Silt trace mf Sand	CL			GWL-6.0'
7					Dark Gray cmf SAND, little Silt, trace clay	SP SM			0.0
8									Sand pack
9					Dark Gray mf SAND, little Silt, trace mf Gravel, trace clay	SP			Screen
10			38						0.0
11									
12					Dark Gray CLAY and Silt trace mf Sand	CL			

NOTES:

Screen- 2-12' - 1.5ct 40 PVC 0.010" slott
0-2' - sch 40 PVC Riser
1-12' - Sand pack
0.5-1.0 - Bentonite

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-20	COORDINATES:	DATE: 10/20/03	
ELEVATION: 9.89'	GWL: Depth: Date/Time:	DATE STARTED: 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/20/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Gray and white cmf SAND, little Silt, trace clay w/ Pieces of Rock, wood, brick etc	F			0.0 Bentonite Riser
2			83		Whitish Gray cmf SAND little cmf Gravel, trace Silt w/ Pieces of Rock				0.0
3						F			
4					Dark Brown cmf SAND, little cmf Gravel, trace silt & clay w/ Pieces of Rock, wood, Brick etc				
5						I			
6			79		w/ Pieces of Brick				0.0
7					w/ Pieces of Concrete	F			GWL- 7.0'
8					w/ Coal Ash w/ Concrete				
9					Brown and Yellow mf SAND, little Silt, trace f Gravel w/ Pieces of Rock	F			0.0
10			79						Sand pack
11					Black & Dark Gray cmf SAND, little Silt, trace f Gravel	F			Screen
12					w/ Pieces of Wood				

NOTES:

Screen, 2-16'-2 sch 40 PVC, 0.010 slot
Riser, 0-2', 2' sch 40 PVC.
Sand pack - 1.0 - 16
Bentonite - 0.5 - 1.0

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-2W	COORDINATES:	DATE: 10/20/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/20/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Gray cmf SAND, little cmf Gravel, trace Silt & clay w/ Pieces of Rock	F			PID (ppm) 0.0
14					Dark Gray & Black cmf SAND, little Silt, trace mf Gravel w/ Pieces of Rock & wood				14.5' to 16.5'
15					Black cmf SAND, little cmf Gravel, trace silt w/ Pieces of Rock, cinder	F			Oily
16									6.3
17					Brown Organic SILT w/ Pieces of decomposed wood (Peat)	Pt			
18									
19									
20					End of the Boring at 20.0				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-3W	COORDINATES:	DATE: 10/20/03	
ELEVATION: 7.37'	GWL: Depth: Date/Time:	DATE STARTED: 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/20/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
0					Concrete slab				
1					Dark Gray and Brown cmf SAND, little Silt, trace clay trace mf Gravel & Pieces of Rock, wood	F		Bentonite 0.0 Riser	
2			40						
3					Black cmf SAND, little Silt, trace clay & Pieces of Rock				
4									GSL-4.0
5					Dark Gray cmf SAND, little mf Gravel, trace Silt & Pieces of shell, wood Rock.	F			0.0
6			67						
7					Black Coal Ash / Cinder				faint odor
8					Dark Gray & Brown cmf SAND, little Silt & clay & Rock Gravel			Screen	
9					Black and Dark Gray mf SAND, little Silt, trace clay	F		Sand pack	
10			75						0.0
11					Gray mf SAND, little Silt, trace clay				
12					Black and Dark Gray cmf SAND, little mf Gravel Brick Cockest. Cinder				

NOTES:

Screen - 2.12' - Sch 40 PVC Slot
Riser - 0.2' - 1" sch 40 PVC.
Sand pack - 1-12'
Bentonite - 0.5 - 1.0

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-3W	**COORDINATES:**	**DATE:** 10/20/03	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 10/20/03	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13					Dark Gray mf+ SAND little Silt, trace clay	SM			PID 0.0 ppm
14			83		Dark Gray mf+ SAND, Some Silt, trace clay by decomposed leave.	SM			0.0
15									
16					End of the Boring at 16.0				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-4W	COORDINATES:	DATE: 10/20/03	
ELEVATION: 9.79	GWL: Depth: Date/Time:	DATE STARTED: 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/20/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
1					Dark Gray cmf SAND, little cmf Gravel & Pieces of Rock, wood. Concrete cinder	F		Bentonite / Riser	0.0
2			42		Dark Brown & Yellowish cmf SAND, little Silt, trace mf Gravel, trace wood. Rock	F			0.0
3									
4					Brownish Yellow cmf SAND, little clay, trace Silt & Pieces of Rock	F			0.0
5									
6			63						
7					Dark Gray cmf SAND, little Silt, little cmf Gravel trace clay & Pieces of Rock	F			Faint odor
8					Dark Gray cmf SAND, Some Silt, trace clay & Pieces of whit shell	SP			0.0
9								Sand pack / screen	
10			67		Dark Gray SILT, little clay little mf Sand, trace f Gravel	ML			0.0
11									
12					Dark Gray CLAY & SILT	CL/ML			

NOTES:

Screen: 2-12' - 1" sch 40 PVC 0.010" s/o
Riser: 0-2' 1" sch 40 PVC
Sandpack - 1-12'
Bentonite - 0.5-1.0

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 16	**PROJECT NAME:** Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-4W	**COORDINATES:**	**DATE:** 10/20/03	
ELEVATION:	**GWL:** Depth: Date/Time:	**DATE STARTED:** 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	**DATE COMPLETED:** 10/20/03	
DRILLING METHODS: Geoprob Rig		**PAGE:** 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
13					Dark Gray mf SAND, little Silt, trace clay				0.0
					Dark Gray CLAY, little F Sand				
14					Dark Gray CLAY, little Silt, trace F Sand	ML CL			
15									
					Black mf SAND, little Silt	SM			
16					End of the Boring at 16.0				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI.5W	COORDINATES:	DATE: 10/20/03	
ELEVATION: 8.94'	GWL: Depth: Date/Time:	DATE STARTED: 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/20/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
0					Dark Gray cmf SAND, little Silt, trace clay & Pieces of concrete, Rock concrete				
1									
2			75		Dark Brown and Gray cmf SAND, some mf Gravel, trace Silt & Pieces of Rock wood				Bentonite 0.0
3									Sand Pack
4					Black and Dark Gray cmf SAND, little cmf Gravel, trace Silt & clay & concrete, wood				
5									Riser 0.0
6			79		Brown cmf SAND, little f Gravel, trace Silt & clay & Rock				GWL 7.0'
7									
8					Dark Gray cmf SAND, little f Gravel, trace Silt/clay				
9					Dark Gray & Brown cmf SAND, little f Gravel, trace Silt/clay				0.0
10			65		Dark Gray mf SAND, little Silt, trace clay				Screen
11					Dark Gray CLAY & SILT, trace f Sand				
12					Dark Gray cmf SAND, little Silt, trace clay				

NOTES: Oil/H_2O shake Test - Performed

2-15' - Sand Pack
1-2' - Bentonite

Screen - 5-15'. 1" sch 40 PVC. 0.01" slot
Riser - 0-5' - Riser

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-5W	COORDINATES:	DATE: 10/20/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/20/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/20/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
13					Dark Gray cmf SAND, little Silt and clay	SM			00
					Dark Gray f SAND, little Silt, trace clay	SM			
14			67			SM/CL			
15					Dark Gray CLAY and SILT, trace mf Sand	CL			
16					End of the Boring at 16.0				
17									
18									
19									
20									
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276930000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-6W	COORDINATES:	DATE: 10/21/03	
ELEVATION: 10.08'	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
1					Dark Gray and Brown cmf SAND, little cmf Gravel trace Silt cy Pieces of Rock Brick, wood etc				0.0
2			42		White & Black cmf SAND little mf Gravel, trace Silt cy Pieces of Rock, wood				Bentonite
3					Dark Gray & Yellow cy SAND, little mf Gravel, trace Silt cy Piece of Rock, wood				
4									0.0
5					wood Red Brick				
6			67		Black cmf SAND, little mf Gravel, little Silt/clay cy Pieces of Rock, cinder, Brick				
7									GWL 7.0'
8									Sandpack
9									Screen
10			38						
11					Black cmf SAND, little cmf Gravel, trace Silt cy Pieces of Rock, wood cinder.				0.0
12									

NOTES:

Screen - 1" scl 40 PVC : 0.010" slott, 5-15'
Riser - 1" scl 40 PVC 0-5'
Sandpack - 3-15' -
Bentonite - 2-3' -

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-6W (36)	COORDINATES:	DATE: 10/21/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID CPBW2
13					Dark Gray cmf SAND, little cmf Gravel & clay. cinder, Rock	F			10.20.12.12 oily
14			42		Dark Gray mf SAND, Some Silt, trace clay	SM			
15									
16					Dark Gray cmf SAND, little Silt, trace clay	SM			0.0
17									
18			75		Black cmf SAND, trace Silt & pieces of decomposed Wood	SP/PT			
19					Black cmf SAND				0.0
20					End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276090000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-7W	COORDINATES:	DATE: 10/21/03	
ELEVATION: 14.24'	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
0					6". Concrete slab			0	
					light yellow cmf SAND, little cmf Gravel, trace Silt	F			0.0
1									
2			52						
					Brownish yellow cmf SAND, little Silt, trace clay, trace f Gravel	F			0.0
3									
4					Yellowish Brown SILT & CLAY, trace f Sand w/ Pieces of Rock, wood.	F			0.0
5									
6			67						
7									
					w/ Pieces of Concrete				0.0
8					Red and yellowish Brown cmf SAND, & SILT, trace clay w/ Pieces of Rock	F			
9									
10			75		Red and yellowish Brown cmf SAND, little silt, trace clay layers of silt/clay/sand				0.0
									GWL-10.0
11									
12									

NOTES: Oil) H_2O Shake Test - Performed.

Sandpack - 5-18'

Bentonite - 0-3'

Screen - 8-18' a 1" sch 40 PVC - 0.010"

Riser - 0-8' - sch 40 PVC Riser.

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-7W	COORDINATES:	DATE: 10/21/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (PPM)
13					Reddish Brown cmf SAND, little cmf Gravel, trace Silt				0.0
14			76		Red and Dark Gray cmf SAND, and mf Gravel trace Silt				0.0
15									
16					Multi colored cmf GRAVEL little cmf Sand, trace silt trace clay				0.0
17									
18			73						
19									
20					Lg Pieces of Weathered Rock. End of the Boring at 20.0'				
21									
22									
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 32	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-8W	COORDINATES:	DATE: 10/21/03	
ELEVATION: 13.58'	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
					Concrete slab				
1									
2					O				
3					P				
4					E				
5					N				
6					Ground level				
7					Multi colored mf GRAVEL, some cmf Sand & Pieces of shell	F			PGL 0.0
8									
9			67		Dark Gray cmf SAND, little cmf Gravel, trace Silt & Piece of Rock, Shell etc.	F			
10									Bentonite
11									Riser Sandpack
12					Dark Gray cmf SAND, little mf Gravel, trace Silt & Pieces of White shell	F			0.0

NOTES: Oil/H2O Shake Test - Performed
0-7'. Open hole.

Screen: 12-22' - 1" scl 40 PVC 0.010"
Riser: 0-12' - 1" scl 40 PVC
Sandpack - 10-22'
Bentonite - 9-10

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-8W	COORDINATES:	DATE: 10/21/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
13			75		Dark Gray cmf SAND, little cmf Gravel, trace Silt w Pieces of White shell	SP			PID (ppm) 00
14									
15									
16					Dark Gray cmf SAND, little mf Gravel, trace Silt w Pieces of White shell	SP			00
17					Dark Gray mf SAND, little Silt, trace f Gravel, trace clay w Pieces of shell				
18			75		Yellowish Brown cmf SAND, little Silt, trace clay	SM			screen
19									
20					Brownish Yellow cmf SAND, little Silt, trace cmf Gravel trace clay	SP			00
21			46						
22					End of the Boring at 22.0'				
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-9W	COORDINATES:	DATE: 10/21/03	
ELEVATION: 13.55	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 2	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
					Concrete slab				
1									
2					O				
3					P				
4									
5					E				
6									
7					N				
8					Black and Dark Gray cmf SAND, little cmf Gravel, trace Silt w/ Pieces of Rock	F			Ground surface; 00
9									
10			67		w/ pieces of Concrete Black cmf SAND, little cmf Gravel, trace Silt & clay w/ Pieces of whit shell etc	F			Bentonite; Riser; 00
11									Sandpack
12									

NOTES: oil) H_2O shake Test. Performed

Sand pack - 10-22'
Bentonite - 9-10'
Screen - 12-22' - 1" sch 40 PVC - 0.010"
Riser - 0-12' - 1" sch 40 PVC

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 (36)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-9W	COORDINATES:	DATE: 10/21/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS
									PID (ppm)
13					Black cmf SAND, little cmf Gravel, little Silt, trace clay w/ Pieces of Rock, wood, cinder w/ Pieces of Rock				00
14			75						
15									GOL-1.0
16									Screen
17					No Recovery				Sheen
18			60						
19					Dark Gray cmf SAND, little Silt, trace mf Gravel trace clay				00
20					Gray cmf SAND, little Silt, trace clay				
21									
22			65						
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-9W	COORDINATES:	DATE: 10/21/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/21/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/21/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS
25					light gray mf SAND, little Silt, trace f Gravel				PID (ppm) 0.0
26			75						
27									
28					End of Boring at 28.0'				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000 (26)	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-10D	COORDINATES:	DATE: 10/22/03	
ELEVATION: 13.52'	GWL: Depth: Date/Time:	DATE STARTED: 10/22/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/22/03	
DRILLING METHODS: Geoprob Rig		PAGE: 1 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (ppm)
					Concrete slab				
1									
2					O				
3									
4					P				
5					E				
6					N				
7									Ground Surface
8					Dark Gray mf SAND, little Silt, trace cm Gravel & Pieces of coal ash, cinder Rock				0.0
9									Riser
10			13		Brown cmf SAND, little cmf Gravel, trace Silt- Black				Bentonite 0.0
11									Sandpack
12					& Pieces of Concrete				

NOTES:

Screen: 11.5 - 21.5'. 1" sch 40 PVC 0.010"
Riser: 0 - 11.5'; 1" sch 40 PVC Riser
Sandpack: 10 - 22'
Bentonite: 9 - 10'

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-10W	COORDINATES:	DATE: 10/22/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/22/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/22/03	
DRILLING METHODS: Geoprob Rig		PAGE: 2 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSTRUCTION	REMARKS PID (ppm)
13					Dark Gray & Brown cmf SAND, little silt/clay w/ Pieces of Rock, concrete.				0.0 G.W.L. 13.0
14			18		w/ Pieces of concrete, Rock				
15									screen
16					Dark Gray cmf SAND, little clay, little cmf Gravel trace Silt w/ Pieces of Rock				0.0
17									
18			NR		No Recovery				
19									
20									
21									
22			NR		No Recovery				
23									
24									

NOTES:

SOIL BORING LOG

amec

PROJECT NUMBER: 276030000	PROJECT NAME: Former General Motors, Sleepy Hollow, New York		
BORING NUMBER: SI-GWI-10.N	COORDINATES:	DATE: 10/22/03	
ELEVATION:	GWL: Depth: Date/Time:	DATE STARTED: 10/22/03	
ENGINEER/GEOLOGIST: Madhu Patel	Depth: Date/Time:	DATE COMPLETED: 10/22/03	
DRILLING METHODS: Geoprob Rig		PAGE: 3 OF 3	

DEPTH (FT.)	SAMPLE	BLOWS ON SAMPLER (6 IN.)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY	WELL CONSRUCTION	REMARKS PID (PPM)
25					Brown Organic silt & Pieces of decomposed wood.				0.0
26			77		Peat				
27									
28					End of Boring at 28.0'				
29									
30									
31									
32									
33									
34									
35									
36									

NOTES:

ARCADIS

Appendix E

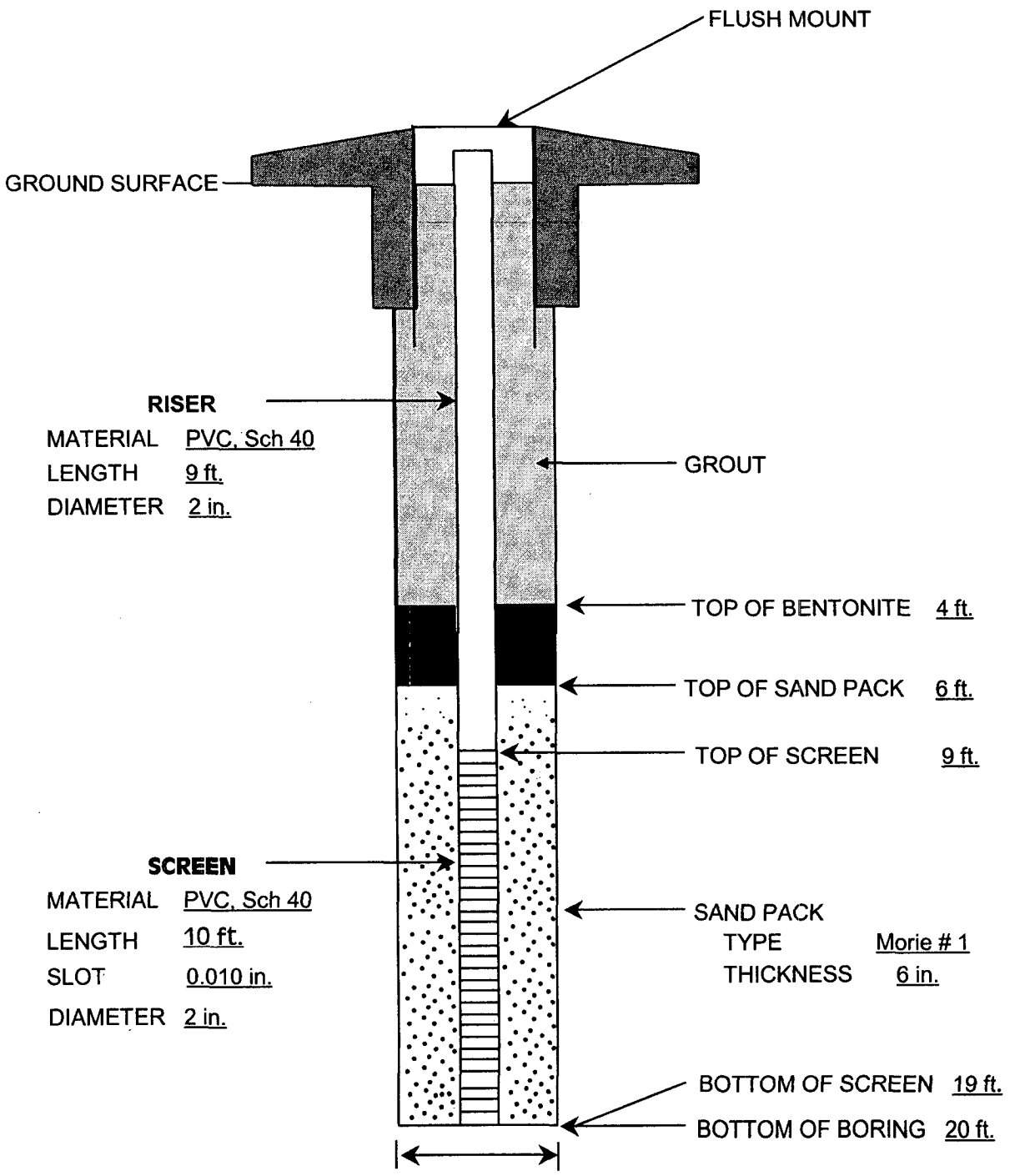
Monitoring Well Construction Diagrams – Remedial Investigation

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 10/24/03 WELL NUMBER: OW-24

PROJECT NUMBER: 276360000 DRILLING COMPANY: B&B, Inc. METHOD: H. S. Auger

REMARKS: Geoprobe Hollow Stem Rig INSPECTOR: M. Patel



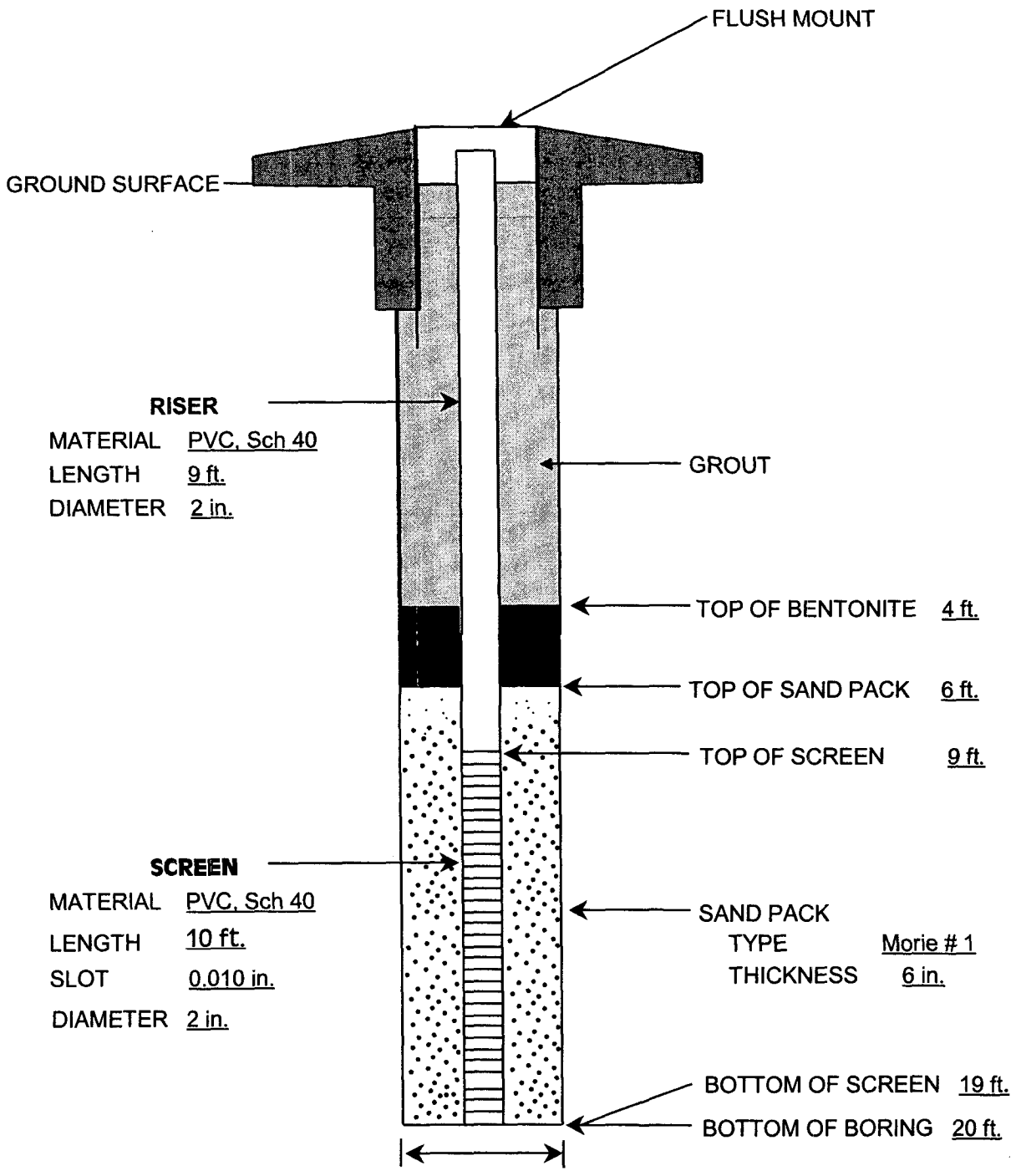
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 10/23/03 WELL NUMBER: OW-25

PROJECT NUMBER: 276360000 DRILLING COMPANY: B&B, Inc. METHOD: H. S. Auger

REMARKS: Geoprobe Hollow Stem Rig INSPECTOR: M. Patel



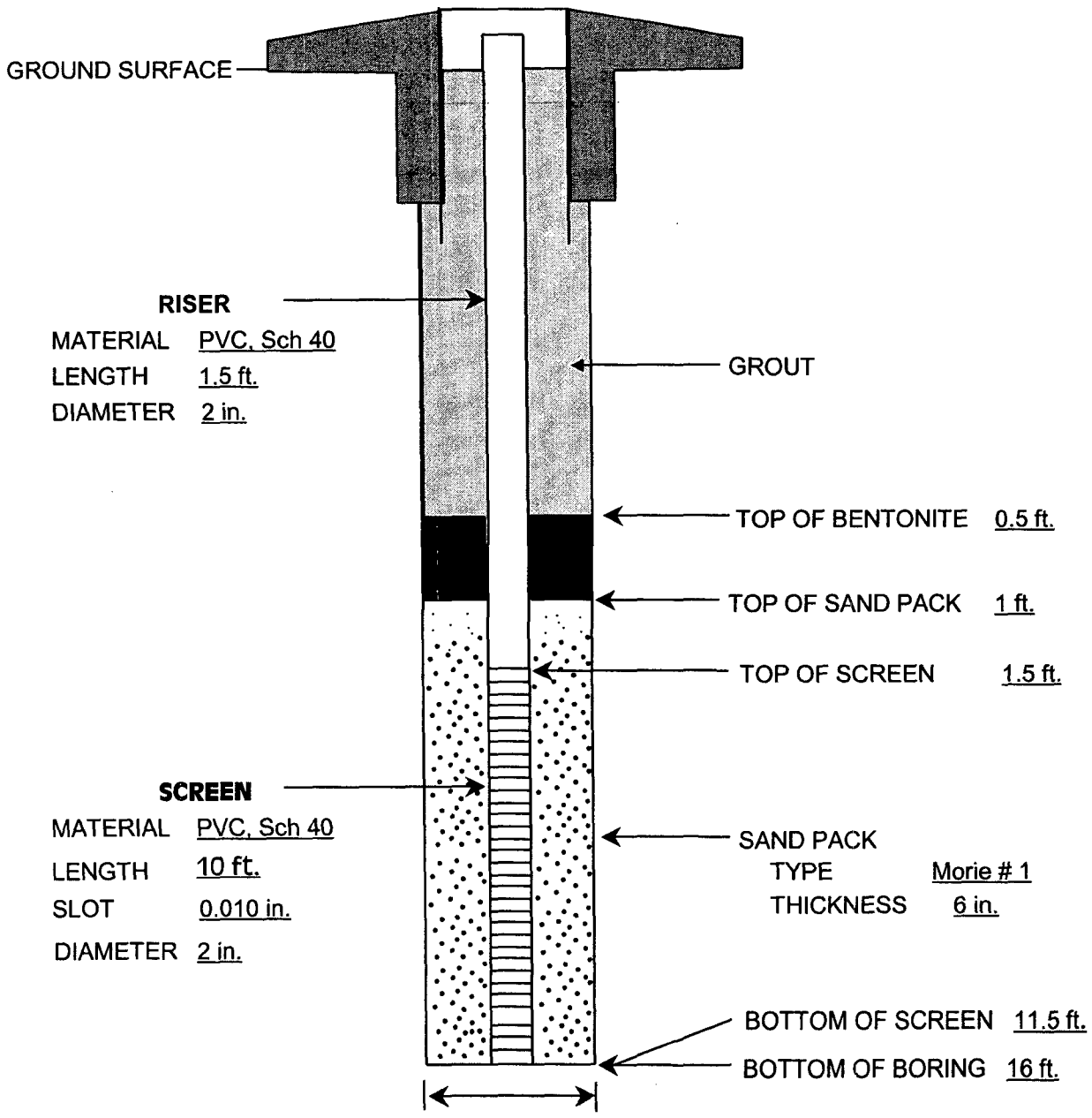
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 10/26/03 WELL NUMBER: OW-26T

PROJECT NUMBER: 276360000 DRILLING COMPANY: B&B, Inc. METHOD: H. S. Auger

REMARKS: Geoprobe Hollow Stem Rig - Temporary Monitor Well INSPECTOR: M. Patel



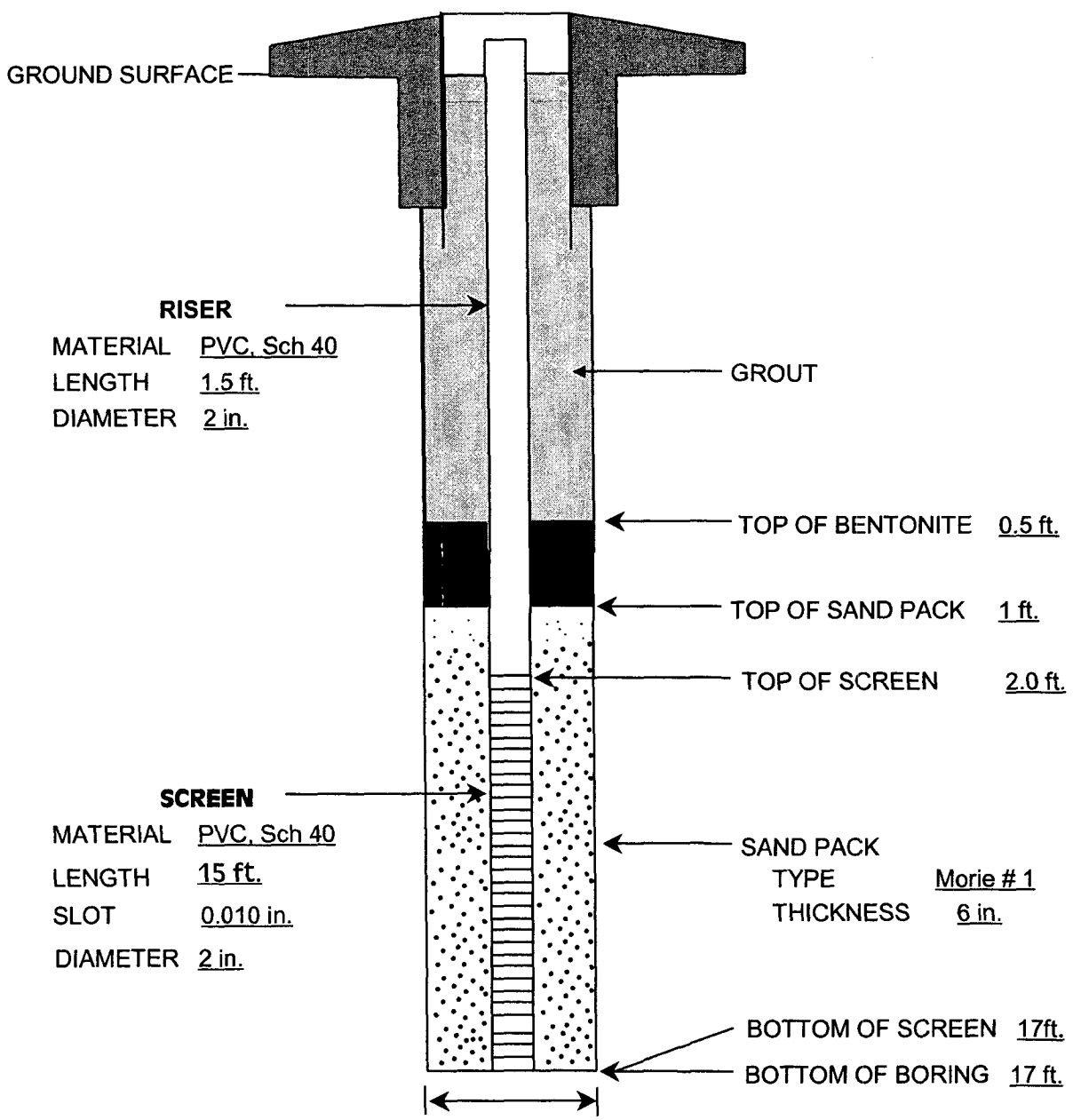
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/03/04 WELL NUMBER: OW-27

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



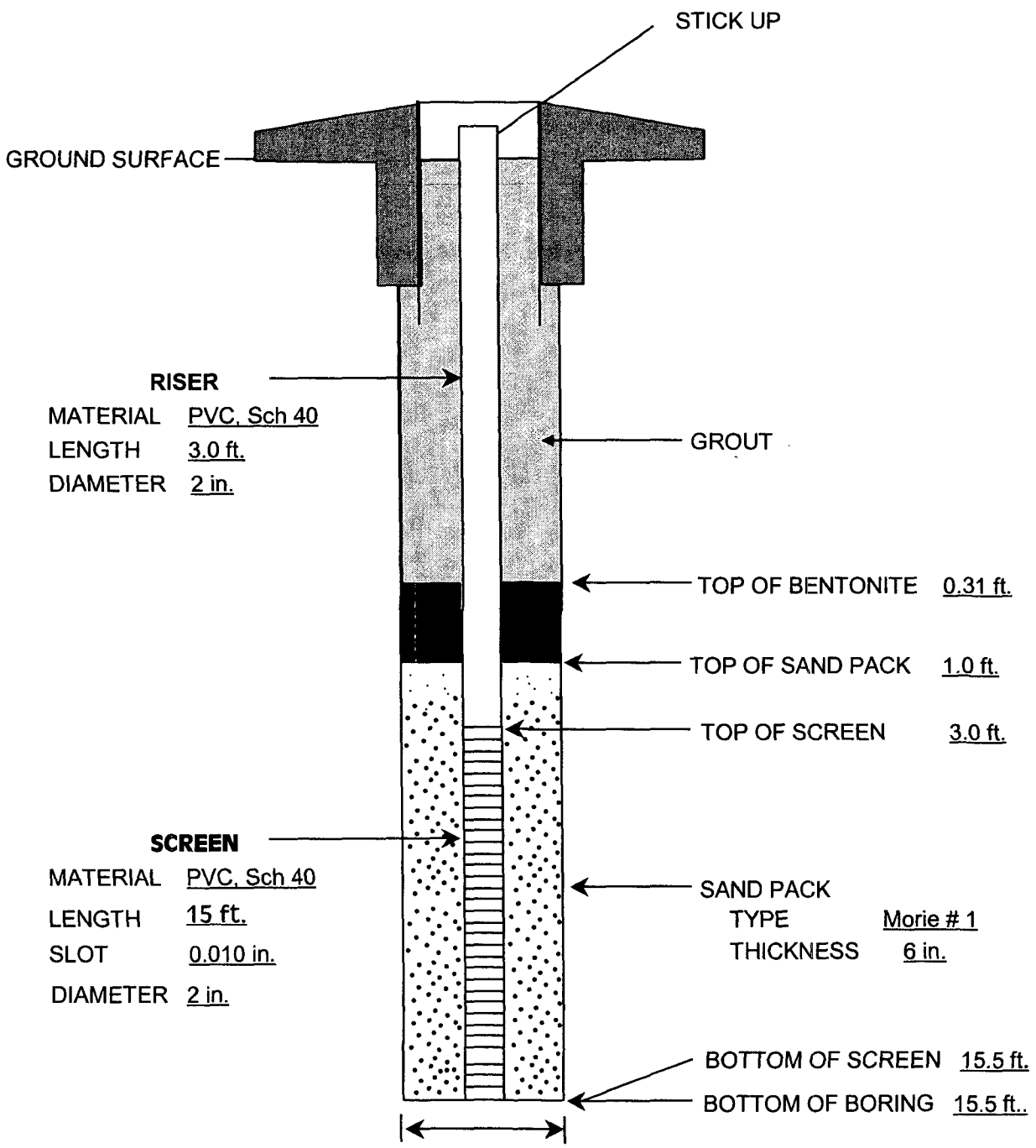
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/06/04 WELL NUMBER: OW-28

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



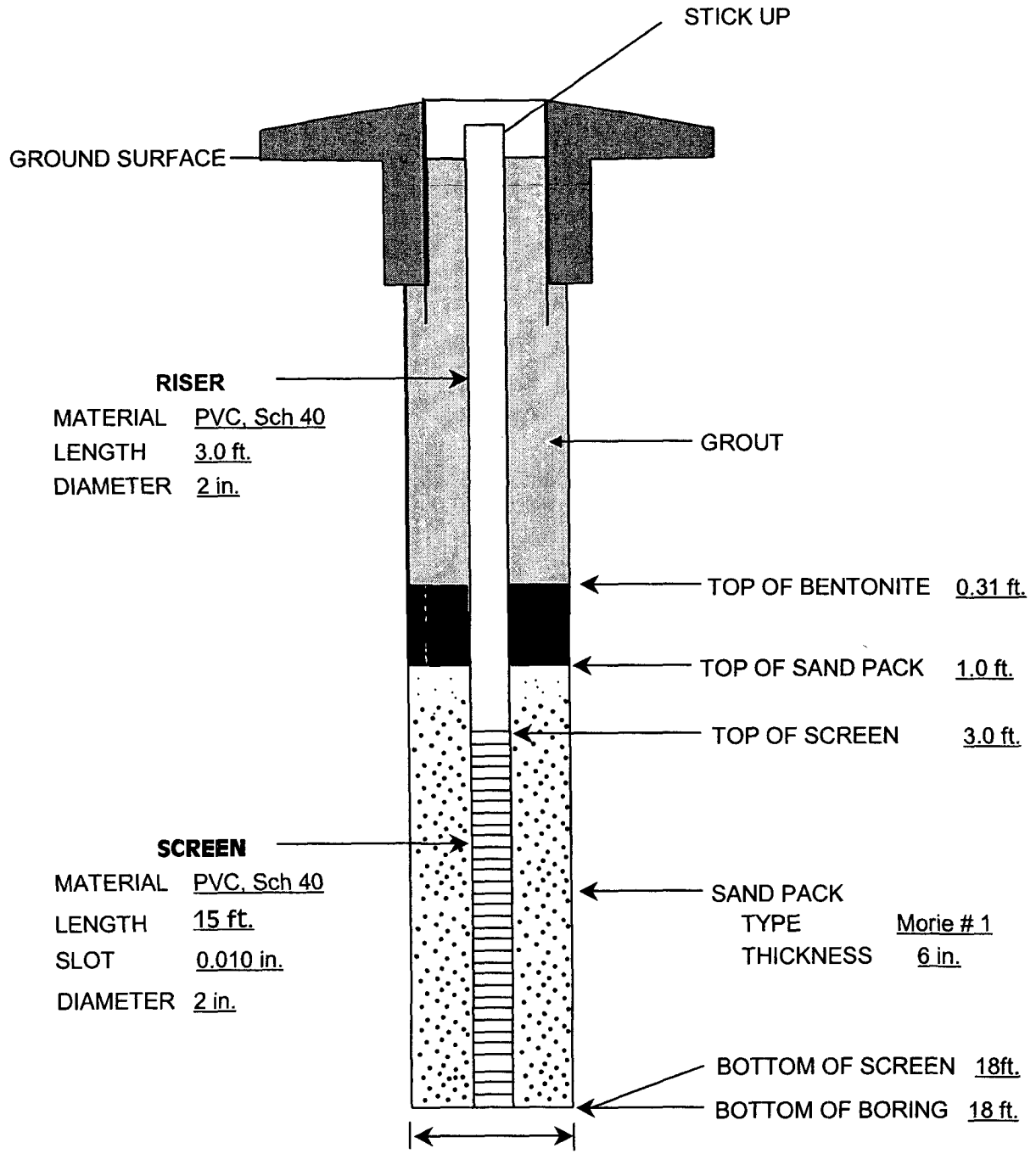
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/04/04 WELL NUMBER: OW-29

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



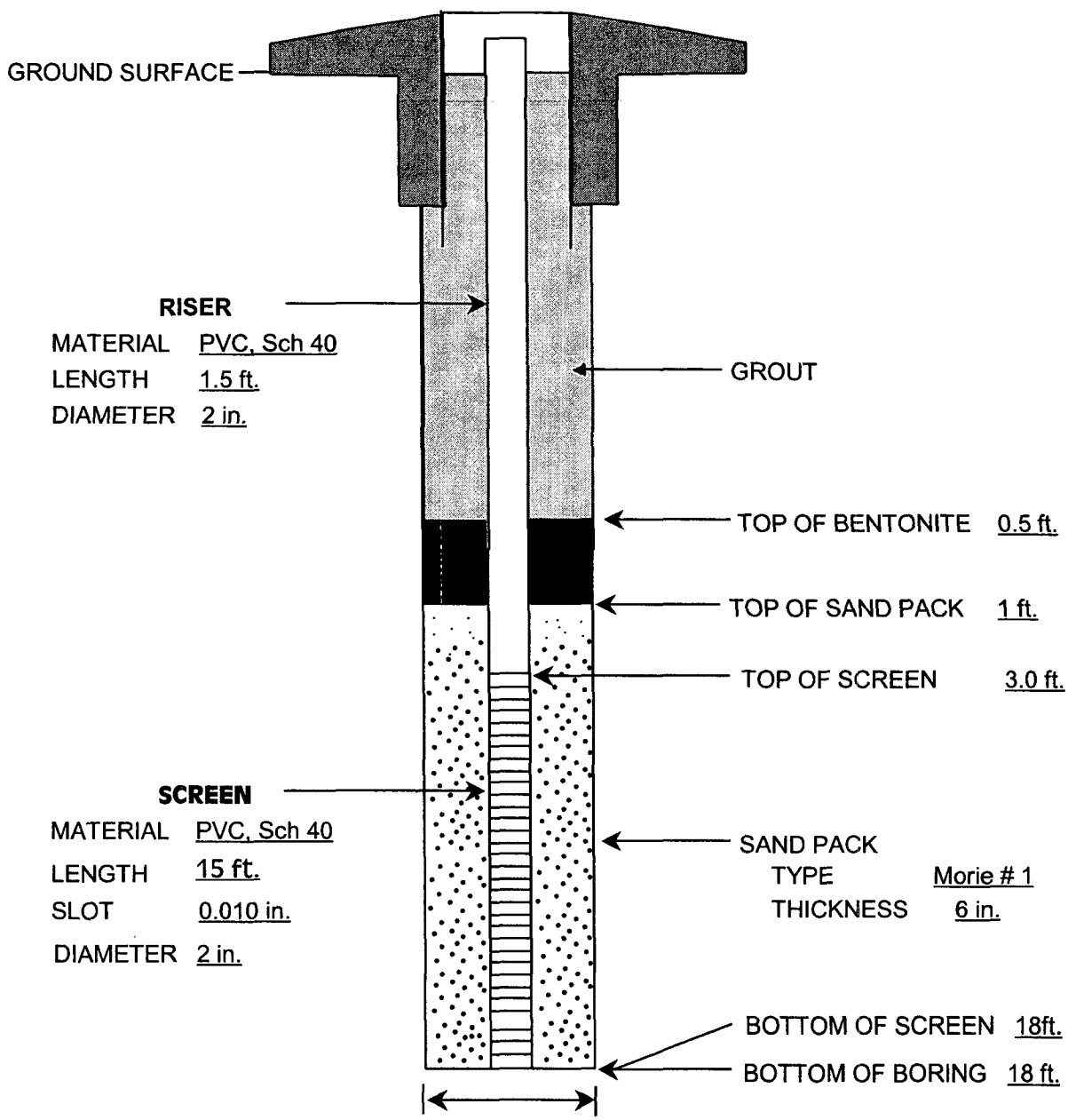
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/04/04 WELL NUMBER: OW-30

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



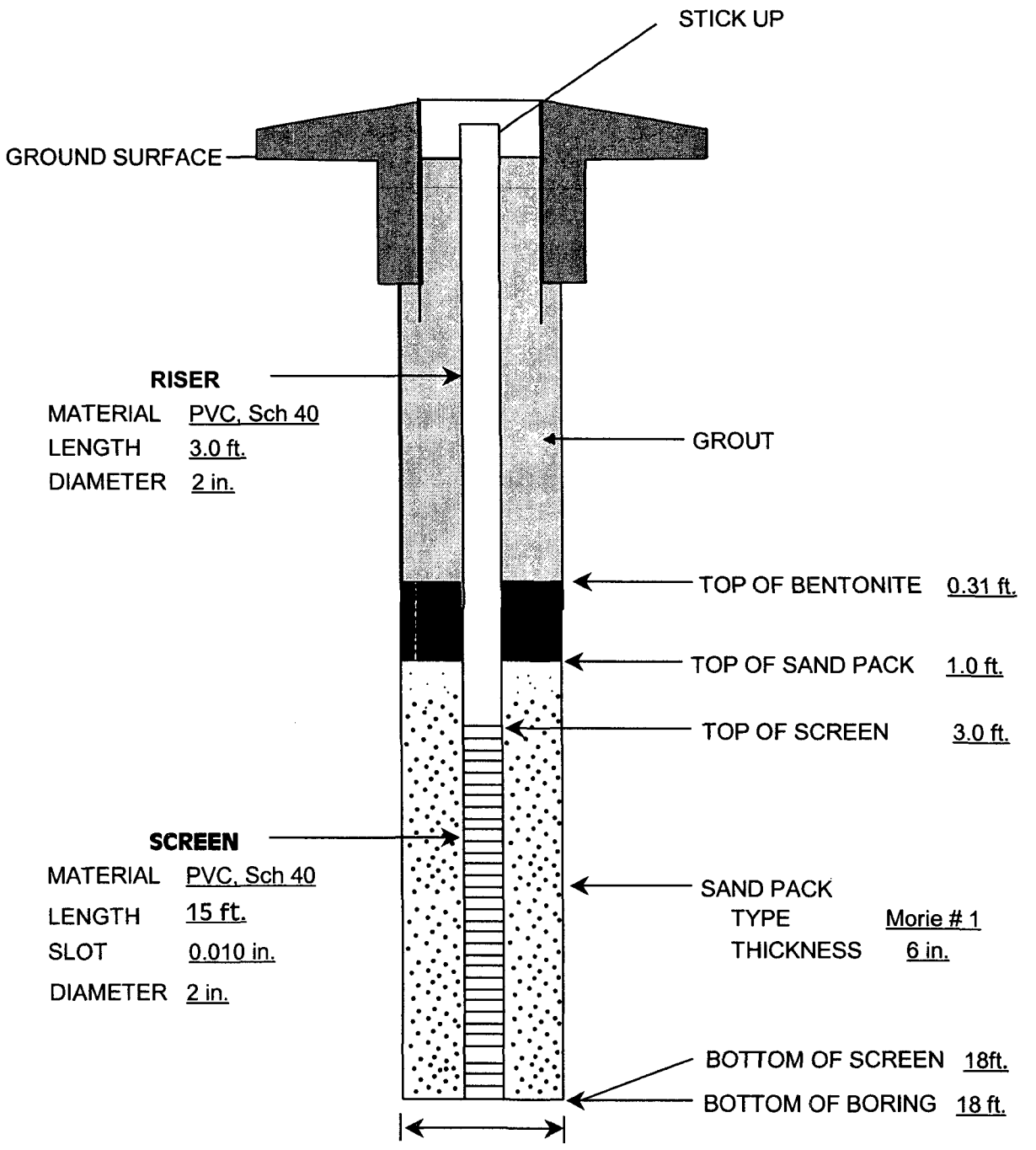
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/07/04 WELL NUMBER: OW-31

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drillng METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



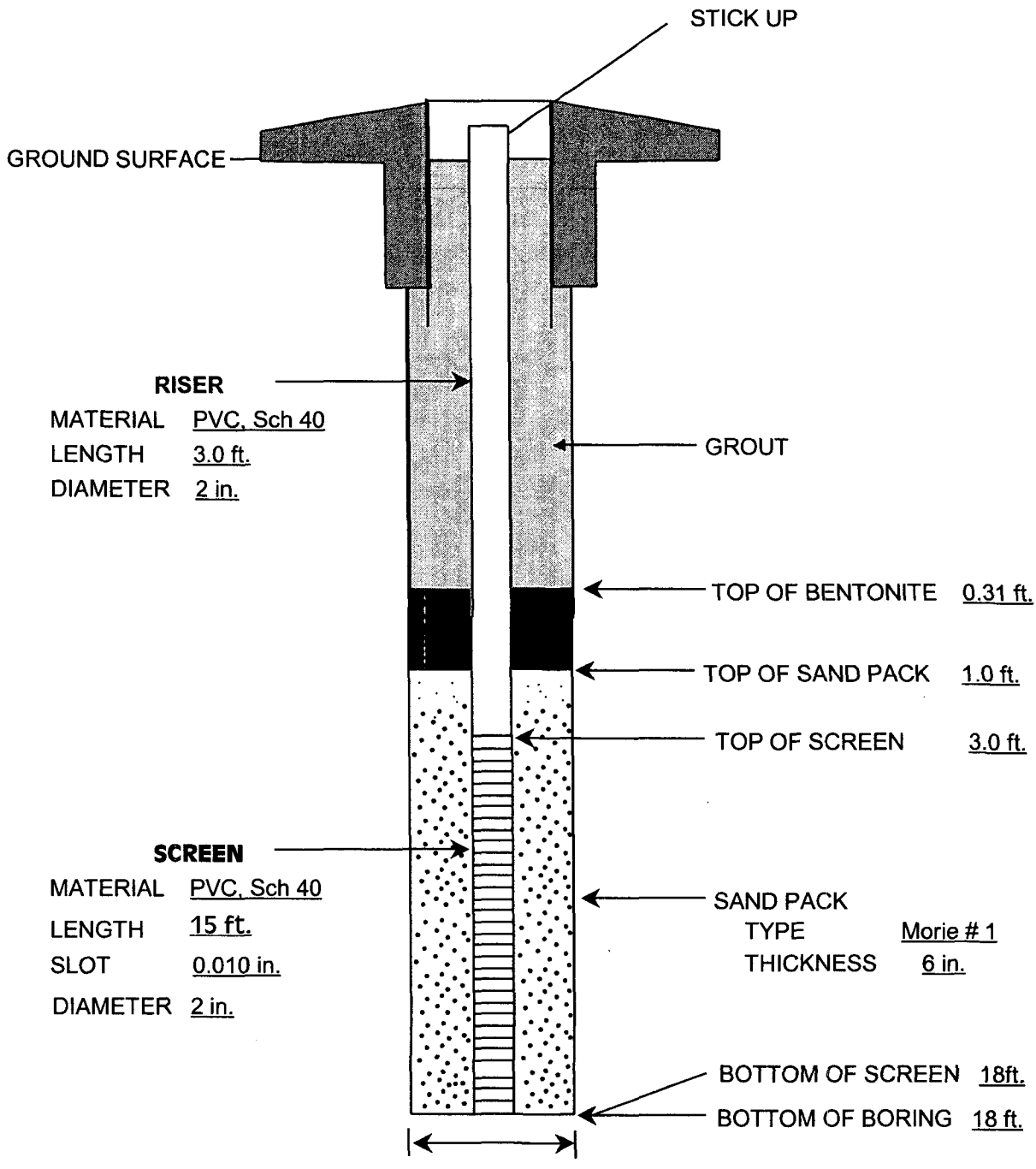
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/06/04 WELL NUMBER: OW-32

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



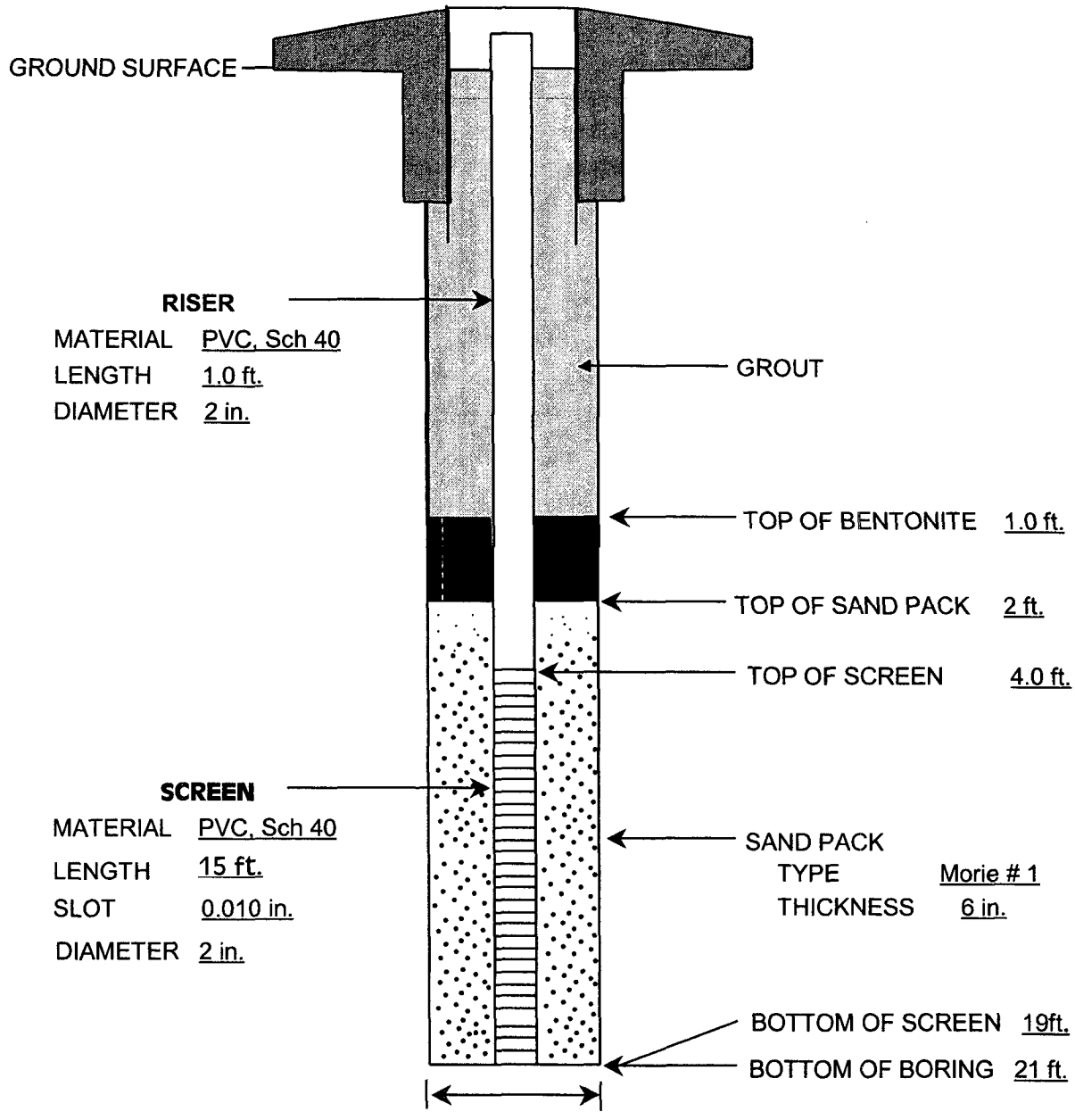
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/30/04 WELL NUMBER: OW-33

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



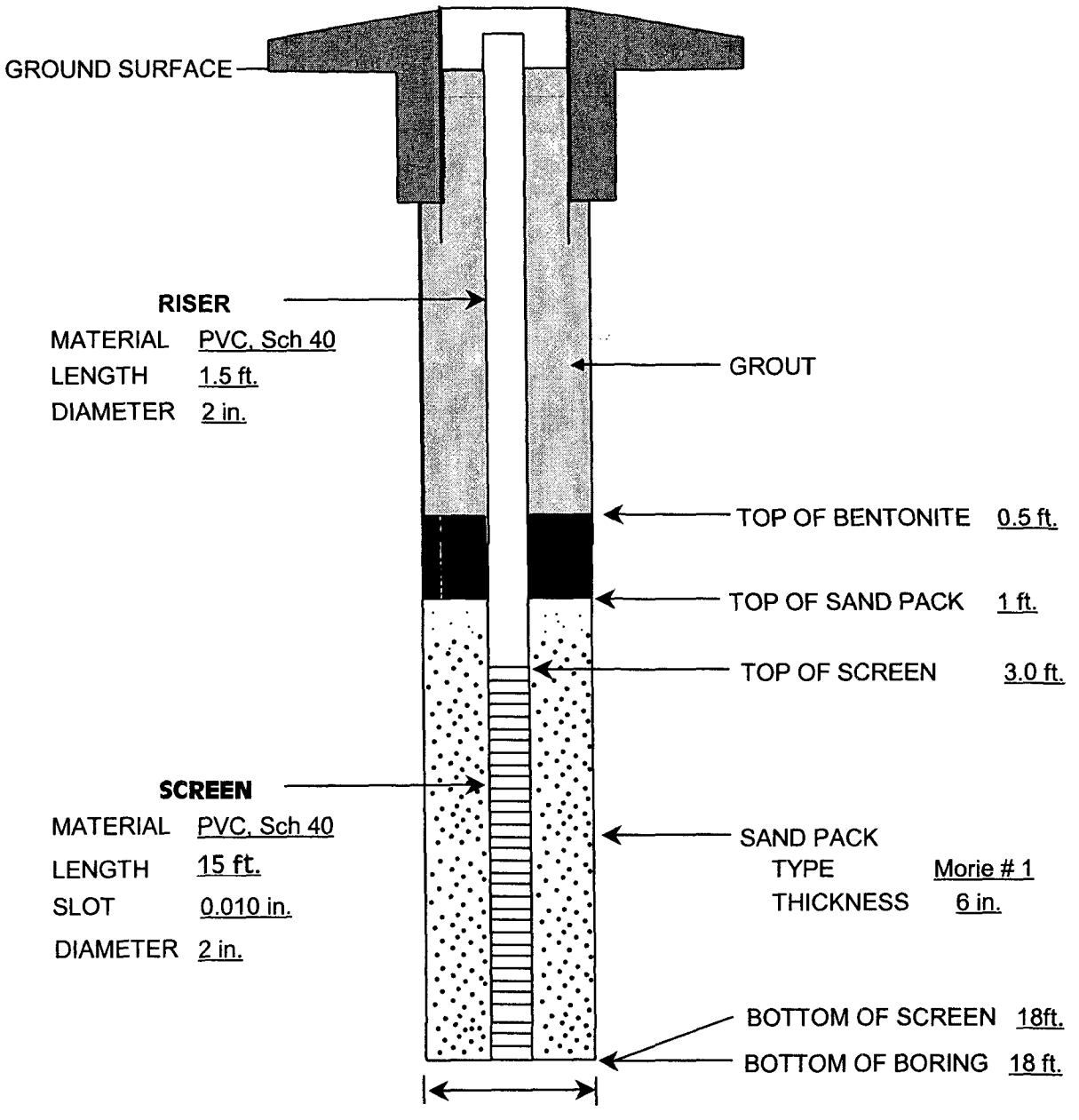
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/03/04 WELL NUMBER: OW-34

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



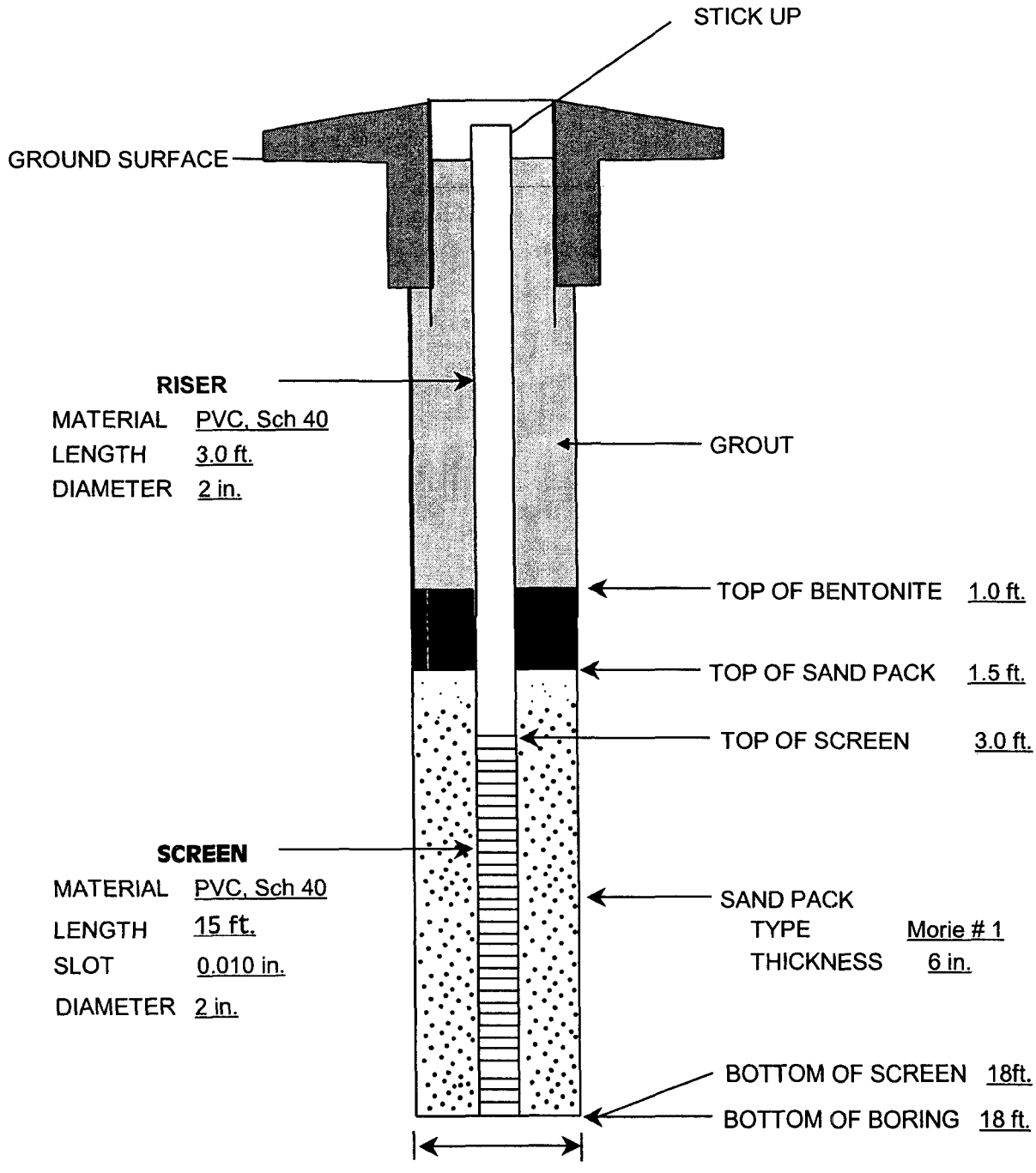
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/26/04 WELL NUMBER: OW-36

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drillng METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



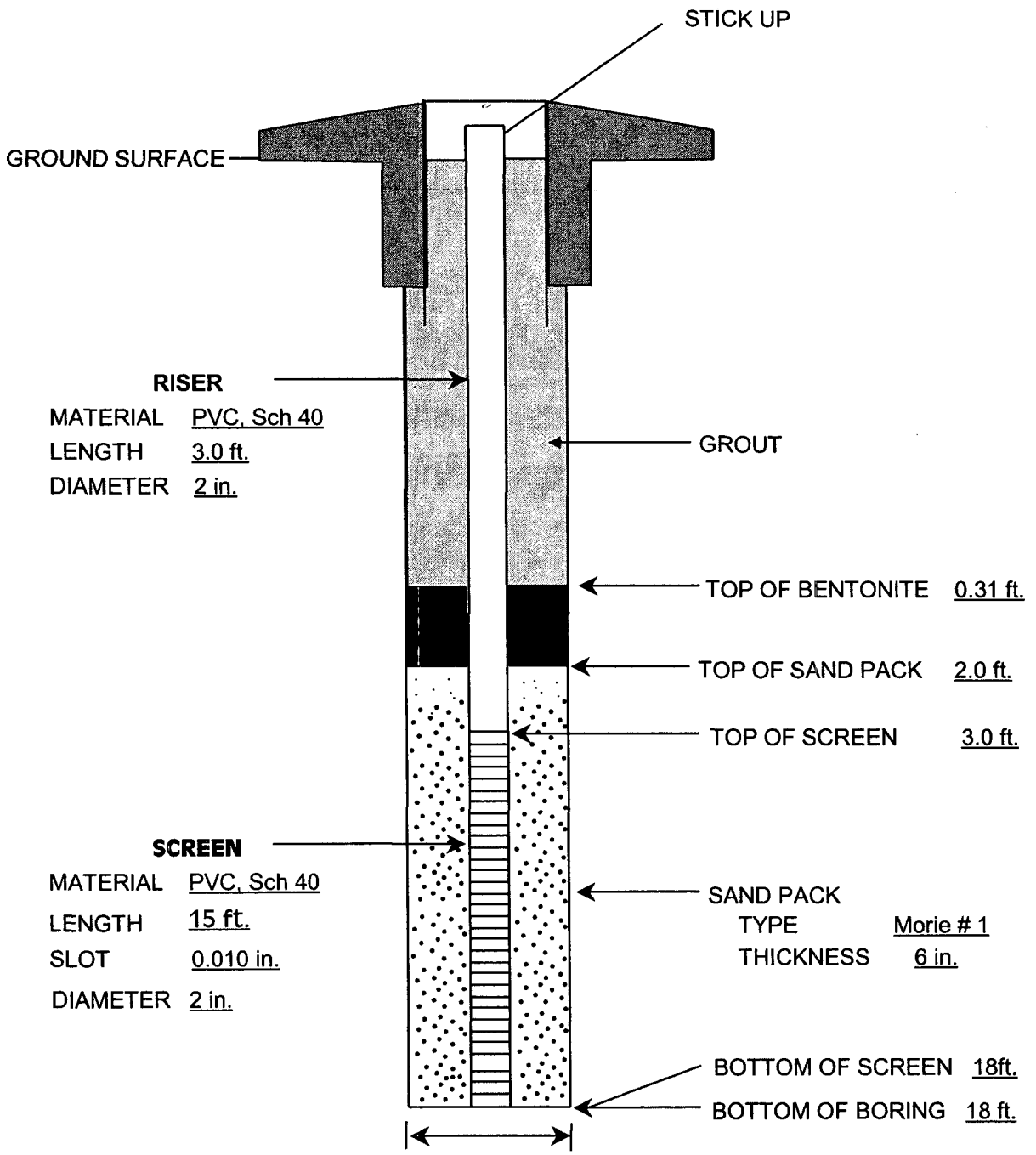
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/26/04 WELL NUMBER: OW-37

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



BORING DIAMETER 8 in.

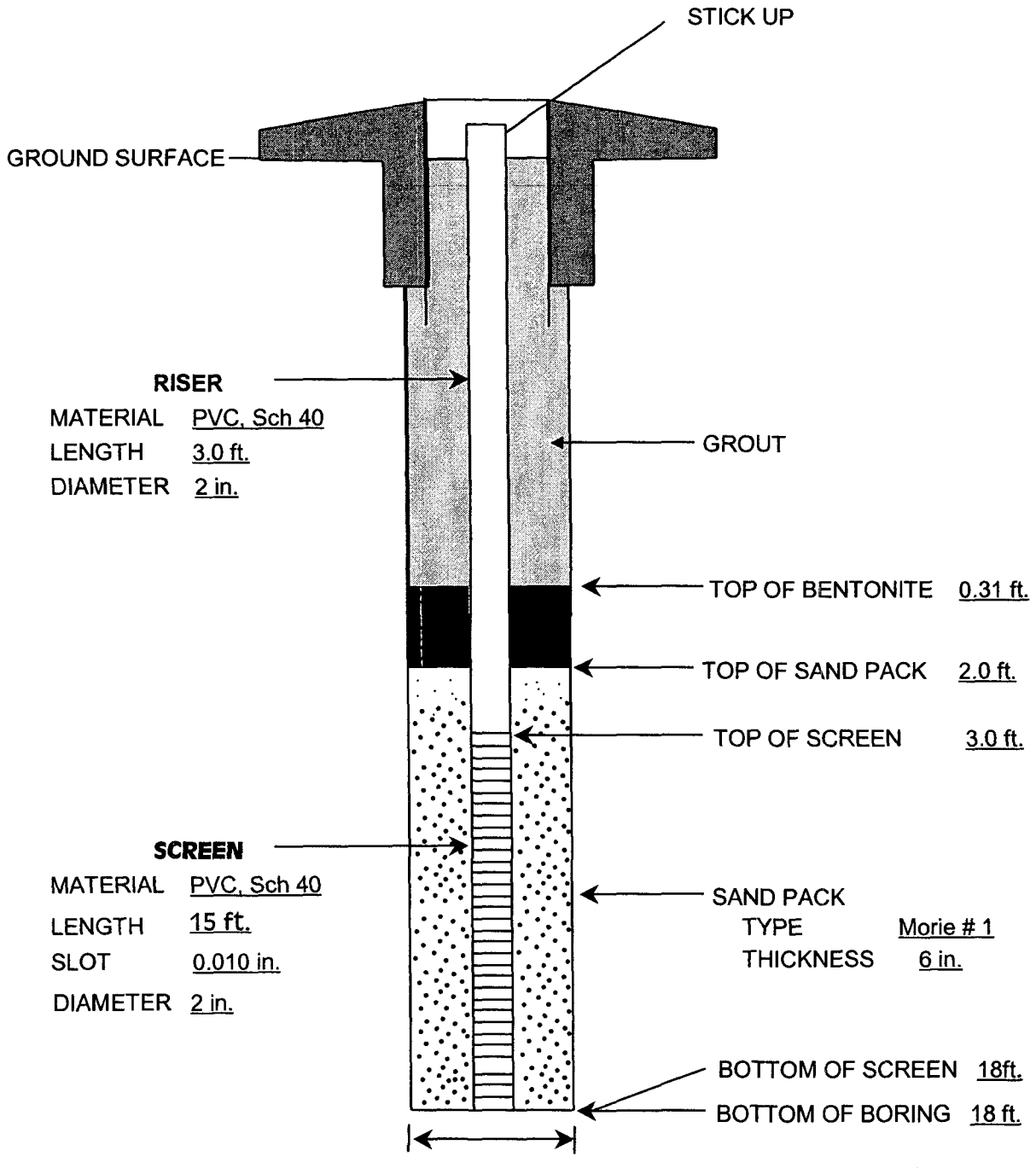
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/27/04 WELL NUMBER: OW-38

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



BORING DIAMETER 8 in.

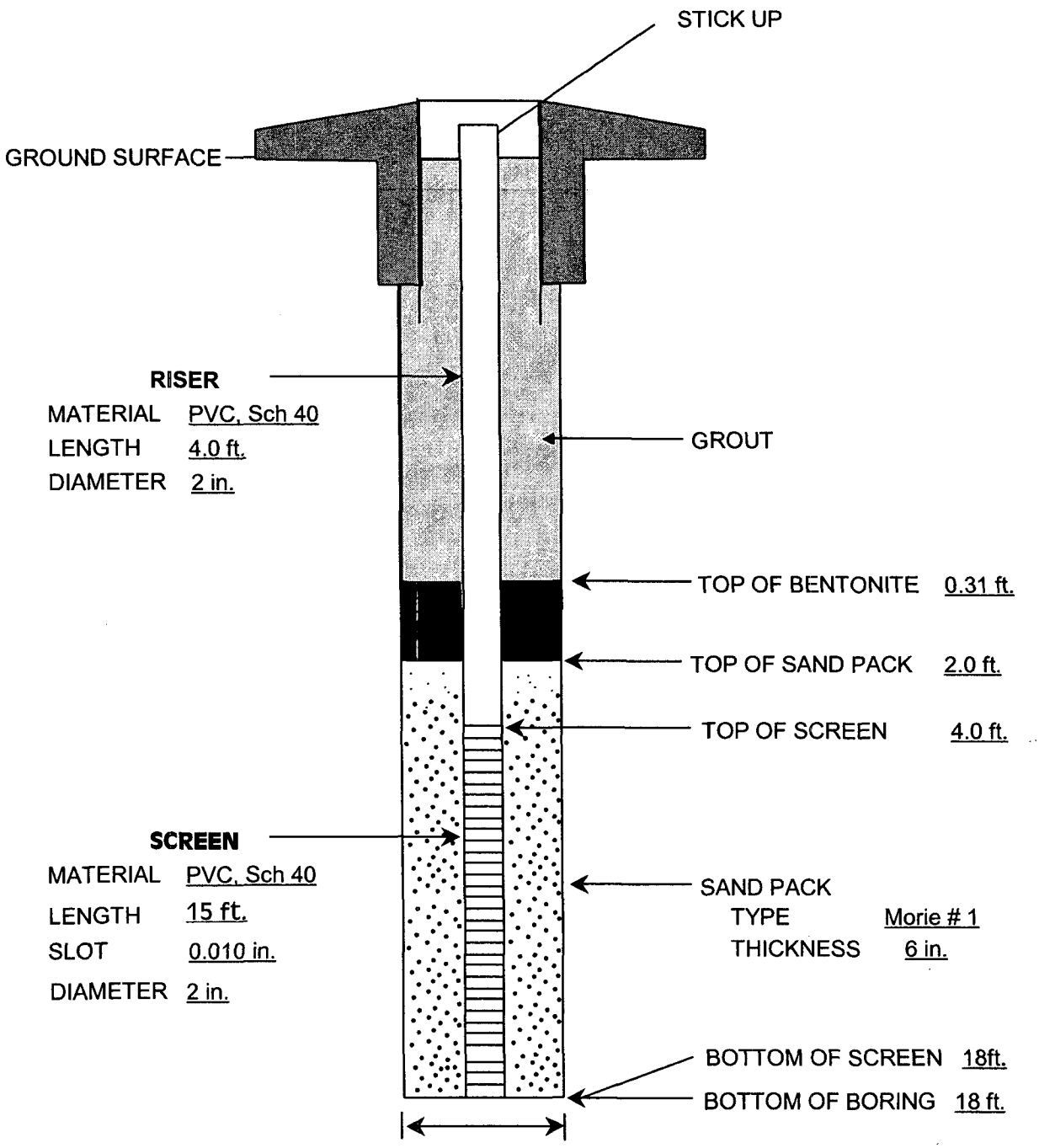
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/27/04 WELL NUMBER: OW-39

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



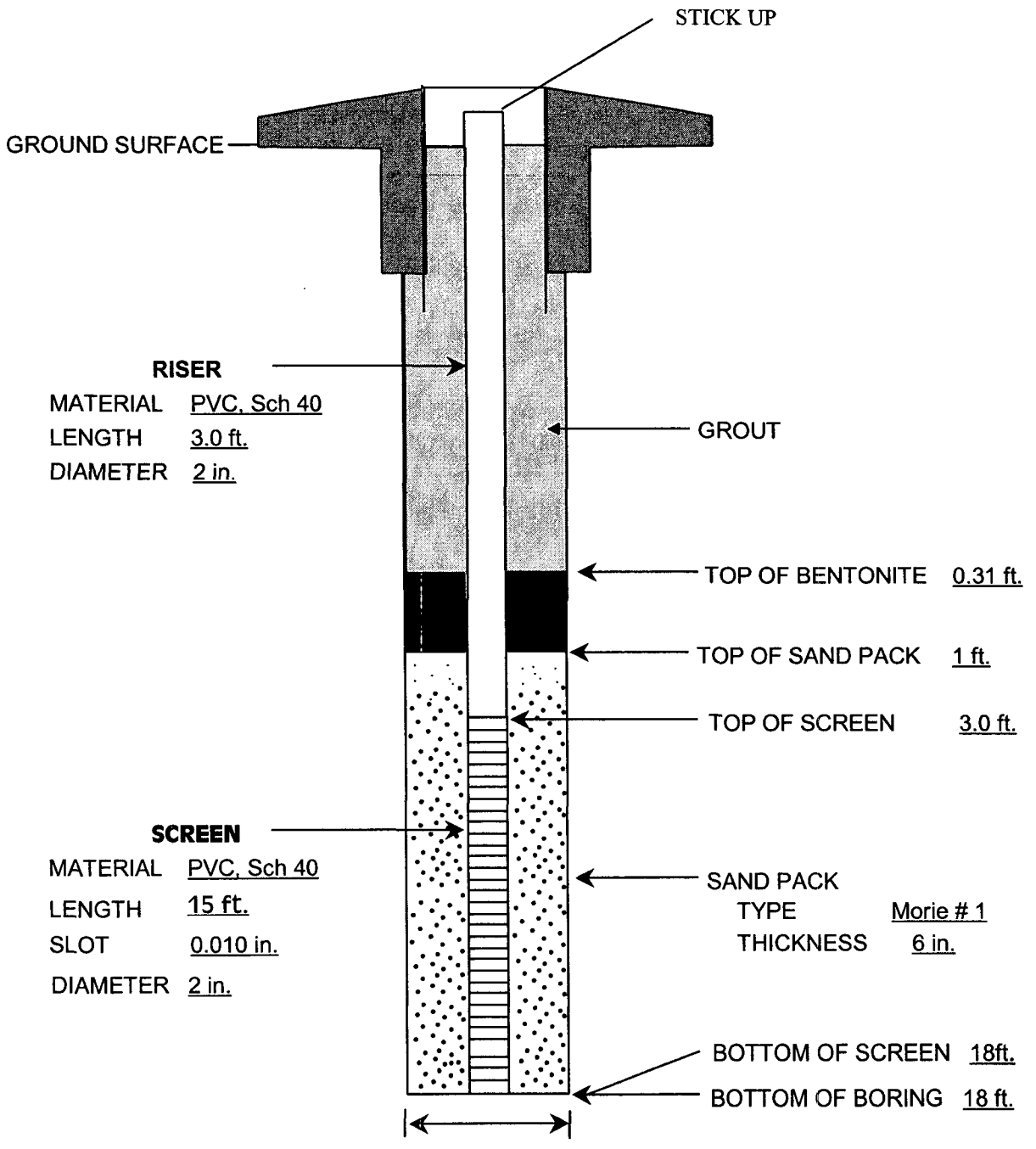
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/28/04 WELL NUMBER: OW-40

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drillng METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



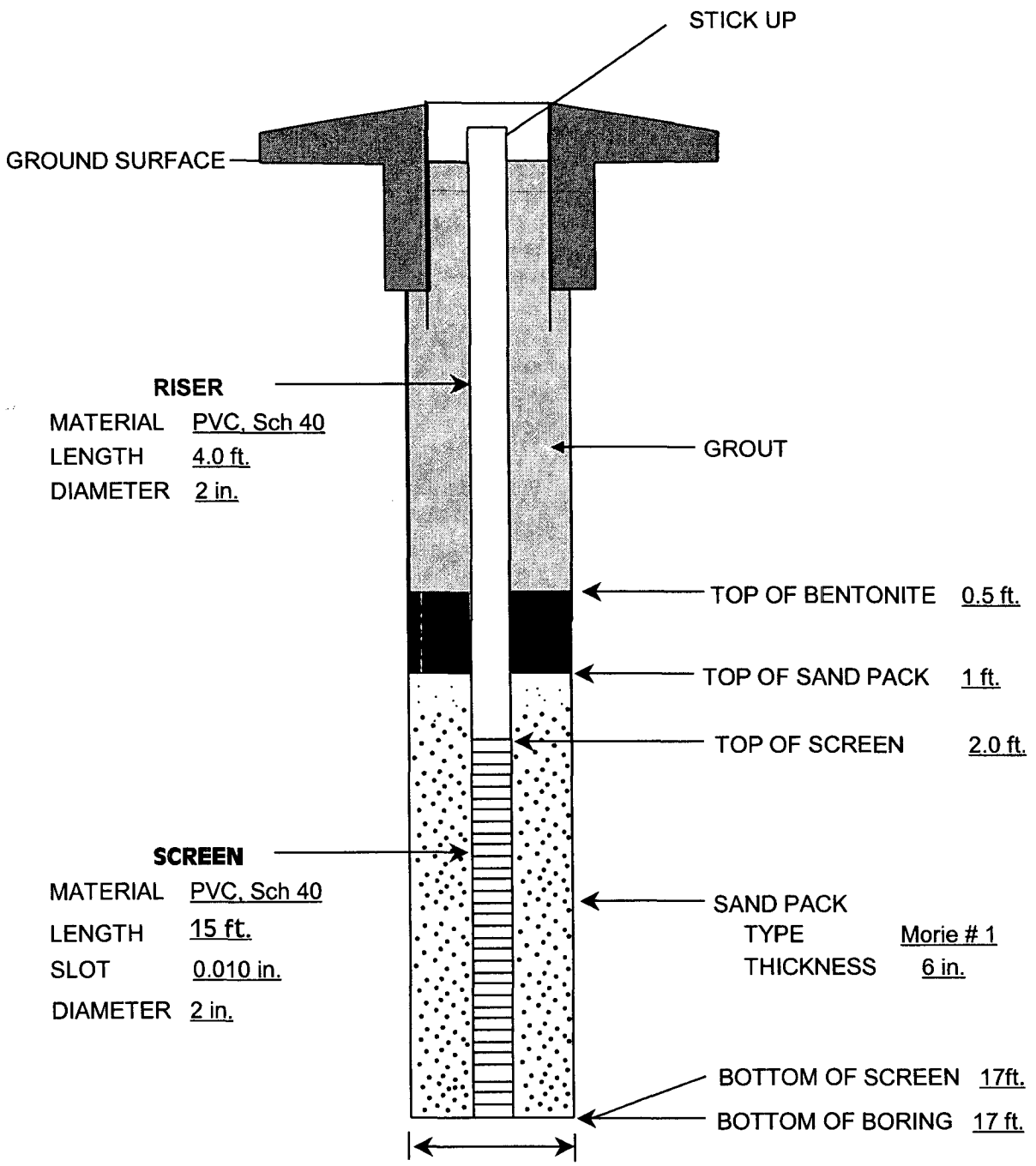
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/29/04 WELL NUMBER: OW-41

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



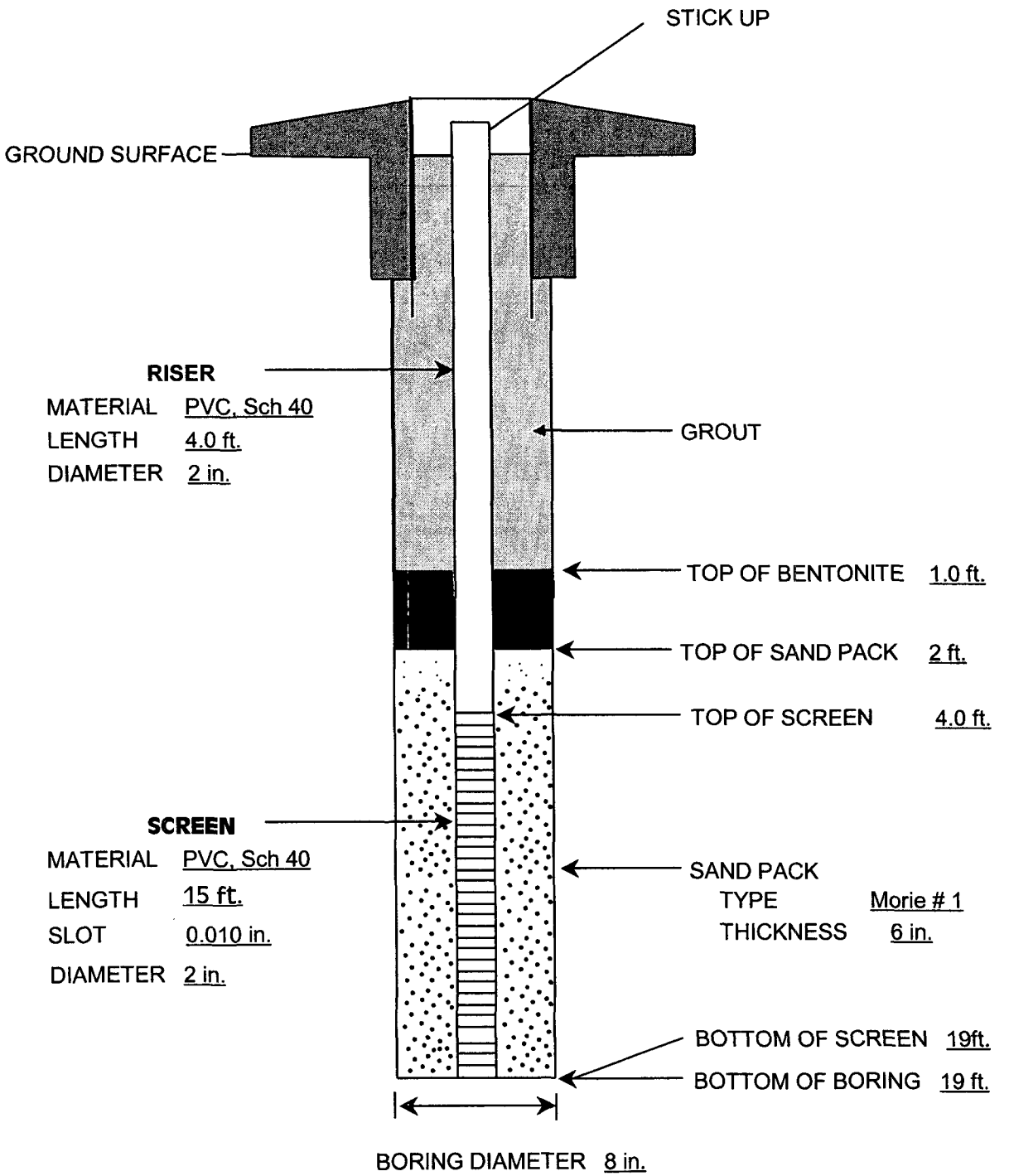
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/29/04 WELL NUMBER: OW-42

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drillng METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



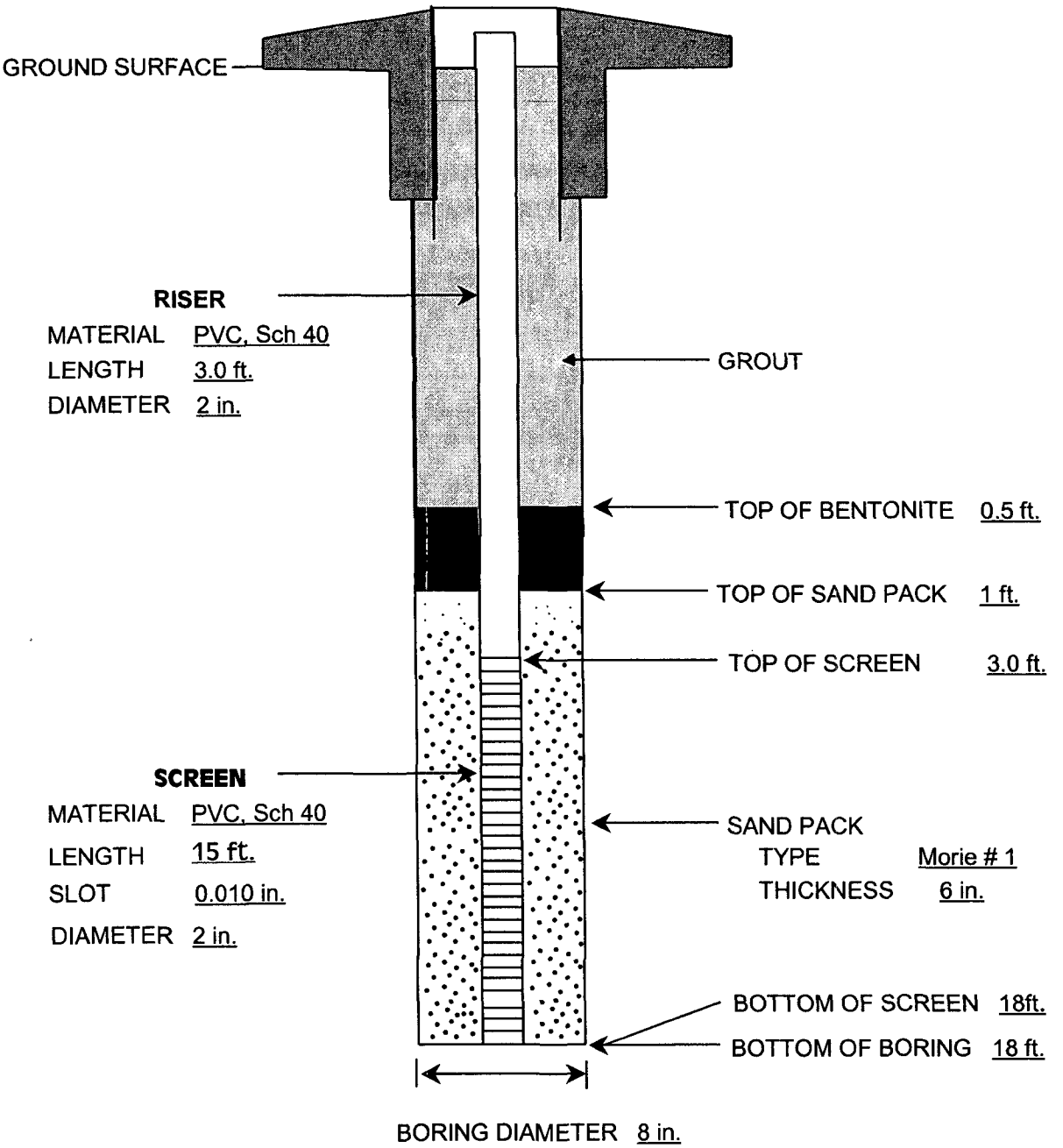
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 04/29/04 WELL NUMBER: OW-43

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drillng METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



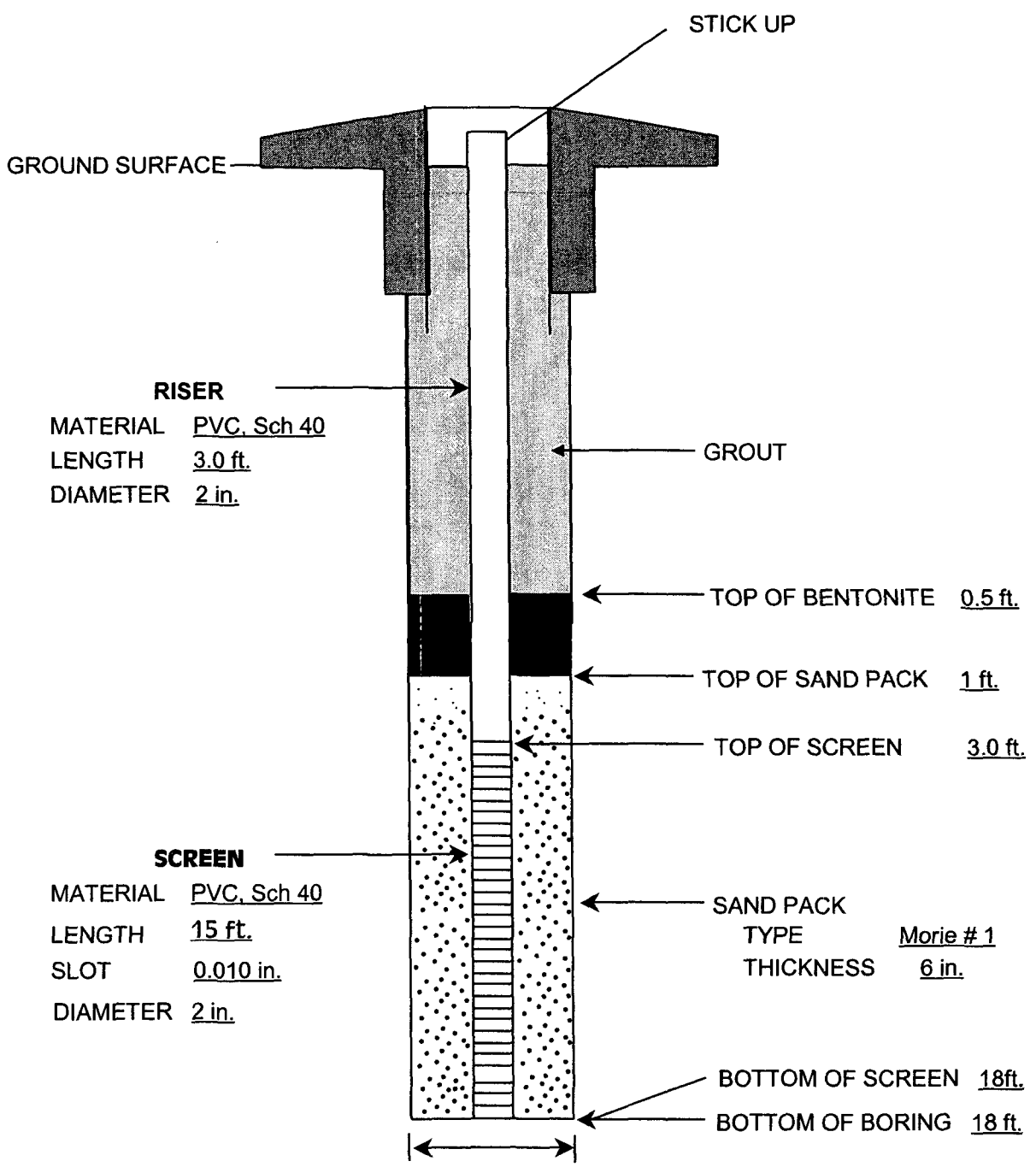
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/04/04 WELL NUMBER: OW-44

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



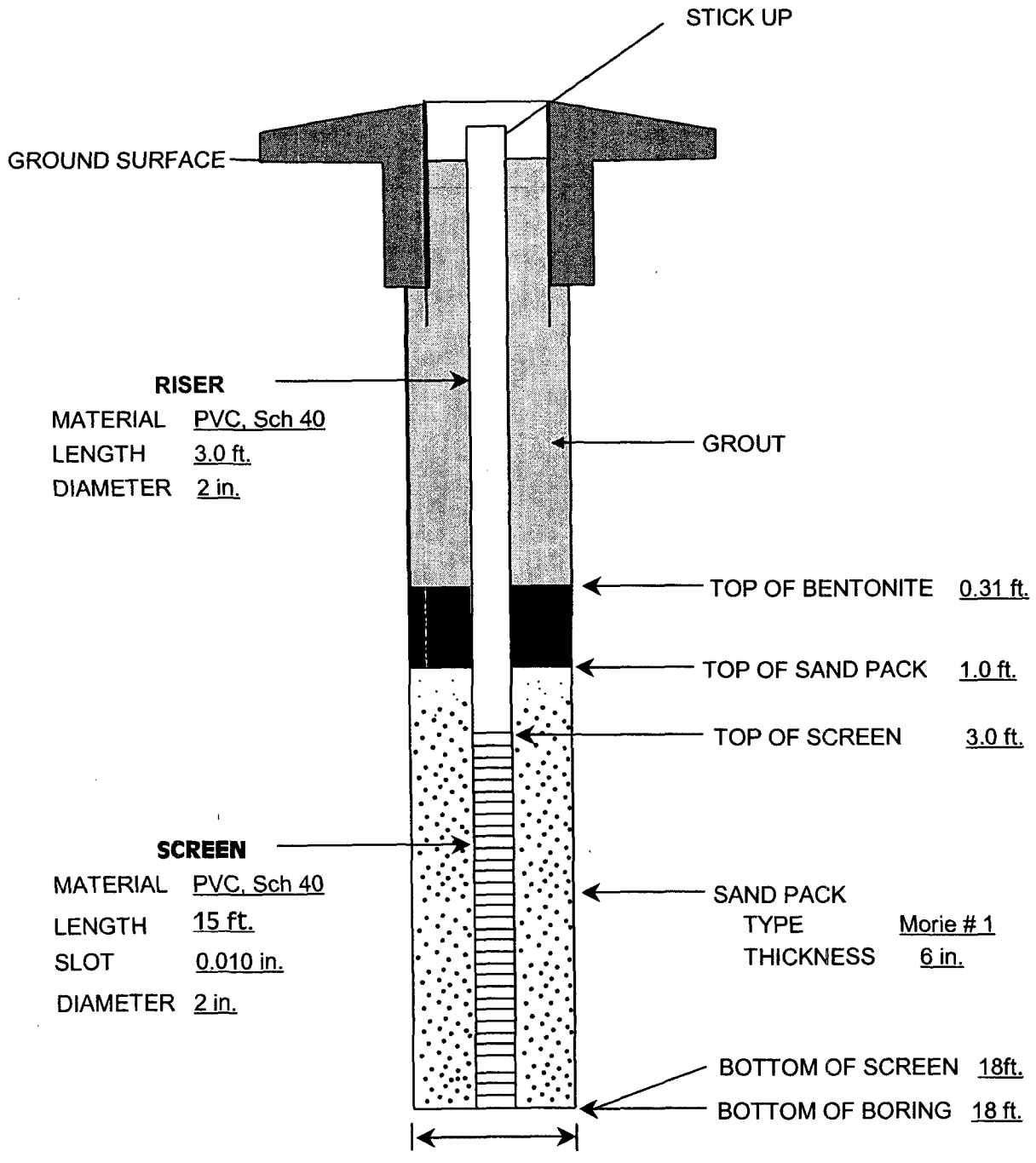
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/07/04 WELL NUMBER: OW-47

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



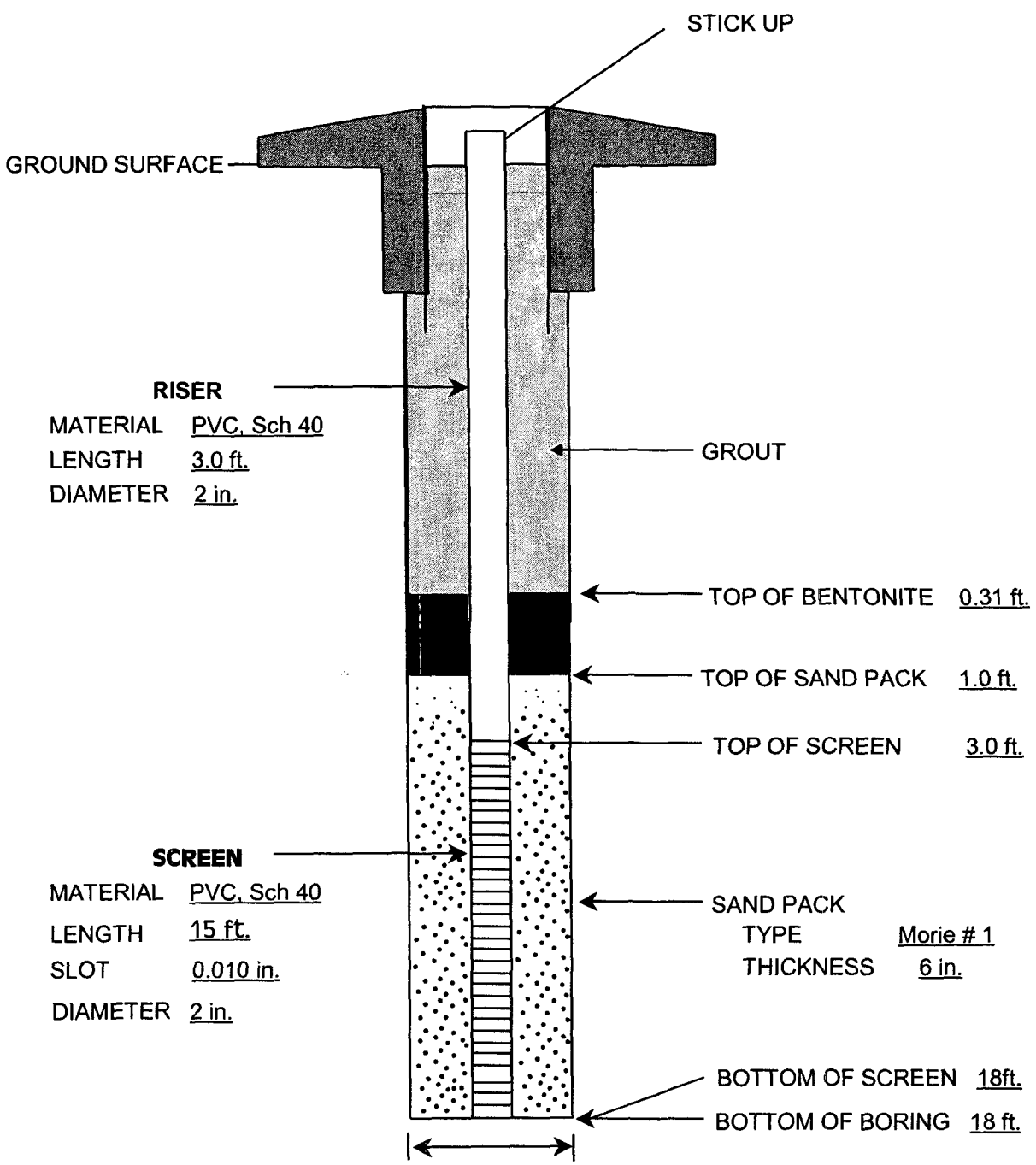
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/10/04 WELL NUMBER: OW-49

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



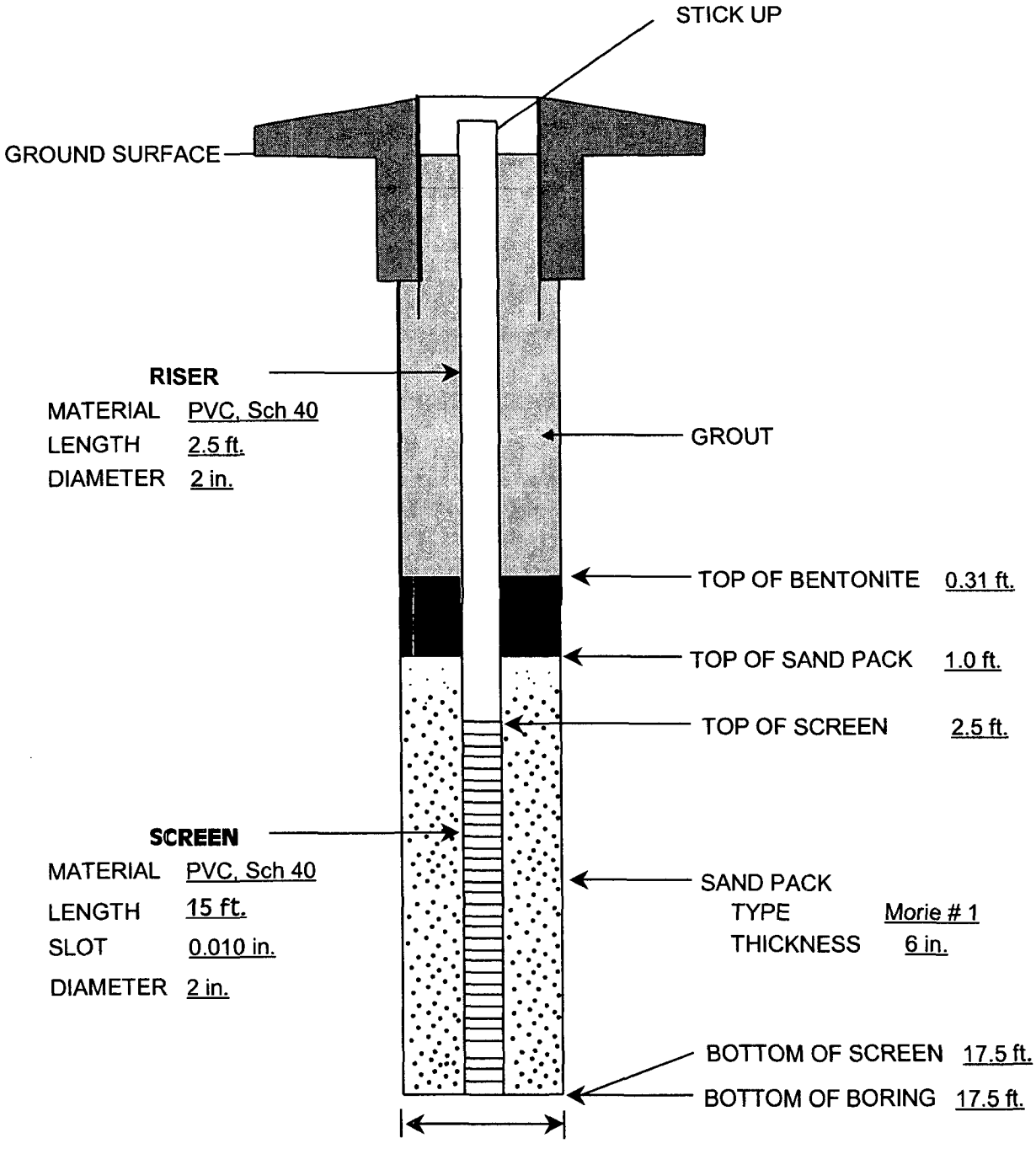
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/11/04 WELL NUMBER: OW-50

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



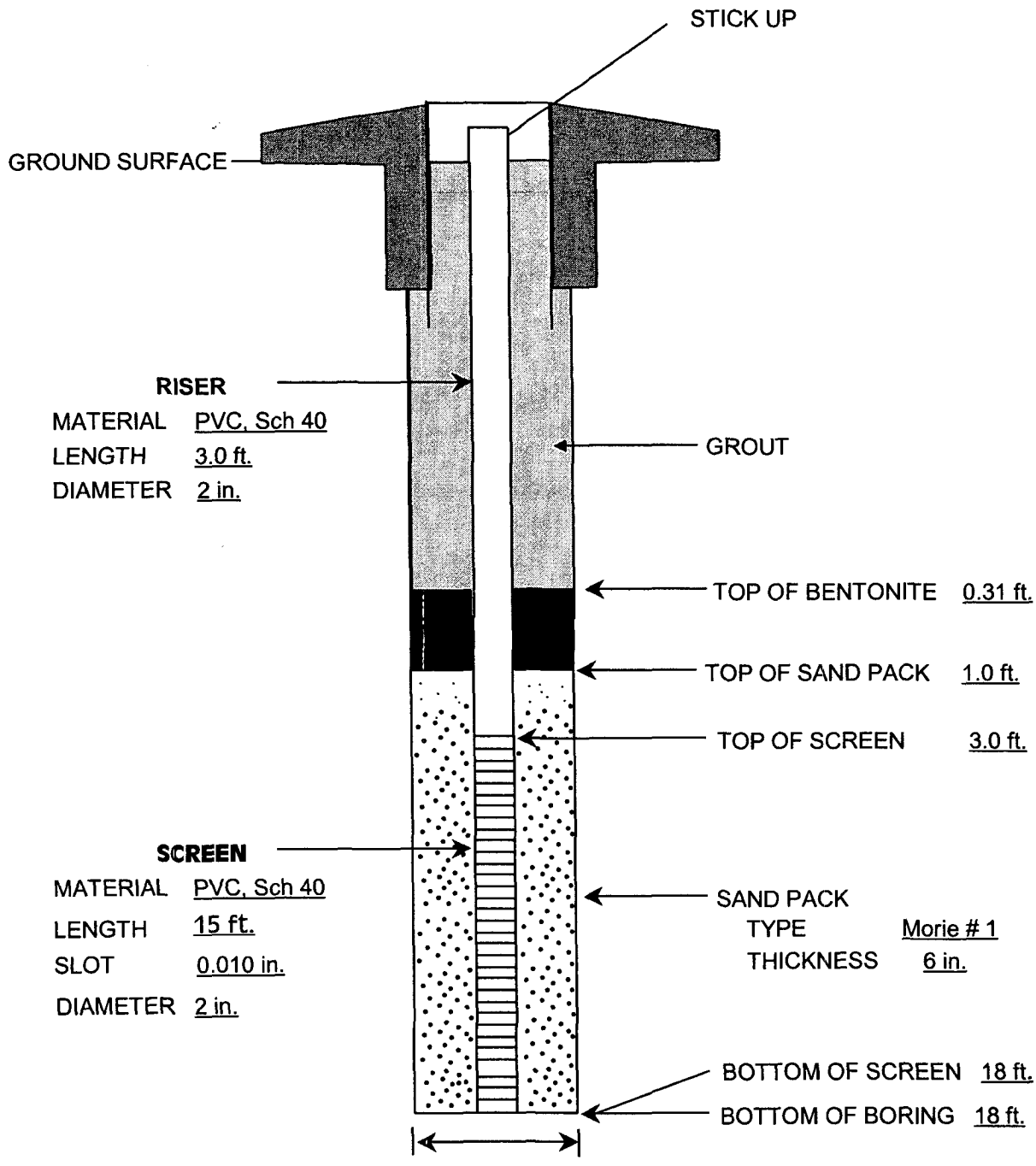
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/11/04 WELL NUMBER: OW-51

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



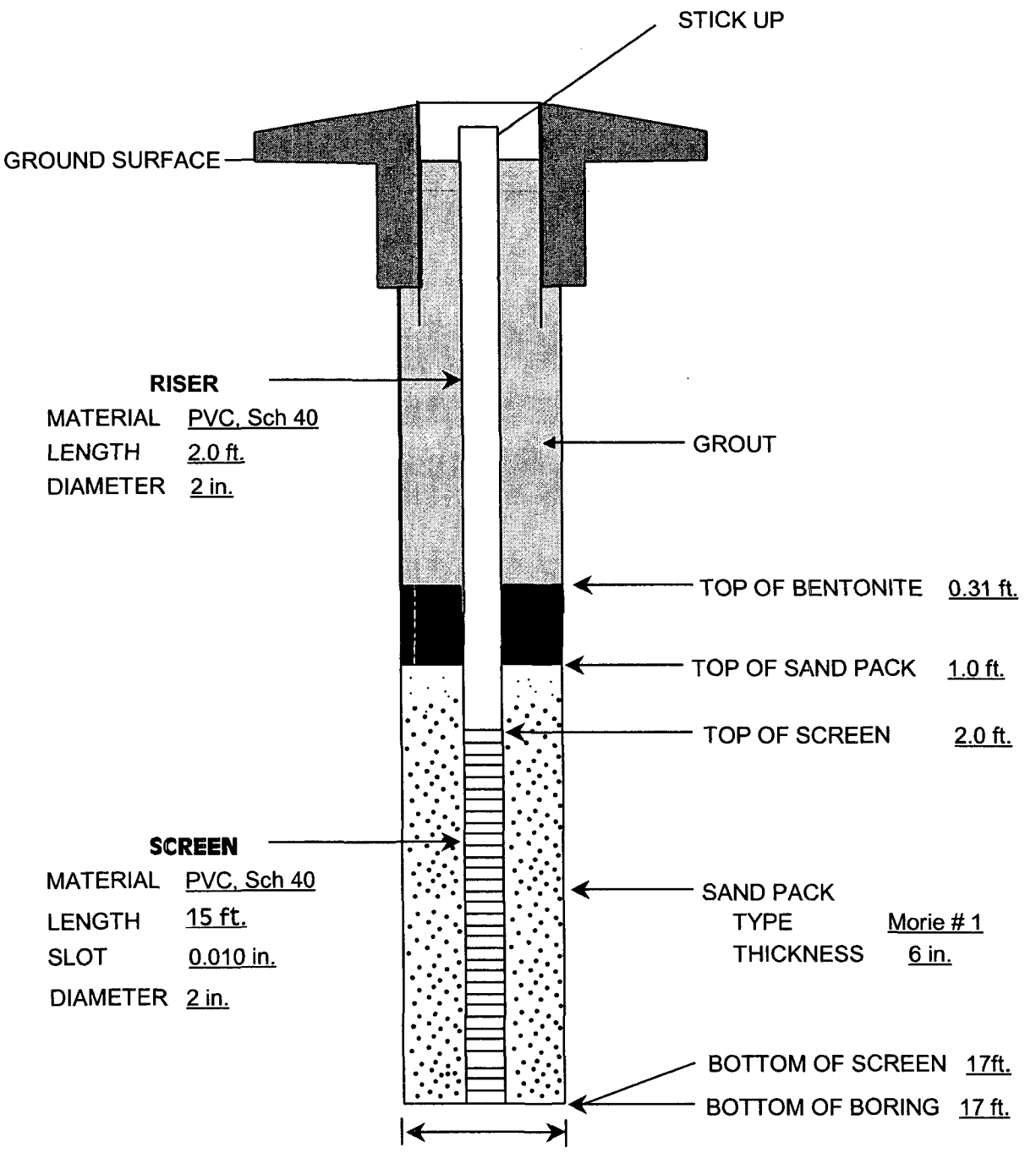
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/05/04 WELL NUMBER: OW-45

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



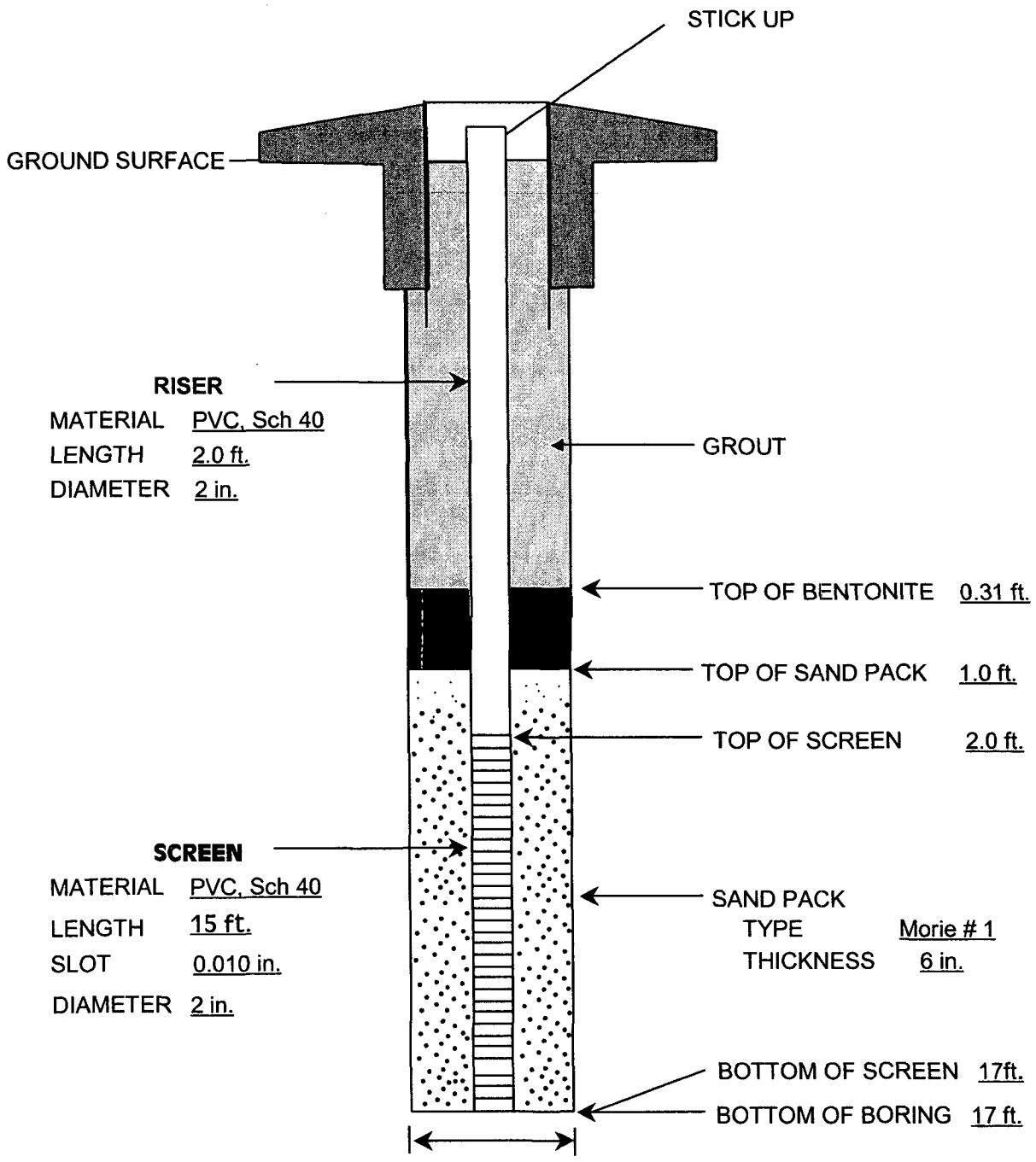
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/05/04 WELL NUMBER: OW-46

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



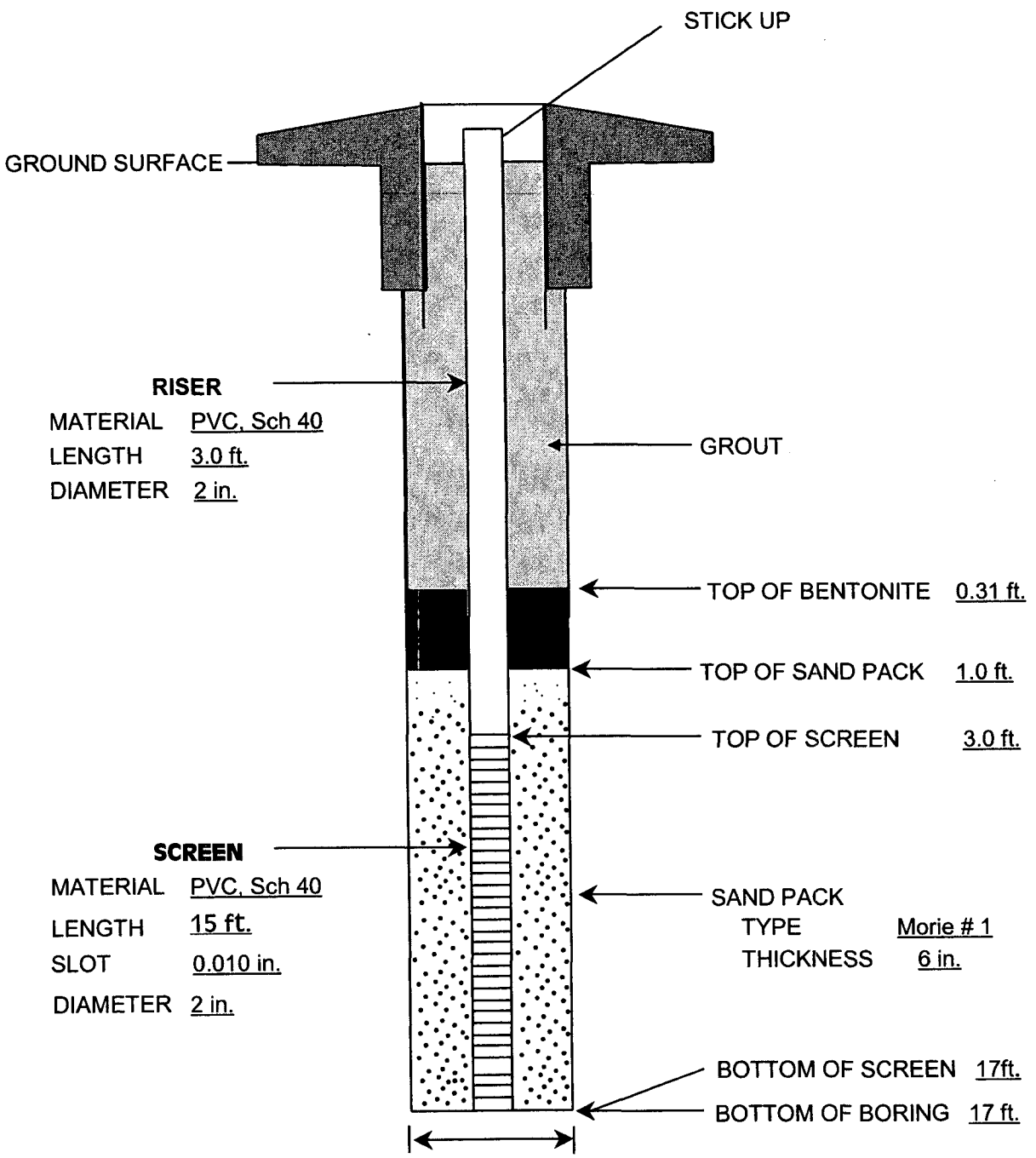
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

WELL CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 05/05/04 WELL NUMBER: OW-48

PROJECT NUMBER: 276360000 DRILLING COMPANY: Summit Drilling METHOD: H. S. Auger

REMARKS: Hollow Stem Rig - Monitor Well INSPECTOR: C. Schrader



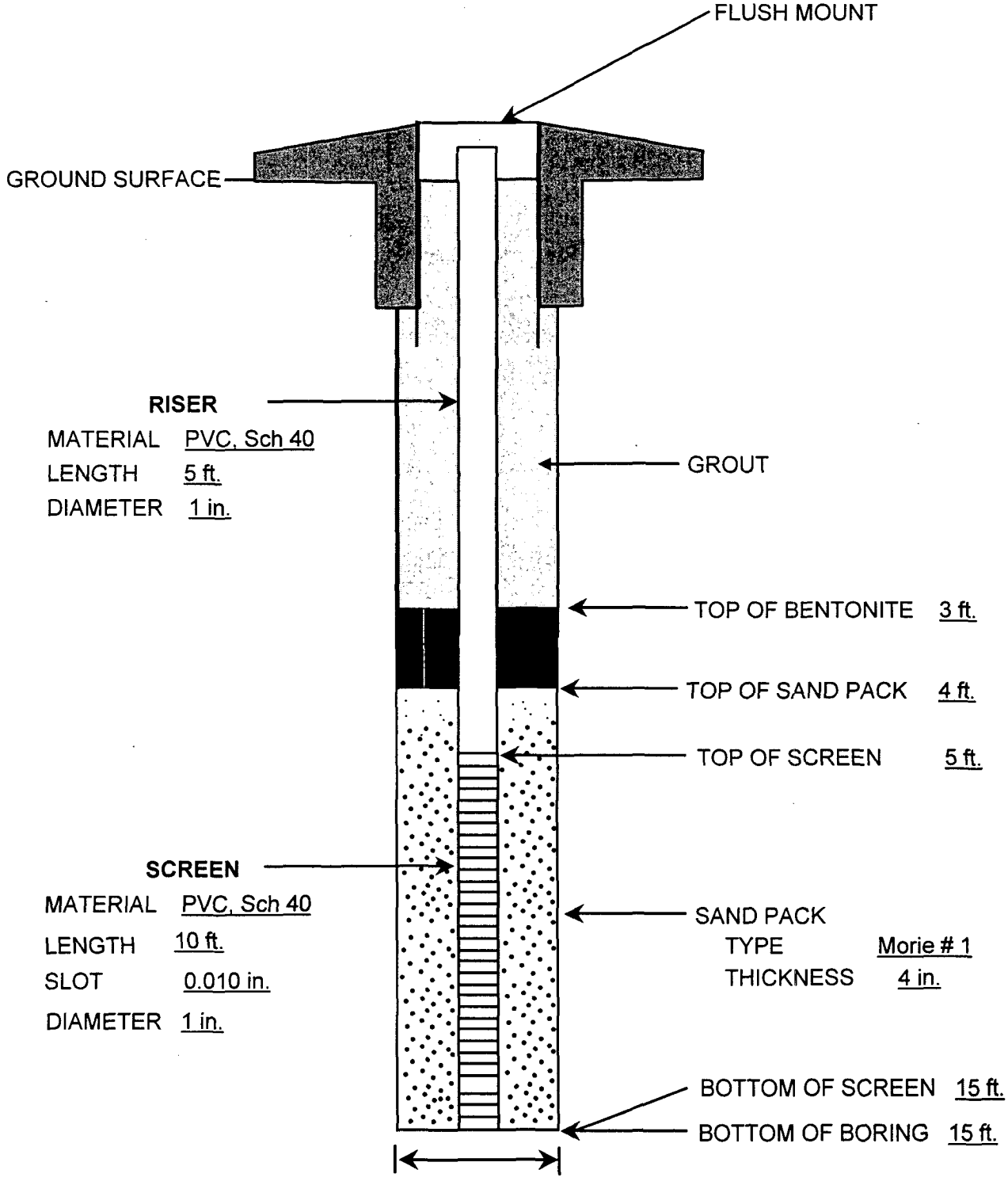
NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

PIEZOMETER CONSTRUCTION DIAGRAM

PROJECT NAME: GM, Sleepy Hollow, NY DATE INSTALLED: 5/18/04 PIEZOMETER #: PZ-35

PROJECT NUMBER: 276360000 DRILLING COMPANY: B&B, Inc. METHOD: Geoprobe

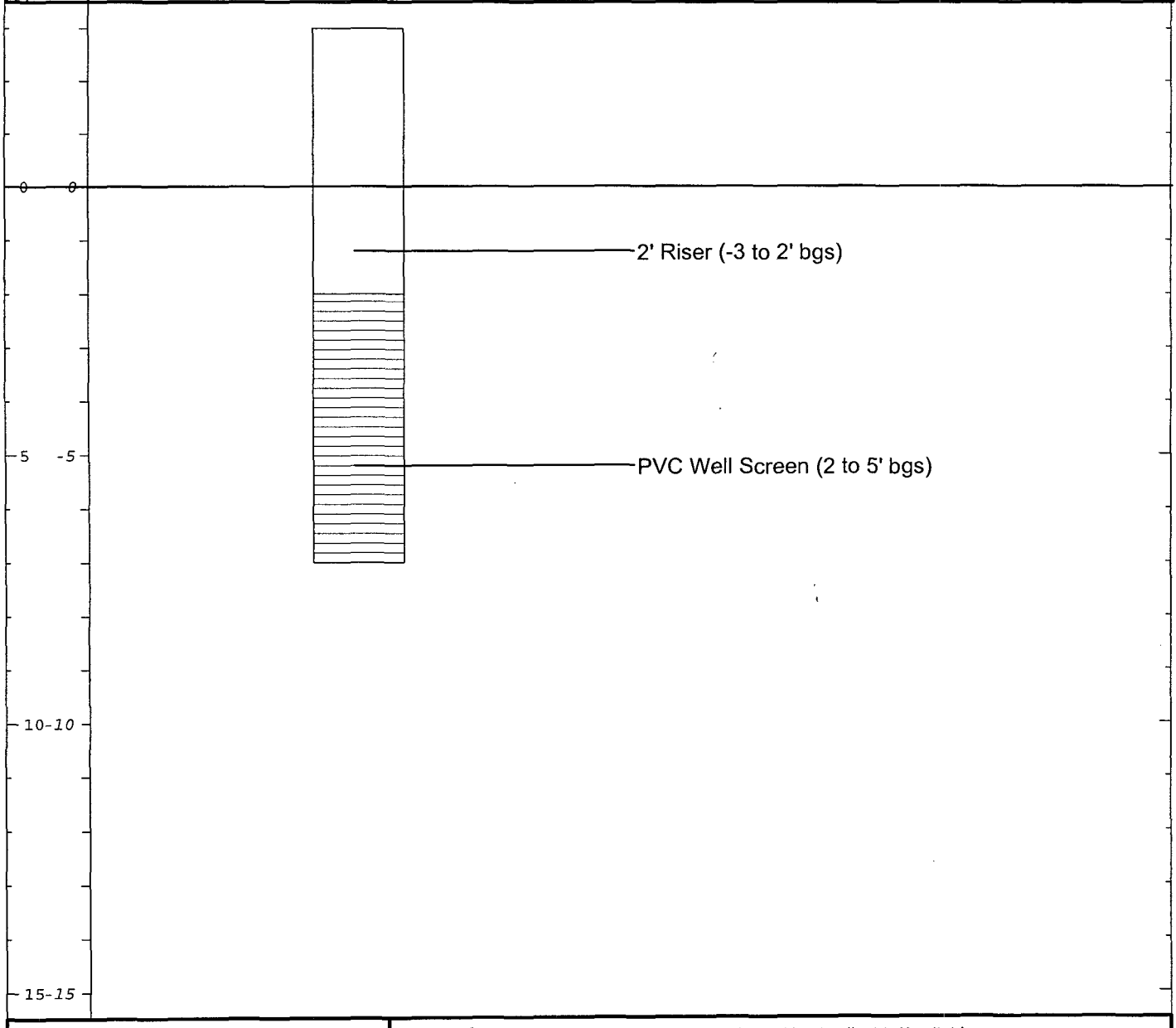
REMARKS: Geoprobe 5' double-tube sampler INSPECTOR: D. Mackie



Date Start/Finish: **Drilling Company:** B&B **Driller's Name:** JoAnn Robertson ***Drilling Method:*** *Hollow Stem Auger* **Bit Size:** Geoprobe **Auger Size:** **Rig Type:** **Sampling Method:**	**Northing:** NA **Easting:** NA **Casing Elevation:** NA **Borehole Depth:** 7' below grade **Surface Elevation:** NA **Geologist:** JoAnn Robertson	**Well ID:** SI-29-B36 **Client:** General Motors **Location:** Former General Motors Assembly Plant Site Sleepy Hollow, NY

DRAFT

Well Construction Details



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

ARCADIS

Appendix F

Monitoring Well Redevelopment Records – Remedial Investigation

well redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-6 Date: 10/21/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: cloudy, breezy

Remarks: _____ Sampler(s): KS

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 8.67 Well Depth (ft): 14.48

Water Column (ft): 4.81 Water Column (gal.) 0.77 Casing Dia. (in): 2

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 2.4

Screen Interval (ft bgs): - Intake (ft bgs): ~13

Purging Method: HB / PP / CP (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 11:00 End Time: 12:48

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	~~DO (mg/l)~~ Depth to Water (ft)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 11:00							If 3 volume method, include Start Time chemistry data only
11:08	begin mechanical surging				8.10	not working	water turbid with some brown fines
11:25					8.11	72.3	black fines in purge water
11:40					8.12	40.5	
11:55					8.14	22.7	
12:10					8.15	62.1	
12:25					8.16	18.6	end mechanical surging
12:35					8.17	4.61	

End Time: 1248 see back of sheet Total Volume Purged (gal.): ~25

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

Well redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-7 Date: 10/21/03.

Project Name: GM Sleepy Hollow AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: cloudy, breezy

Remarks: Sampler(s): K S

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 8.85 Well Depth (ft): 14.89

Water Column (ft): 6.04 Water Column (gal.) 0.97 Casing Dia. (in): 2

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 2.9

Screen Interval (ft bgs): - Intake (ft bgs): ~13.5

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = ~~Centrifugal Pump~~, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 8:15 End Time: 9:40

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	~~DO~~ depth to water (ft) (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 8:15					8.85	slightly turbid	If 3 volume method, include Start Time chemistry data only
8:40					8.89	17.34	mechanically surge well every 5 to 10 min
9:05					9.16	6.82	turn down pump speed
9:25					9.05	1.07	
9:30					9.09	1.19	
9:35					9.11	0.69	

End Time: 9:40 Total Volume Purged (gal.): ~20 gal

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

Well redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-10 Date: 10/20/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: partly cloudy

Remarks: _____ Sampler(s): KS

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 4.81 Well Depth (ft): 14.47

Water Column (ft): 9.66 Water Column (gal.) 1.55 Casing Dia. (in): 2

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 4.65

Screen Interval (ft bgs): - Intake (ft bgs): 13

Purging Method: HB / PP / CP (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 9:10 End Time: 1140

Pump at steady rate with mechanical surging Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	~~DO (mg/l)~~	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time					Depth to Water (ft)		If 3 volume method, include Start Time chemistry data only
9:25					4.85	66.5	depth to water 4.85 ft
9:45					4.90	50.8	mechanically surge every 3-5 min
10:05					4.87	62.3	water contain black fine material
10:25					4.83	21.2	calibration off - clean instrument
10:45					4.83	86.6 53.	RPT 10/20/03 recalibrate & re-read
11:30					4.89	4.82	stop mechanical surge at 11:25
11:35					4.86	3.91	

End Time: 1140 Total Volume Purged (gal.): ~35 to 40 gal

11:40 4.86 2.35 end purging

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

60.7 after calib

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

well redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-11 Date: 10/20/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: few clouds, light breeze

Remarks: Sampler(s): KS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 2.10 Well Depth (ft): 12.11

Water Column (ft): 10.01 Water Column (gal.) 1.6 Casing Dia. (in): 2

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 4.8

Screen Interval (ft bgs): - Intake (ft bgs): ~10.5

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 13:04 End Time: 1458

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	~~DO~~ (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 13:04					depth to water (ft)		If 3 volume method, include Start Time chemistry data only
13:10					2.05	98.8	dark fines in water - surge rev
13:30					2.05	75.5	~~dark fines in mechanical surging every 3 to 5 min~~
13:50					2.05	97.8	
14:10					2.05	73.3	
14:30					2.09	68.0	end mechanical surging
14:45					2.08	6.1	water almost clear
14:50					2.08	4.7	

5 to 10 min

End Time: 1458 Total Volume Purged (gal.): ~40

see back of sheet

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

well redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-12 Date: 10/15/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: cloudy, windy

Remarks: Sampler(s): KS

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 4.94 Well Depth (ft): 14.50 Casing Dia. (in): 2

Water Column (ft): 9.56 Water Column (gal.) 1.55

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 4.65

Purging Method: HB / PP / CP / (SP)

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pumping Rate (gpm): _____

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 11:36 End Time: 1340

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
11:41						60.8	surge every 3 to 5 min
11:50	reconnect tubing to pump						
11:59						33.6	
12:10						81.9	
12:20						44.1	
12:30							turn up pumping rate (.8Hz)
12:40						52.1	

End Time: 13:40 Total Volume Purged (gal.): _____

Purged Dry: Y / (N) see back of sheet If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

well redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-20 Date: 10/16/03 - 10/21/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276 360006

Project Location: Sleepy Hollow NY Weather: partly cloudy

Remarks: Sampler(s): KS

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 3.86 Well Depth (ft): 14.74 Casing Dia. (in): 2

Water Column (ft): 10.88 Water Column (gal.) 1.90

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.7

Purging Method: HB / PP / CP / SP (finish with HB, start with SP) Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 10:22 End Time: 13:40 10/21/03

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
10:22						56.5	surge over 3-5 min
10:36	drawdown water to 10 ft,			turn off	pump, surge mechanically, allow well to recharge		
11:18	restart pumping at	less than	1 gpm	rate, water level continues to drop			
11:21						78.6	mech. surge every 10 min
11:27	water level 10.25 ft						
11:45						28.1	water level 11.4 ft
11:50	shut of pump backwash,		restart	pumping,	< 1 gpm,		

End Time: 13:40 on 10/21/03 Total Volume Purged (gal.): ~15

see back of sheet

Purged Dry: (Y) N to within 0.3 ft If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

well redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-22 Date: 10/15/03 - 10/16/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: cloudy, breezy

Remarks: well redevelopment Sampler(s): KS

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 2.85 Well Depth (ft): 14.92 Casing Dia. (in): 2

Water Column (ft): 12.07 Water Column (gal.) 1.93

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.79

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): < 1 gpm

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 14:23 End Time: 9:16 on 10/16

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
14:25						28.1	purge every 3 to 5 min pump=63 check water level
14:35							set pump at 90ft
14:45						22.6	
14:55						26.5	
15:05	ran out of gas - end work for 10/15/03						
15:10							

End Time: 9:16 on 10/16/03 Total Volume Purged (gal.): 50

Purged Dry: Y / N see back of sheet If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

Well Development

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-24 Date: 10/24/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow, NY Weather: clear

Remarks: _____ Sampler(s): KS

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.69 top of casing Well Depth (ft): 20.29 top of casing (uncut)

Water Column (ft): 7.6 Water Column (gal.) 1.24 Casing Dia. (in): 2

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 3.7

Screen Interval (ft bgs): _____ Intake (ft bgs): _____

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 12:58 End Time: 1416

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	~~DO~~ (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time					Depth to Water (ft)		If 3 volume method, include Start Time chemistry data only
13:15					15.86	183.1	decrease pumping rate
13:30					13.96	129.4	increase pumping rate
13:45					15.38	188.1	end mechanical pump
13:55					15.34	28.8	
14:05					15.36	4.09	
14:10					15.39	3.43	
14:15					15.39	2.25	

End Time: 14:16 Total Volume Purged (gal.): 40 to 45 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

Well Redevelopment

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-25 Date: 10/24/03

Project Name: GM Sleepy Hollow AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: clear, windy, cold

Remarks: _____ Sampler(s): KS

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.84 top of uncut casing Well Depth (ft): 19.24 top of uncut casing

Water Column (ft): 6.40 Water Column (gal.) 1.02 Casing Dia. (in): 2

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 3.06

Screen Interval (ft bgs): - Intake (ft bgs): _____

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 9:15 End Time: 11:20

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	~~DO (mg/l)~~	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time					Depth to Water		If 3 volume method, include Start Time chemistry data only
9:30					14.08	turbid	mechanically surge every 5-10 min
9:45					14.14	turbid	
10:00					14.01	190.2	
10:15					13.80	138.1	
10:30					13.59	155.6	
10:40					13.59	188.7	
11:10					13.54	14.84	stop mechanical surging

End Time: 1120 Total Volume Purged (gal.): 45 to 50 gal

Purged Dry: Y / N see back of sheet If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

Well Development

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-26T Date: 10/28/03

Project Name: GM, Sleepy Hollow AMEC Project No.: 276 360000

Project Location: Sleepy Hollow, NY Weather: Cloudy

Remarks: _____ Sampler(s): VG

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.2 Well Depth (ft): ~12 Casing Dia. (in): 2

Water Column (ft): 9.8 Water Column (gal.) 1.6

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): ~~4.8~~ 4.8

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1520 End Time: 1628

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1522	17.46	8.41	0.182	31	10.55	999	If 3 volume method, include Start Time chemistry data only
1532	16.72	7.84	0.302	-157	5.04	999	
1542	16.51	7.58	0.327	-170	3.83	999	
1608	16.63	7.78	0.396	-167	9.14	214	
1618	16.67	7.37	0.407	-188	3.48	75.6	
1623	16.67	7.35	0.424	-188	3.23	35.0	
1628	16.70	7.34	0.430	-188	3.07	39.8	

End Time: 1628 Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): _____ Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

ARCADIS

Appendix G

Monitoring Well Purging/Sampling Logs – Remedial Investigation

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: ~~ES~~(OW-37) SI-37-B20 Date: 05/10/2004 / 05/11/04

Project Name: GM AMEC Project No.: 276360000

Project Location: SLEEPY HOLLOW, NY Weather: SUNNY

Remarks: _____ Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 5.06' 4.94' Well Depth (ft): 17.1' 17.04' Casing Dia. (in):

Water Column (ft): ~~11.94~~ 12.04' Water Column (gal.) 1.9649

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): _____

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, (SP) = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 0735 End Time: _____

Actual Volume Purged (gal.): _____

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time ~~0815~~ 0735							If 3 volume method, include Start Time chemistry data only
0810						550	MUDDY, PUMP AT 67HZ
0820						270	MUDDY, PUMP AT 67HZ
0830						160	MURKY, PUMP AT 67HZ
0840						220	CLOUDY, PUMP AT 67HZ
0850						100	PUMP AT 72HZ, CLOUDY
0900						35	CLEAR, PUMP AT 72HZ
0910						40	CLEAR, PUMP AT 72HZ

End Time: _____ Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): _____ Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-BIW-1 Date: 5/3/4

Project Name: GM AMEC Project No.: 276 360000

Project Location: Sleepy Hollow NY Weather: raining

Remarks: Sampler(s): K. Saunders

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 7.68 Well Depth (ft): 17.31

Water Column (ft): 9.63 Water Column (gal.) 0.39 Casing Dia. (in): 1"

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 1.2

Screen Interval (ft bgs): - Intake (ft bgs):

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): ~0.04

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1305 End Time: 1340

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1305		12.1 HACH					If 3 volume method, include Start Time chemistry data only
1310	12.51	7.82	36.3	190	11.22	—	
1320	~~10.92~~	7.56	0.1	206	10.97	—	
1335	11.52	7.57	6.6	228	11.34	880	

End Time: 1340 Total Volume Purged (gal.): ~1.5 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: collected triple volume for MS/MSD Sample Time (Start / End): 1340

Depth to Water (ft): Sampling Method: (Bailer) / In-Line VOCs chromium

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)
	11.52	7.57	6.6	228	11.34	880

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B13W-1 Date: 7/26/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: sunny, warm

Remarks: temporary well Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.40 Well Depth (ft): 18.70 Casing Dia. (in): 1"

Water Column (ft): 6.3 Water Column (gal.) 0.26

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.77

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.06

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
(1 (0.083))	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.5 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 10:39 End Time: 12:05

Actual Volume Purged (gal.): 5.5

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 10:39			mS/m		g/L		If 3 volume method, include Start Time chemistry data only
10:46	21.57	9.50	39.1	115	7.05	—	brown w/ visible particles
10:50	20.00	8.71	40.3	126	3.22	—	pump stopped
11:00	20.95	8.58	40.9	124	3.12	340	
11:24	19.60	8.57	41.2	135	4.05	160	missed readings due to moving equip
11:35	19.26	8.57	41.3	128	2.78	320/26.7	finds likely collected in flow-thru cell
11:45	19.27	8.52	41.1	126	2.51	290/13.0	
11:55	19.22	8.51	41.0	125	2.37	220/7.6	
End Time: 12:05					Total Volume Purged (gal.):		5.5
12:05	19.37	8.51	41.1	125	2.28	230/10.7	

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 12:05

Depth to Water (ft): 12.60 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID no color noted

metals VOCs

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: Chromium unfiltered & filtered (0.45 micron) - in-line
VOCs w/bailer

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B2W-1 Date: 5/4/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: sunny, breezy

Remarks: _____ Sampler(s): K. Saunders

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 9.70 Well Depth (ft): 19.15 Casing Dia. (in): 1

Water Column (ft): 9.45 Water Column (gal.) 0.38

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 1.16

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): ~0.11

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 10:53 End Time: 16:15

Actual Volume Purged (gal.):

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 10:53							If 3 volume method, include Start Time chemistry data only
10:55	14.40	8.11	52.8	274	12.58	—	Turbid
11:00	13.16	7.81	50.6	287	10.12	121	
11:05	13.17	7.68	50.1	295	9.67	159	
11:10	13.17	7.72	49.8	294	9.52	137	

End Time: 11:15 Total Volume Purged (gal.): ~2.5

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 11:15

Depth to Water (ft): 9.69 Sampling Method: Bailer / In-Line VOCs Chromium

If 3 volume method, indicate sample chemistry data	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)
	13.24	7.78	49.7	291	9.34	115/150

Sample Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: greenish-yellow color not seen

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B3W Date: 5/4/5

Project Name: 6M AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: sunny, breezy

Remarks: _____ Sampler(s): K Saunders

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 10.84 Well Depth (ft): 19.50

Water Column (ft): 8.66 Water Column (gal.) 0.35 Casing Dia. (in): 1

Clear Bailer Survey: LNAPL: Y / N / NA DNAPL: Y / N / NA

Volume of Water to be Purged (gal) [3 volume method]: 1.06

Screen Interval (ft bgs): _____ Intake (ft bgs): _____

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): ~0.12

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA:

If 3 volume method: Start Time: 805 End Time: 835

Actual Volume Purged (gal.):

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 805							If 3 volume method, include Start Time chemistry data only
810	12.38	6.43	59.3	-31	6.76	—	
815	12.70	6.76	71.6	-46	6.61	280	
820	12.71	6.86	73.3	-62	6.34	115	
825	12.74	7.10	74.0	-78	5.91	87.5	
830	12.63	7.08	74.5	-84	5.75	81.4	
835	12.48	7.11	75.3	-98	5.51	210	

End Time: 835 Total Volume Purged (gal.): 3.5

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA:

Sample Time (Start / End): 835

Depth to Water (ft): 12.09 Sampling Method: Bailer / In-Line VOCs metals

If 3 volume method, indicate sample chemistry data	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)
	12.48	7.11	7.53	-98	5.51	2.10

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-4W Date: 5/4/4

Project Name: 6M AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: sunny breezy

Remarks: _____ Sampler(s): K. Saunders

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.53 Well Depth (ft): 14.61 Casing Dia. (in): 1

Water Column (ft): 2.08 Water Column (gal.) 0.08

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC; CD = Casing Dia. (ft); WC = Water Column (ft)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.25

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.01

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

WELL PURGE DATA: If 3 volume method: Start Time: 13:35 End Time: 1400

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 13:35							If 3 volume method, include Start Time chemistry data only
1340	16.99	9.30	20.6	234	9.68	—	Turbid
1345	17.99	9.17	32.7	237	9.35	—	turbid
1355	17.65	9.20	32.0	238	1.41	—	Turbid
1400	17.58	9.19	30.2	238	1.033	—	turbid

End Time: 1400 Total Volume Purged (gal.): ~0.25 gal

Purged Dry (Y) / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1400 / 1520

Depth to Water (ft): 13.85 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: slow recharge

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B5W Date: 5/4/4

Project Name: 6M AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: sunny, breezy

Remarks: _____ Sampler(s): K. Saunders

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.46 Well Depth (ft): 16.30 Casing Dia. (in): 1

Water Column (ft): 4.84 Water Column (gal.) 0.19

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.59

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.1

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC; CD = Casing Dia. (ft); WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1235 End Time: 1300

Actual Volume Purged (gal.):

Time	Temperature (°C) / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1235							If 3 volume method, include Start Time chemistry data only
1240	13.6	7.52	41.7	20	9.26	—	turbid
1245	~~13.8~~	7.12	42.6	17	6.55	—	turbid
1250	13.31	6.99	44.6	45	5.61	—	turbid
1255	13.24	7.01	44.9	35	6.78	—	turbid
1300	13.22	7.07	45.2	29	6.68	—	turbid

End Time: 1300 Total Volume Purged (gal.): ~2.5 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 1300

Depth to Water (ft): 13.73 Sampling Method: (Bailer) / In-Line VOCs Chromium

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)
	13.22	7.07	45.2	29	6.68	turbid

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B64N Date: 5/4/4

Project Name: GM AMEC Project No.: 276 360000

Project Location: Sleepy Hollow NY Weather: Sunny, breezy

Remarks: _____ Sampler(s): K. Saunders

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 10.51 Well Depth (ft): 14.35 Casing Dia. (in): 1

Water Column (ft): 3.84 Water Column (gal.) 0.16

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.47

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.05

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC; CD = Casing Dia. (ft); WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: ~~Start Time~~: 11:37 End Time: 1205

Actual Volume Purged (gal.):

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 11:37							If 3 volume method, include Start Time chemistry data only
11:40	13.94	8.37	77.6	-69	6.53	—	Turbid
11:45	13.91	7.29	51.2	211	8.09	—	Turbid
11:50	13.61	7.06	61.6	270	8.65	305	
11:55	13.53	7.12	60.4	290	8.77	329	
12:00	13.54	7.20	60.1	294	8.88	291	
12:05	13.55	7.28	50.2	296	9.02	252	

End Time: 1205 Total Volume Purged (gal.): 1.5 to 2 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 12:05

Depth to Water (ft): 10.78 Sampling Method: ~~Bailer~~ / VOCs / Chromium / Hi-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)
	13.55	7.28	50.2	296	9.02	252

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B7W Date: 5/4/4

Project Name: GM AMEC Project No.: 276360 000

Project Location: Sleepy Hollow NY Weather: sunny breezy

Remarks: _____ Sampler(s): K. Saunders

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.53 Well Depth (ft): 17.15 Casing Dia. (in): 1

Water Column (ft): 5.62 Water Column (gal.) 0.23

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.69

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 955 End Time: 1020

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 955							If 3 volume method, include Start Time chemistry data only
1000	13.61	7.58	75.2	222	10.37	—	Turbid
1005	13.67	7.36	82.6	131	9.72	—	turbid
1010	13.72	7.10	85.9	109	8.95	—	turbid
1015	13.72	7.06	87.1	107	8.58	—	turbid
1020	13.62	7.14	87.5	91	8.11	—	turbid

End Time: 1020 Total Volume Purged (gal.): _____

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1020

Depth to Water (ft): 11.66 Sampling Method: Bailer / (In-Line) VOCs Chromium

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)
	13.62	7.14	87.5	91	8.11	turbid

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:
filtered sample greenish-yellow

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-BTW Date: 05/24/2004

Project Name: General Motors AMEC Project No.: 2763660000

Project Location: Sleepy Hollow, NY Weather: SUNNY/WARM

Remarks: _____ Sampler(s): AC

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.06 Well Depth (ft): 17.83 Casing Dia. (in): 1

Water Column (ft): 5.77 Water Column (gal.) .2354

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): .7062

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)^2 * (CD/2)^2 * 3.23 = Vwc

CD = Casing Dia. (ft)

Vwc = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1239 End Time: 1340

Actual Volume Purged (gal.): _____

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1239			S/M				If 3 volume method, include Start Time chemistry data only
1245	15.88	8.05	0.108	124	7.88	—	Too Turbid
1300	15.74	8.39	0.104	125	8.77	—	Too Turbid
1310	15.95	8.04	0.103	134	8.19	560	
1320	15.99	8.00	0.102	140	7.73	420	Yellowish
1330	15.91	8.01	0.101	142	7.81	440	"
1336	16.05	8.02	0.100	142	7.81	400	"
1340	16.02	8.02	0.100	142	7.74	360	

End Time: 1340 Total Volume Purged (gal.): 7

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1342

Depth to Water (ft): 12.13 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: SAMPLED SI-47-BTW FOR CL (FILTERED AND UNFILTERED) IN-LINE AND VOCs USING BAILER.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-138W Date: 5/4/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow NY Weather: sunny, windy

Remarks: _____ Sampler(s): K. Saunders

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.39 Well Depth (ft): 18.76 Casing Dia. (in): 1

Water Column (ft): 6.37 Water Column (gal.) 0.26

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.78

Purging Method: HB (PP) / CP / SP Pumping Rate (gpm): 0.12

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID (TURBID)

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 9:05 End Time: 9:30

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 9:05							If 3 volume method, include Start Time chemistry data only
9:10	12.43	7.08	71.3	-125	9.30	—	Turbid
9:15	12.25	6.97	71.6	-132	8.09	—	turbid
9:20	12.48	7.14	71.0	-155	7.28	—	turbid
9:25	12.26	7.17	70.8	-166	6.91	—	turbid
9:30	12.26	7.17	70.7	-170	5.82	—	looks slightly turbid

End Time: 9:30 Total Volume Purged (gal.): ~3

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 9:30

Depth to Water (ft): 12.49 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)
	12.26	7.17	70.7	-170	5.82	slightly turbid

Sample Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: Sample appeared slightly turbid to turbid but readings were higher than instrument limits

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B Date: 05/24/2004

Project Name: General Motors AMEC Project No.: 2162360000

Project Location: Sleepy Hollow, NY Weather: Cloudy, cool

Remarks: Sampler(s): JAL

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 12.78 Well Depth (ft): 18.97 Casing Dia. (in): 1 1/4

Water Column (ft): 08.8 Water Column (gal.) .2526

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): .7578

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. (in) (ft)	Gallons / Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)² x (CD/2) x 23.5 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1119 End Time: 1205

Actual Volume Purged (gal.): 6

Time	Temperature (°C) °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1119			ms/m				If 3 volume method, include Start Time chemistry data only
1120	14.58	9.35	66.6	103	9.26	—	TOO TURBID FOR READING
1130	14.18	8.32	75.6	113	8.13	420	CLOUDY
1140	14.22	8.40	75.9	111	8.54	140	SLIGHTLY CLOUDY
1145	14.29	8.42	76.3	110	8.70	120	SLIGHTLY CLOUDY
1150	14.34	8.43	76.3	108	8.60	110	
1155	14.33	8.46	76.3	106	8.86	110	
1200	14.33	8.48	76.4	105	8.90	100	

End Time: 1205 Total Volume Purged (gal.): 6

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 1214

Depth to Water (ft): 12.82 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: SAMPLED SI-47-BOW FOR VOCs WITH BAILER & Cr (Filtered & Unfiltered) in line.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-12W Date: 05/25/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: Sunny Hot

Remarks: _____ Sampler(s): JK

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): _____ Well Depth (ft): _____ Casing Dia. (in): _____

Water Column (ft): _____ Water Column (gal.) _____

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): _____

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: _____ End Time: _____

Actual Volume Purged (gal.): _____

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only

End Time: _____ Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B13 Date: 05/24/2004

Project Name: General Motors AMEC Project No.: 27636000

Project Location: Sleepy Hollow, NY Weather: CLOUDY, COOL

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 13.41 Well Depth (ft): 18.49 Casing Dia. (in):

Water Column (ft): 5.08 Water Column (gal.) 0.2073

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.6218 gal

Purging Method: HB (PP) CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x Wc
CD = Casing Dia. (ft)
Wc = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time 0843 End Time: 0920

Actual Volume Purged (gal.): 2.5 gallons

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0843			MS/M				If 3 volume method, include Start Time chemistry data only
0845	15.34	8.15	41.0	71	6.20	—	TURBIDITY TOO HIGH
0920	16.01	8.86	59.0	92	8.98	—	TURBIDITY TOO HIGH
0925	15.89	8.81	58.8	93	8.85	—	TURBIDITY TOO HIGH
0930	15.71	8.82	58.6	93	8.87	—	TURBIDITY TOO HIGH

End Time: _____ Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: DID NOT SAMPLE — TOO TURBID. TRIED ADJUSTING PUMP SPEED AND POSITION OF TUBE IN WELL.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B14 Date: 05/24/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: CLOUDY, COOL

Remarks: _____ Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm): NA

Depth to Water (ft): 13.66 Well Depth (ft): _____ Casing Dia. (in): _____

Water Column (ft): _____ ~~Water Column (gal.)~~ METER OFF SCALE REACHED 13.66'

Casing Dia. in. (ft)	Gallons (Liters) per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: $(CD/2)^2 \times (CD/2) \times 2.5 = \text{Vol.}$ CD = Casing Dia. (ft) WC = Water Column (ft)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (8 volume method): _____

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: ~~0949~~ 0949 End Time: 1035

Actual Volume Purged (gal.): 3.5

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0949			ms/m				If 3 volume method, include Start Time chemistry data only
0955	14.06	8.67	69.8	104	8.40	250	
1000	13.99	8.39	68.7	112	8.46	77	CLEAR
1005	12.98	8.24	68.9	117	8.46	81	
1010	13.97	8.26	68.8	118	8.08	57	
1015	14.01	8.23	69.0	119	8.01	56	
1020	13.97	8.23	69.0	121	8.62	49	
1025	13.96	8.24	69.0	122	8.70	48	

End Time: 1035 Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1037

Depth to Water (ft): _____ Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: DUPLICATE SAMPLED SI-47-B14- FOR VOCs AND Cr (filtered/unfiltered)

bailer in line

SI-47-B14 5/24/04

TIME	TEMPERATURE	pH	CONDUCTIVITY	REDOX	DO	TURBIDITY
1030	13.99	8.19	68.8	123	8.47	47
1035	14.05	8.18	69.0	125	8.42	44

* bailer only half full each time - turbid.
4th bailer empty. waited 5 minutes

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B15 Date: 05/24/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: SUNNY, WARM

Remarks: Sampler(s): JAZ

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 10.94 Well Depth (ft): 14.61 Casing Dia. (in): 4

Water Column (ft): 3.67 Water Column (gal): 1.44

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): .4491

Purging Method: HB (PP) CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.14 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1409 End Time: 1450

Actual Volume Purged (gal.):

Time	Temperature (°C) °F	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1409			ms/m				If 3 volume method, include Start Time chemistry data only
1415	16.93	9.57	73.5	60	9.11	—	Turbidity too high/yellow
1420	16.74	9.18	74.5	73	9.08	—	" / yellow-brown
1425	16.77	9.07	74.8	78	9.09	830	yellow-brown
1430	16.75	9.02	75.0	79	9.11	810	
1435	16.79	8.97	75.1	78	9.14	650	
1440	16.82	8.96	75.0	78	9.12	600	
1445	16.79	8.94	75.1	77	9.14	590	

End Time: 1450 Total Volume Purged (gal.): 4

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 1452

Depth to Water (ft): 10.94 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B16W Date: 7/27/4

Project Name: BM Sleepy Hollow AMEC Project No.: 276 360 000

Project Location: NY Weather: cloudy

Remarks: TEMPORARY WELL Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 9.09 Well Depth (ft): 11.96 Casing Dia. (in): 1"

Water Column (ft): 2.87 Water Column (gal.): 0.12

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.35

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.1

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID) BROWN

Casing Dia. In. (ft)	Gallons Water per Linear Ft
~~1 (0.083)~~	~~0.0408~~
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)x(CD/2)x3.14x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 7:37 End Time: 8:40

Actual Volume Purged (gal.): 6

Time	Temperature (°C) / °F	pH (units)	Conductivity ~~(us/cm)~~ mS/m	REDOX (Eh-mV)	DO ~~(mg/l)~~ g/L	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
7:40	18.29	6.51	54.3	238	3.76	—	
7:50	18.24	7.38	54.0	222	4.56	916	
8:00	18.23	7.60	53.8	232	6.56	473	
8:10	18.56	7.51	55.1	227	4.95	457/26	
8:20	18.56	7.53	55.0	227	5.07	98.2/5.2	
8:30	18.73	7.51	54.8	225	5.16	97.4/3.5	
8:40	18.65	7.50	54.8	222	5.28	96.7/2.2	

End Time: 8:40 Total Volume Purged (gal.): 6

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 8:40

Depth to Water (ft): 9.11 Sampling Method: (Bailer) VOCs / In-Line Chromium

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: ~~CLEAR~~ metals / SLIGHTLY TURBID / (TURBID) VOCs

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: Chromium (Unfiltered & Filtered, 0.45 micron) and VOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B17 Date: 07/27/2004

Project Name: General Motors AMEC Project No.: 27636 0000

Project Location: Sleepy Hollow, NY Weather: Cloudy, Cool ~70°F

Remarks: Well Sampling Sampler(s): Cumberbatch

WELL PURGING: PID Head Space Reading (ppm): _____

13.87 / 7.44

Depth to Water (ft): 7.44 Well Depth (ft): 13.87 Casing Dia. (in): 1"

Water Column (ft): 6.43 Water Column (gal.) .2623

Casing Dia. in (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): .7870 gal

Purging Method: HB (PP) CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC; CD = Casing Dia. (ft); WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 0750 End Time: 0900

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~ s/m	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
0750	18.18	7.88	0.210	37	0.71	-5	
0800	18.17	8.44	0.152	-133	0.35	800	BROWN/ WATER
0805	18.06	8.50	0.131	-196	0.29	400	"
0810	17.92	8.52	0.117	-224	0.23	310	CLOUDY BROWN W/PARTICLES
0815	17.94	8.51	0.106	-239	0.16	300	
0820	17.84	8.52	0.094	-251	0.12	280	TURB = 76.9 NTU USING OTHER METER
0825	17.88	8.51	0.085	-255	0.12	270	

End Time: 0900 Total Volume Purged (gal.): _____

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): 7.48 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: SAMPLED UNFILTERED AND FILTERED CHROMIUM IN-LINE. SAMPLED VOAs WITH BAILER.

SI-41-DVI 7/27/04

TIME	TEMPERATURE °C	pH	CONDUCTIVITY MS/M	REDOX MV	DO mg/L	TURBIDITY NTU	COMMENTS
0830	17.96	8.49	79.1	-259	0.10	230/51.1	SLIGHTLY CLEAR
0835	17.94	8.47	74.4	-262	0.08	260/55.1	SLIGHTLY CLEAR
0840	17.95	8.42	71.7	-265	0.07	178/46.8	MOSTLY CLEAR
0845	17.95	8.40	67.3	-267	0.06	110/25.5	"
0850	17.92	8.35	65.2	-266	0.05	86/21.3	"
0855	17.89	8.29	62.8	-264	0.05	98/22	
0900	17.86	8.24	60.5	-261	0.05	96	
0905							
0910							

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B18W Date: 7/26/14

Project Name: GM SLEEPY HOLLOW AMEC Project No.: 276 360 000

Project Location: NY Weather: SUNNY HOT

Remarks: TEMPORARY WELL Sampler(s): K. SAUNDERS

WELL PURGING:

PID Head Space Reading (ppm): _____

Height of Stick-up 2'9"

Depth to Water (ft): 6.95 Well Depth (ft): 12.29 Casing Dia. (in): 1

Water Column (ft): 5.34 Water Column (gal.) 0.22

Casing Dia. (in) (ft)	Gallons/Foot per Linear Ft
1 (0.083)	0.0408
~~2 (0.167)~~	~~0.1632~~
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.65

Purging Method: HB (PP) / CP / SP Pumping Rate (gpm): 0.16

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

WELL PURGE DATA: If 3 volume method: Start Time: ~~14:09~~ 14:09 End Time: 15:10

Actual Volume Purged (gal.): 9.5

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm) mS/m	REDOX (Eh-mV)	DO (mg/l) g/L	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
14:10	24.79	9.79	22.4	111	4.06	—	
14:20	24.68	9.05	20.4	106	1.14	92.4	
14:30	24.54	8.65	20.1	96	0.77	22.2	
14:40	24.66	8.24	19.9	58	0.63	7.1	
14:50	24.59	8.11	19.7	17	0.55	5.3	
15:00	24.60	8.01	19.6	-4	0.55	4.2	
15:10	24.59	7.89	19.6	-16	0.50	4.6	

End Time: 15:10 Total Volume Purged (gal.): 9.5

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 15:10

Depth to Water (ft): 6.96 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID (Metals) (VOCs)

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: Chromium VOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: SI-47-B19W Date: 7/26/4

Project Name: GM SLEEPY HOLLOW AMEC Project No.: 276360005

Project Location: NY Weather: SUNNY

Remarks: TEMPORARY WELL Sampler(s): K. SAUNDERS

WELL PURGING: 4'4" HEIGHT OF STICK-UP PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.27 Well Depth (ft): 14.71 Casing Dia. (in): 1

Water Column (ft): 2.44 Water Column (gal.) 0.10

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 0.30

Alternate Calculation: (CD/2) x (CD/2) x 3.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): 0.55
(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID BROWN

WELL PURGE DATA: If 3 volume method: Start Time: 12:42 End Time: 13:45

Actual Volume Purged (gal.): 3.5

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 12:42			ms/m		g/L		If 3 volume method, include Start Time chemistry data only
12:45	25.22	9.66	56	146	6.06	—	
12:55	23.75	8.77	54.6	80	3.54	720	SWITCH TO 4-22-07
13:10	23.23	6.78	54.5	187	8.44	8.0196	
13:15	23.85	7.00	54.3	143	4.23	87.8	
13:20	22.91	7.31	54.1	100	4.22	23.2	
13:25	22.95	7.40	54.1	69	4.30	8.7	
13:40	23.03	7.42	53.4	63	4.31	9.3	
End Time: 13:45					Total Volume Purged (gal.):		
13:45	23.06	7.43	53.8	56	4.32	2.2	

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 13:45

Depth to Water (ft): 12.47 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: Metals CLEAR / SLIGHTLY TURBID / TURBID VOCs - BROWN

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: Chromium (Unfiltered & Filtered (0.45µ) in-line & VOCs with bailer

GM Tarrytown NY
64462-027
Site

Site Investigation Sampling
Event

GROUNDWATER SAMPLING LOG

Sampling Personnel:	Jo Ann Robertson	**Well ID:**	SI-47-B27
Client / Job Number:	GM Tarrytown NY 64462-027	**Date:**	10/5/04
Weather:	60° Clear	**Time In:** 14:00	**Time Out:** 15:35

Well Information

Depth to Water:	(feet) 11.12 / 2.3 raiser	(from MP)		
Total Depth:	(feet) 18.62	(from MP)		
Length of Water Column:	(feet)			
Volume of Water in Well:	(gal)			
Three Well Volumes:	(gal)			

Well Type:	Flushmount		(Stick-Up)
Well Material:	Stainless Steel		(PVC)
Well Locked:	Yes		(No)
Measuring Point Marked:	Yes		(No)
Well Diameter:	(1")	2"	Other: Jemo

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	(Bailer)	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	(min) ~~Stbz~~	14:04 – 15:30		
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:		Horiba U-10
Total Volume Removed:	(gal) 5	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	2:05	2:10	2:15	2:21	2:26	2:31	2:36	2:41	2:46
Volume Purged (gal)									
Rate (mL/min)	100								
Depth to Water (ft.)	NA								
pH	6.63	6.56	6.56	6.55	6.54	6.54	6.52	6.55	6.55
Temp. (C)	15.26	15.23	15.23	15.27	15.56	15.26	15.27	15.20	15.22
Conductivity (mS/cm)	0.530	0.542	0.545	0.543	0.542	0.541	0.541	0.544	0.543
Dissolved Oxygen	5.16	3.27	3.29	3.41	3.25	3.25	4.05	3.19	3.23
ORP (mV)	82	23	34	37	38	39	47	42	45
Turbidity (NTU)	999	999	999	721.3	480	483	209	147	145
Notes:			cleaned meter			cleaned meter	change do to meter drainage (not calibrating)		

Sampling Information

Analyses	#	Laboratory
VOC		CAS
CF/total diss		CAS
Sample ID: SI-47-B27	Sample Time: 15:20	
MS/MSD: (Yes)	No	
Duplicate: Yes	(No)	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By: JRobertson		

Problems / Observations

GM Tarrytown NY
64462-027

Site Investigation Sampling

Site *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel:	Jo Ann Robertson	**Well ID:**	SI-47-B27
Client / Job Number:	GM Tarrytown NY 64462-027	**Date:**	10/5
Weather:		**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Well Type:	Flushmount		Stick-Up
Well Material:	Stainless Steel		PVC
Well Locked:	Yes		No
Measuring Point Marked:	Yes		No
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Grundfos	Other:

Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:		Horiba U-10
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	2:56	3:07							
Volume Purged (gal)									
Rate (mL/min)									
Depth to Water (ft.)									
pH	6.55	6.56							
Temp. (C)	15.19	15.20							
Conductivity (mS/cm)	0.544	0.545							
Dissolved Oxygen	3.17	3.70							
ORP (mV)	48	48							
Turbidity (NTU)	79.8	36.1							
Notes:									

Sampling Information

Analyses	#	Laboratory
		CAS
		CAS

Sample ID:		Sample Time:
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID		Dup. Time:
Chain of Custody Signed By:		

Problems / Observations

GM Tarrytown NY
64462-027
Site

Site Investigation Sampling
Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Jo Ann Robertson
Well ID: SI-47-B28
Client / Job Number: GM Tarrytown NY 64462-027
Date: 10/5/04
Weather: 65° Clear / Windy
Time In: 11:00 **Time Out:** 12:40

Well Information

Depth to Water:	12.3 (feet)	(2 ft raiser) (from MP)	
Total Depth:	19 (feet)	(from MP)	
Length of Water Column:	(feet) 6.7		
Volume of Water in Well:	(gal)		
Three Well Volumes:	(gal)		

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	(1")	2"	Other: temp. well

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	(Bailer)	(Peristaltic)	Grundfos	Other:

Duration of Pumping: (min) 11:21 - 12:27
Average Pumping Rate: (ml/min) 100 Water-Quality Meter Type: Horiba U-22
Total Volume Removed: (gal) 4 Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	
	11:31	11:36	11:41	11:46	11:53	11:57	12:00	12:05	12:08	12:11
Volume Purged (gal)										
Rate (mL/min)	100 ml/min	100								
Depth to Water (ft.)										
pH	6.81	6.85	6.91	6.94	7.02	7.05	7.05	7.08	7.08	7.0
Temp. (C)	14.45	14.41	14.38	14.30	14.30	14.51	14.26	14.26	14.30	14.2
Conductivity (mS/cm)	0.556	0.557	0.56	0.564	0.569	0.570	0.569	0.569	0.569	0.57
Dissolved Oxygen	2.82	2.60	4.06	3.79	2.91	2.79	2.74	2.74	2.79	2.74
ORP (mV)	88	61	54	44	42	40	51	57	58	61
Turbidity (NTU)	999	742	534	538	278	233	78.5	78.5	61.7	49.
Notes:				cleaned flow meter						

Sampling Information

Analyses	#	Laboratory
VOC	3	CAS
Cr/total/Diss	2	CAS

Sample ID: SI-47-B28 Sample Time: 12:25
MS/MSD: Yes (No)
Duplicate: (Yes) No
Duplicate ID SI-47-B28 Dup. Time:
Chain of Custody Signed By: JRobertson

Problems / Observations

Windy day, temp. changes with wind. turbidity was 46.8 at time of sampling.

GM Tarrytown NY
64462-027
Site

Site Investigation Sampling
Event

GROUNDWATER SAMPLING LOG

Sampling Personnel:	Jo Ann Robertson	**Well ID:**	SI-29-B36
Client / Job Number:	GM Tarrytown NY 64462-027	**Date:**	10-6-04
Weather:	65° Clear	**Time In:**	15:20 **Time Out:** 17:30

Well Information

Depth to Water:	(feet)	4.91 / 3mp (from MP)		
Total Depth:	(feet)	7 (from MP)		
Length of Water Column:	(feet)			
Volume of Water in Well:	(gal)			
Three Well Volumes:	(gal)			

Well Type:	Flushmount	Stick-Up	
Well Material:	Stainless Steel	PVC	
Well Locked:	Yes	No	
Measuring Point Marked:	Yes	No	
Well Diameter:	1"	2"	Other: temp.

Purging Information

Purging Method:	Bailer	Peristaltic	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Grundfos	Other:

Duration of Pumping:	(min)	15:31 – 17:15			
Average Pumping Rate:	(ml/min)	100	Water-Quality Meter Type:		Horiba U-10 / 22
Total Volume Removed:	(gal)	5 gallons	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9
Parameter:	3:38	3:48	3:58	4:03	4:08	4:13	4:18	4:23	4:28
Volume Purged (gal)									
Rate (mL/min)	150								
Depth to Water (ft.)									
pH	6.74	6.77	6.76	6.75	6.75	6.75	6.75	6.75	6.74
Temp. (C)	18.75	18.67	18.67	18.67	18.69	18.66	18.65	18.65	18.65
Conductivity (mS/cm)	0.522	0.506	0.489	0.484	0.481	~~0.481~~ 0.478	0.475	0.475	0.470
Dissolved Oxygen	1.19	2.52	0.46	0.42	0.40	0.40	0.38	0.36	0.36
ORP (mV)	-100	-112	-115	-116	-116	-117	-117	-118	-118
Turbidity (NTU)	530	435	375	242	157	89	49.7	46.2	36.2
Notes:	~~530~~	~~435~~							

Sampling Information

Analyses	#	Laboratory
		CAS
		CAS

Sample ID:		Sample Time:
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID		Dup. Time:
Chain of Custody Signed By:		

Problems / Observations

GM Tarrytown NY
64462-027
Site

Site Investigation Sampling
Event

GROUNDWATER SAMPLING LOG

Sampling Personnel:	Jo Ann Robertson	**Well ID:**	S1-29-B36
Client / Job Number:	GM Tarrytown NY 64462-027	**Date:**	
Weather:		**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Well Type:	Flushmount		Stick-Up
Well Material:	Stainless Steel		PVC
Well Locked:	Yes		No
Measuring Point Marked:	Yes		No
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Grundfos	Other:

Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:		Horiba U-10
Total Volume Removed:	(gal)		Did well go dry: Yes	No

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	4:33	4:38	5:03	5:08	5:10				
Volume Purged (gal)									
Rate (mL/min)	150								
Depth to Water (ft.)	NA								
pH	6.75	6.75	6.75	6.75	6.75				
Temp. (C)	18.68	18.64	18.59	18.57	18.61				
Conductivity (mS/cm)	0.465	0.466	0.455	0.454	0.453				
Dissolved Oxygen	0.35	0.35	0.38	0.33	0.33				
ORP (mV)	-118	-119	-113	-115	-116				
Turbidity (NTU)	33.3	39.2	21.0	16.1	15.5				
Notes:									

Sampling Information

Analyses	#	Laboratory
		CAS
		CAS

Sample ID:		Sample Time:
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID		Dup. Time:
Chain of Custody Signed By:		

Problems / Observations

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: ~~OW-4~~ OW-3 Date: 05/25/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: SUNNY, WARM

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 1.28 Well Depth (ft): 14.02 Casing Dia. (in): 4

Water Column (ft): 12.74 Water Column (gal.): 8.31

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 24.95

Casing Dia. (in)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
~~4 (0.333)~~	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)² x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):
(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)
Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 0935 End Time: 1035

Actual Volume Purged (gal.): 17

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0935			ms/m				If 3 volume method, include Start Time chemistry data only
0940	13.39	7.36	36.1	-61	0.00	89	SLIGHTLY CLEAR
0950	12.79	8.42	45.7	-140	0.00	12	CLEAR
1000	12.99	8.67	46.1	-148	0.00	10	
1005	13.07	8.74	46.2	-150	0.00	10	
1010	12.47	8.97	45.8	-165	0.00	11	
1015	12.69	9.06	46.1	-170	0.00	8	
1020	12.63	9.20	46.1	-180	0.00	6	
1025							

End Time: 1035 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 1041

Depth to Water (ft): 1.31 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: VOCs & SVOCs (Stars)
Dupl ate

OW-3 5/25/2004

TIME	TEMP	pH	conductivity	redox	DO	turbidity
1030	12.82	9.28	45.9	-185	0.00	8
1035	12.84	9.33	46.0	-188	0.00	6

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-4 Date: 05/21/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow NY Weather: Sunny, Hot 79°

Remarks: Sampler(s): JC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): Flush w/CASING Well Depth (ft): 13.53 Casing Dia. (in): 4

Water Column (ft): 13.53 Water Column (gal.)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: ~~If 3 volume method:~~ Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-06 Date: 5/21/4

Project Name: GM AMEC Project No.: 276 360 008

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY

Remarks: Sampler(s): R. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 8.24 Well Depth (ft): 14.43 Casing Dia. (in): 2

Water Column (ft): 6.19 Water Column (gal.) 1.01

Casing Dia. in. (ft)	Gallons/Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 3.0

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 10:10 End Time:

Actual Volume Purged (gal.): 3

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~ s/m	REDOX (Eh-mV)	DO ~~(mg/l)~~ g/L	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
10:11	13.42	8.19	47.2	-143	7.26	10.3	
10:15	12.60	8.14	37.5	-204	0.62	9.5	
10:20	12.58	8.12	34.9	-220	0.47	4.9	
10:25	12.57	8.10	34.0	-222	0.50	2.9	

End Time: 10:25 Total Volume Purged (gal.):

Purged Dry: Y (N) ~~8.22~~ If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 10:25

Depth to Water (ft): 8.22 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-06-1 and OW-06-2 (DUPLICATE) FOR METALS

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-7 Date: 05/21/2004

Project Name: General Motors AMEC Project No.: 2163600000

Project Location: Sleepy Hollow, NY Weather: OVERCAST

Remarks: Sampler(s): JDC

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 8.96 Well Depth (ft): 14.89 Casing Dia. (in): 2

Water Column (ft): 5.93 Water Column (gal.) .967B

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 2.903

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.14 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1028 End Time: 1050

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1028			ms/m				If 3 volume method, include Start Time chemistry data only
1030	12.84	8.46	85.6	35	1.81	40	
1035	12.58	7.95	86.8	38	0.00	7	
1040	12.53	7.92	86.1	38	0.00	0	
1045	12.48	7.93	85.9	38	0.00	0	
1050	12.53	7.93	85.1	38	0.00	0	

End Time: 1050 Total Volume Purged (gal.): 4

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1053

Depth to Water (ft): 8.86 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: Metals Only - FILTERED / UNFILTERED IN-LINE

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-8 Date: 5/19/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: RAIN, LIGHT

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 6.76 Well Depth (ft): 14.84 Casing Dia. (in): 2

Water Column (ft): 8.08 Water Column (gal.) 1.32

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 3.96

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.15

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 11:36 End Time: 12:08

S/M Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time					S/L		If 3 volume method, include Start Time chemistry data only
11:37	14.35	7.07	0.121	-132	10.63	23.5	
11:45	14.03	7.03	0.117	-197	7.31	8.3	
11:50	14.04	7.02	0.117	-216	6.36	7.6	
11:55	14.04	7.02	0.117	-228	5.52	7.3	
12:00	14.07	7.01	0.117	-234	4.91	7.3	
12:05	14.01	7.01	0.117	-246	3.93	7.4	

End Time: Total Volume Purged (gal.): 5 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 12:10

Depth to Water (ft): 6.74 Sampling Method: (Bailer) / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

OW-8-I VOCs & SVOCs (STARS

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-8 Date: 05/26/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: CLOUDY/RAIN/56°F

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 6.31 Well Depth (ft): 14.84 Casing Dia. (in): 2

Water Column (ft): 8.53 Water Column (gal.) 1.392

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 4.176 gal

Alternate Calculation: (CD/2)² x (CD/2)² x 23.1 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, ~~PP = Peristaltic Pump~~, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 0821 End Time: 0855

Actual Volume Purged (gal.): 4.5

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0821			s/m				If 3 volume method, include Start Time chemistry data only
0825	14.05	6.89	0.126	-117	8.31	14.6	CLEAR
0830	14.86	6.93	0.129	-139	6.80	6.2	"
0835	14.84	6.92	0.130	-143	6.25	5.6	"
0840	14.79	6.93	0.131	-147	5.55	5.5	"
0845	14.79	6.97	0.130	-151	5.38	5.4	"
0850	14.74	7.00	0.130	-151	5.25	5.4	
0855	14.68	7.02	0.130	-148	5.14	5.4	

End Time: 0855 Total Volume Purged (gal.): 4.5

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 0858

Depth to Water (ft): 6.36 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: SAMPLED WELL OW-8 FOR METALS (FILTERED AND UNFILTERED) IN-LINE.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-12 Date: 5/21/07

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY, HUMID

Remarks: _____ Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 4.48 Well Depth (ft): 14.48 Casing Dia. (in):

Water Column (ft): 10.00 Water Column (gal.) 1.63

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 4.89

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 14:04 End Time: _____

Actual Volume Purged (gal.): 5

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			s/m		g/L		If 3 volume method, include Start Time chemistry data only
14:05	14.09	7.34	70.7	-18	4.81	6.0	
14:10	14.52	7.50	61.8	-214	0.46	0.6	
14:15	14.57	7.54	61.7	-218	0.35	0.8	
14:20	14.52	7.54	61.8	-220	0.29	0.0	
14:25	14.63	7.54	61.8	-220	0.30	0.0	

End Time: 14:25 Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 14:30

Depth to Water (ft): 4.47 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: OW-12-1 SVOCs & VOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-21 Date: 05/27/2004

Project Name: General Motors AMEC Project No.: 2762360000

Project Location: Sleepy Hollow, NY Weather: Cool, breezy

Remarks: Sampler(s): JJC

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 1.95 Well Depth (ft): 14.69 Casing Dia. (in): 2

Water Column (ft): 12.74 Water Column (gal.) 2.08

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.24

Purging Method: ~~HB~~ / ~~PP~~ / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.6 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1813 End Time: 1850

Actual Volume Purged (gal.):

Time	Temperature (°C) °F	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1813	ERROR3	??	ms/m	Instrument	batt.		If 3 volume method, include Start Time chemistry data only
1820	13.69	7.56	91.8	-226	0.44	105	
1825	13.70	7.54	91.7	-226	0.38	90.6	Clear/smells like petro.
1830	13.61	7.48	91.6	-223	0.35	74.9	clear
1835	13.61	7.71	91.2	-237	0.31	59.5	
1840	13.61	7.76	91.1	-241	0.31	58.8	clear
1845	13.61	7.74	91.1	-240	0.31	58.4	
1850	13.59	7.79	91.1	-245	0.29	58.2	

End Time: 1850 Total Volume Purged (gal.): 12

Purged Dry: Y / ~~N~~ If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (~~Start~~ / End): 18:55

Depth to Water (ft): 1.90 ft. Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: SAMPLED OW-21 FOR VOCs AND SVOCs (STARS) USING RANGER

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-22 Date: 05/21/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: OVERCAST/HUMID/90°

Remarks: Sampler(s): JC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 2.53 Well Depth (ft): 14.93 Casing Dia. (in): 2

Water Column (ft): 12.40 Water Column (gal.) 2.02

Casing Dia. - in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.06 gal

Alternate Calculation: (CD/2) x (CD/2) x 0.34 = 1 VC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 1351 End Time: 1415

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~ s/m	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1351							If 3 volume method, include Start Time chemistry data only
1355	12.93	7.65	0.211	-143	0.00	39	CLEAR
1400	13.13	7.73	0.136	-153	0.00	0	CLEAR
1405	13.45	7.80	0.119	-161	0.00	0	
1410	13.51	7.84	0.116	-164	0.00	0	
1415	13.63	7.85	0.118	-166	0.00	0	

End Time: 1415 Total Volume Purged (gal.): 7

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start) / End): 1419

Depth to Water (ft): 2.55 Sampling Method: (Bailer) / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-22-1 FOR VOC & SVOC (STARS) WITH BAILER

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-24 Date: 5/3/14

Project Name: GM Sleepy Hollow AMEC Project No.: 276 360 000

Project Location: Sleepy Hollow, NY Weather: raining

Remarks: Sampler(s): K. Saunders

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 10.31 Well Depth (ft): 18.84 Casing Dia. (in): 2

Water Column (ft): 8.53 Water Column (gal.) 1.39

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1200 End Time: 1230

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1200							If 3 volume method, include Start Time chemistry data only
1215	13.62	6.77	0.2	188	11.33	40	
1225	13.50	6.16	0.1	261	10.86	33	
pumped dry							

End Time: 1230 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: OW-24-1 Sample Time (Start / End): 1230

Depth to Water (ft): OW-24-2 (duplicate) Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: used bailer for VOCs & Chromium (filtered & unfiltered)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-25 Date: 05/21/2004

Project Name: General Motors AMEC Project No.: 2163600000

Project Location: Sleepy Hollow, NY Weather: overcast

Remarks: Sampler(s): JMC

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.42 Well Depth (ft): 17.58 Casing Dia. (in): 2

Water Column (ft): 6.16 Water Column (gal.) ~~2.053~~ 1.005

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 3.015 gal

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons/Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC = _____
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1114 End Time: _____

Actual Volume Purged (gal.): _____

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~ s/m	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1114							If 3 volume method, include Start Time chemistry data only
1115	17.23	8.00	0.178	68.0	7.43	750	
1120	14.86	7.95	0.179	67	5.16	500	
1125	14.09	7.75	0.175	-8	3.06	370	
1135	13.72	7.75	0.174	-62	1.17	37	
1140	14.36	7.78	0.170	-69	0.74	12	
1145	15.02	7.82	0.170	-74	0.73	8	

End Time: 1145 Total Volume Purged (gal.): 3.5

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1149

Depth to Water (ft): 11.49 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: SAMPLE OW-25-1 FOR VOC & SVOC (STARS) WITH BAILER

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-27 Date: 05/19/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: OVERCAST

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 6.87 Well Depth (ft): 15.96 Casing Dia. (in):

Water Column (ft): 9.09 Water Column (gal.) 1483

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1355						60	CLOUDY WATER
1400						30	
1410						45	
1415						20	
1420						13	
1425						7.2	
1430						6.0	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-28 Date: 5/14/04

Project Name: GM AMEC Project No.: 276360008

Project Location: Sleepy Hollow, NY Weather:

Remarks: Sampler(s): C. Schrader

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 12.1' Well Depth (ft): 21.66' Casing Dia. (in):

Water Column (ft): Water Column (gal.):

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)² x (CD/2) x 2.6 = Vol.
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1250 End Time: 1345

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1300						116.2	
1310						77.2	
1320						18.2	
1330						5.24	
1335						3.66	
1340						3.57	
1345						3.42	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-28 Date: 5/21/14

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 12.14 Well Depth (ft): 21.29 Casing Dia. (in): 2

Water Column (ft): 9.15 Water Column (gal.) 1.49

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 4.5

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 9:16 End Time:

Actual Volume Purged (gal.): 4.5

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			s/m		g/L		If 3 volume method, include Start Time chemistry data only
9:20	13.25	7.86	75.4	-217	8.87	86.7	
9:25	13.21	7.81	88.7	-216	7.35	26.4	
9:30	13.63	7.77	94.3	-204	7.00	22.8	
9:35	13.46	7.77	96.8	-218	0.91	20.5	
9:40	13.50	7.78	96.1	-219	0.74	12.3	

End Time: 9:40 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 9:45

Depth to Water (ft): 12.24 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-28-I FOR VOCs & SVOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-27 Date: 5/21/04

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY Hollow NY Weather: CLOUDY

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 6.98 Well Depth (ft): 15.75 Casing Dia. (in):

Water Column (ft): 8.8 Water Column (gal.) 1.44

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 4.3

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

Alternate Calculation: (CD/2)² x (CD/2) x 2.4 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 10:45 End Time:

Actual Volume Purged (gal.): 5

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 47			s/m		g/L		If 3 volume method, include Start Time chemistry data only
10:50	13.05	7.88	0.204	-84	2.10	566.0	
10:51	13.13	7.70	0.174	-96	0.56	105.0	
10:55	13.11	7.75	0.175	-102	0.38	37.2	
11:00	13.08	7.74	0.180	-108	0.36	20.4	
11:05	13.01	7.74	0.178	-112	0.32	15.6	
11:10	13.03	7.74	0.181	-114	0.28	16.1	

End Time: 11:10 Total Volume Purged (gal.):

Purged Dry: (Y) / N No If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 11:15

VOCs, SVOCs

Depth to Water (ft): 7.01 Sampling Method: (Bailer) / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

SVOCs

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-27-1 for VOCs & SVOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-29 Date: 5/13/04

Project Name: GM AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather:

Remarks: Sampler(s): C. Schrader

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 11.6' Well Depth (ft): 22.8' Casing Dia. (in):

Water Column (ft): Water Column (gal.)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. (in)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

WELL PURGE DATA: If 3 volume method: Start Time: 1310 End Time: 1520

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1435						124.7	
1445						73.4	
1455						21.4	
1505						17.5	
1510						13.2	
1515						12.7	
1520						12.4	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-29 Date: 5/20/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: HAZY, SUNNY

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 12.00 (FROM TOP OF SLAB) Well Depth (ft): 23.50 Casing Dia. (in): 2

Water Column (ft): 11.5 Water Column (gal.) 1.88

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.6

Alternate Calculation: (CD/2)² x (CD/2) x 2.6 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 13:18 End Time:

Actual Volume Purged (gal.): 6

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			S/m		g/L		If 3 volume method, include Start Time chemistry data only
13:20	15.67	7.28	0.661	-184	9.69	514.0	
13:30	16.15	7.28	0.669	-187	0.36	119.0	
13:40	15.90	7.28	0.671	-188	0.41	43.7	
13:45	15.92	7.29	0.671	-189	0.40	28.4	
13:50	16.05	7.28	0.674	-189	0.35	22.6	
13:55	16.17	7.28	0.671	-188	0.32	17.5	
14:00	15.98	7.27	0.670	-188	0.32	16.6	
End Time: 14:08	14:09 15.69	7.27	0.666	-188	Total Volume Purged (gal.): 0.24	16.0	

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 14:10

Depth to Water (ft): 12.00 Sampling Method: Bailer / In-Line (VOCs SVOCs)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

GRAY

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

OW-29-1 for VOCs & SVOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-30 Date: 5/18/04

Project Name: GM AMEC Project No.: 276360000

Project Location: Tarrytown, NY Weather: overcast, 60s

Remarks: Sampler(s): J. LaRock

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.09' Well Depth (ft): 24.62' Casing Dia. (in):

Water Column (ft): _____ Water Column (gal.) _____

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): _____

Alternate Calculation: (CD/2)² x (CD/2) x 3.14 x WC = Casing Dia. (ft); WC = Water Column (ft)

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 0830 End Time: 1020

Actual Volume Purged (gal.):

Time (24hrs)	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
9:45						22	
9:55						18	
10:05						25	
10:10						20	
10:15						21	
10:20						20	

End Time: _____ Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-30 Date: 05/21/2004

Project Name: GENERAL MOTORS AMEC Project No.: 2763600000

Project Location: SLEEPY HOLLOW, NM Weather: OVERCAST

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 11.31 Well Depth (ft): 24.39 Casing Dia. (in): 2

Water Column (ft): 13.08 Water Column (gal.) 2.135

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.41 gal

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)^2 x (CD/2) x 3.5 = WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 0914 End Time: 0950

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0914			ms/m				If 3 volume method, include Start Time chemistry data only
0920	14.49	8.71	73.3	-149	0.64	210	SLIGHTLY TURBID
0925	14.59	9.11	68.7	-160	0.00	40	CLEAR
0930	14.56	9.22	67.8	-164	0.00	15	
0935	14.65	9.25	67.9	-165	0.00	8	
0940	14.62	9.26	67.8	-165	0.00	6	
0945	14.62	9.26	67.9	-165	0.00	6	
0950	14.62	9.26	68.1	-164	0.00	7	

End Time: 0950 Total Volume Purged (gal.): 7 gallons

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 0953

Depth to Water (ft): 11.65 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: SAMPLE OW-30-1 FOR VOC AND SVOC (STARS) WITH BAILER.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-31 Date: 5/18/04

Project Name: GM AMEC Project No.: 276380 000

Project Location: Tarrytown, NY Weather: overcast, 60's

Remarks: Sampler(s): C. Schroder

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 9.92' Well Depth (ft): 24.50' Casing Dia. (in): _____

Water Column (ft): _____ Water Column (gal.) _____

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): _____

Purging Method: HB / PP / CP / (SP)

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, (SP) = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Pumping Rate (gpm): _____

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD-2) x (CD-2) x 23.5 = VC

CD = Casing Dia. (ft)

VC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 12:20pm End Time: 0200pm

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1220						30.2	
0130						21.7	
0140						10.8	
0150						9.8	
0200						10.2	

End Time: _____ Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-31 Date: 5/21/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 10.10 Well Depth (ft): 24.48 Casing Dia. (in): 2

Water Column (ft): 14.38 Water Column (gal.) 2.35

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 7.0

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.14 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 8:02 End Time:

Actual Volume Purged (gal.): 7

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			s/m		g/L		If 3 volume method, include Start Time chemistry data only
8:05	13.48	7.03	0.187	-262	0.63	78.5	
8:15	13.63	7.11	0.169	-338	0.35	31.4	
8:20	13.59	7.10	0.168	-341	0.37	23.4	
8:25	13.46	7.09	0.164	-346	0.35	10.6	
8:30	13.36	7.10	0.160	-360	0.30	8.3	
8:35	13.40	7.09	0.161	-365	0.29	5.6	

End Time: Total Volume Purged (gal.):

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 8:40

Depth to Water (ft): 10.14 Sampling Method: (Bailer) / In-Line (VOCs, SVOCs)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-31-I FOR VOCs & SVOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-32 Date: 05/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: Overcast

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 4.06 Well Depth (ft): 17.14 Casing Dia. (in):

Water Column (ft): 13.08 Water Column (gal.) 2.135

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / (SP)

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pumping Rate (gpm):

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1140						75	
1150						28	
1155						50	
1200						19	
1205						15	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-32 Date: 05/21/2024

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: OVERCAST, HUMID

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 4.09 Well Depth (ft): 16.97 Casing Dia. (in): 2

Water Column (ft): 12.88 Water Column (gal.) 2.10

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.30

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: ~~1122~~ 1223 End Time: 1255

Actual Volume Purged (gal.):

Time	Temperature (°C) °F	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1223			mS/m				If 3 volume method, include Start Time chemistry data only
1225	17.17	9.73	94.6	-120	7.97	410	
1230	14.23	8.90	0.113	-165	0.00	77	S/M conductivity
1235	14.70	8.97	0.128	-200	0.00	26	
1240	13.90	9.05	0.142	-219	0.00	20	
1245	13.86	9.25	0.144	-228	0.00	11	
1250	13.71	9.23	0.150	-241	0.00	9	
1255	13.90	9.28	0.151	-242	0.00	13	

End Time: 1255 Total Volume Purged (gal.): 6.5

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 1303

Depth to Water (ft): 4.31 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: DUPLICATE (OW-32-1 AND OW-32-2) FOR VOC & SVOC (STARS) WITH BOLDER

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-33 Date: 05/13/2004

Project Name: GM AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: OVERCAST, COOL

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 5.90 Well Depth (ft): 18.53 Casing Dia. (in):

Water Column (ft): 12.63 Water Column (gal.) 2.0612

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, (SP) = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
0930						220	
0940						160	
0950						80	
1010						55	
1020						80	
1030						55	
1040						75	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-33 Date: 5/21/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY Hollow NY Weather: CLOUDY, HUMID

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 6.12 Well Depth (ft): 18.50 Casing Dia. (in): 2

Water Column (ft): 12.38 Water Column (gal.) 2.02

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.06

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.1 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 12:51 End Time:

Actual Volume Purged (gal.): 7

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			s/m		g/L		If 3 volume method, include Start Time chemistry data only
13:00	13.41	7.70	62.6	-176	2.64	46.6	
13:05	12.98	7.51	65.1	-190	0.47	16.3	
13:10	12.93	7.49	66.5	-196	0.34	15.7	
13:15	13.01	7.45	68.4	-199	0.32	4.2	
13:20	13.01	7.43	69.1	-201	0.32	2.5	
13:25	13.01	7.44	68.7	-203	0.29	1.7	
13:30	13.29	7.46	67.0	-208	0.30	1.6	

End Time: 13:34 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 13:35

Depth to Water (ft): 6.13 Sampling Method: Bailer / In-Line (VOCs, SVOCs)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID GRAY FINES

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-33-1 FOR VOCs & SVOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: DW-34 Date: 05/13/2004

Project Name: GM AMEC Project No.: 276360000

Project Location: SLEEPY HOLLOW, NY Weather: OVERCAST

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): Well Depth (ft): Casing Dia. (in):

Water Column (ft): Water Column (gal.)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1410						110	
1420						95	
1430						70	
1440						85	
1450						80	
1500						75	
1510						85	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-34 Date: 5/21/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY

Remarks: Sampler(s): K SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 10.30 Well Depth (ft): 15.42 Casing Dia. (in): 2

Water Column (ft): 5.12 Water Column (gal.) 0.84

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 2.5

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

Casing Dia. in. (ft)	Gallons/Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.14 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 11:53 End Time:

Actual Volume Purged (gal.): 4

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~ S/m	REDOX (Eh-mV)	DO ~~(mg/l)~~ g/L	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
11:55	13.56	10.03	69.3	-78	4.75	61.3	REPLACE TUBING 11:58 RE-START 12:02
12:05	12.41	10.16	63.0	-83	1.01	35.6	
12:10	12.40	10.21	64.0	-107	0.48	42.8	
12:15	12.51	10.22	63.7	-131	0.37	39.6	
12:20	12.56	10.20	63.6	-135	0.35	40.8	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 12:25

Depth to Water (ft): 10.34 Sampling Method: (Bailer) / In-Line (VOCs & SVOCs)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

OW-34-1 MS/MSD TRIPLE VOLUME FOR VOCs & SVOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-34 Date: 7/26/4

Project Name: GM SLEEPY HOLLOW AMEC Project No.: 276 360 006

Project Location: NY Weather: SUNNY, LIGHT BREEZE

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm): —

Depth to Water (ft): 9.16 Well Depth (ft): 15.49 Casing Dia. (in): 2"

Water Column (ft): 6.33 Water Column (gal.) 1.03

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 3.1 gal

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.092

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump) 349 ml/min

Pre-Purge Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Lineal Ft.
1 (0.083)	0.0408
(2 (0.167))	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2 x (CD/2 x 3.1 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 8:59 End Time: 10:04

Actual Volume Purged (gal.): 6

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 8:59			mS/m		9/L		If 3 volume method, include Start Time chemistry data only
9:05	17.81	11.55	82.2	-7	5.25	100	
9:15	18.16	11.63	79.4	2	4.41	55/25.6	
9:25	17.92	11.67	77.7	3	3.99	46/18.4	
9:35	17.78	11.72	76.1	2	3.47	38/17.8	
9:~~45~~50	18.24	11.79	74.8	-2	3.06	37	
9:55	17.72	11.82	74.2	-2	2.91	41	
10:05	17.78	11.84	73.3	-4	2.67	37	

End Time: 10:05 Total Volume Purged (gal.): 6

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 10:05

Depth to Water (ft): 9.13 Sampling Method: (Bailer) / In-Line (VOCs / Metals)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: Metals, Unfiltered, & Filtered (0.45 micron)
VOCs w/bailer
+ DUP

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW 36 Date: 05/10/04

Project Name: GM AMEC Project No.: 276360000

Project Location: SLEEPY HOLLOW, NY Weather: SUNNY

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 4.88' Well Depth (ft): 16.8' Casing Dia. (in):

Water Column (ft): 11.92 Water Column (gal.) .9453

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 9:25							If 3 volume method, include Start Time chemistry data only
0940						—	TOO HIGH FOR METER TO READ
0955						—	TOO HIGH FOR METER
1005						—	TOO HIGH
1015						—	TOO HIGH
1025						—	TOO HIGH
1035						—	TOO HIGH
1150						350	STILL MUDDY AFTER PURGING

End Time: 12:20 Total Volume Purged (gal.): ~55 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-36 Date: 09/19/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: Overcast/Humid

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 4.85 Well Depth (ft): 15.83 Casing Dia. (in):

Water Column (ft): 10.98 Water Column (gal.) 1.7919

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2 (0.167))	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) X (CD/2) x 23.5 x WC; CD = Casing Dia. (ft), WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 0929 End Time: 1015

s/m Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO ~~(mg/l)~~ g/l	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0929							If 3 volume method, include Start Time chemistry data only
0929	14.72	7.30	0.152	146	0.10	770	
0940	14.69	8.25	0.151	107	0.00	45	
0954	14.74	8.54	0.150	83	0.00	13	
1000	14.75	8.57	0.150	78	0.00	13	
1005	14.75	8.58	0.150	75	0.00	11	
1010	14.77	8.60	0.150	72	0.00	10	
1015	14.74	8.60	0.150	71	0.00	10	

End Time: 1015 Total Volume Purged (gal.): ~8gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 10:10

Depth to Water (ft): 4.81 Sampling Method: (Bailer) / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-36-1 FOR VOCs AND SVOCs (STARS)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-37 Date: 5/19/4

Project Name: GM AMEC Project No.: 276 360 000

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY, HUMID

Remarks: Sampler(s): KS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 4.98 Well Depth (ft): 17.05 Casing Dia. (in): 2

Water Column (ft): 12.07 Water Column (gal.) 1.97

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.9

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): 0.14

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 8:52 End Time: 9:42

S/M Actual Volume Purged (gal.): ~7 gal.

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
8:53	14.46	6.97	0.122	163	2.62	113.0	
9:00	14.11	7.17	0.113	29	0.51	87.2	
9:10	14.27	7.25	0.110	34	0.41	26.0	
9:20	14.23	7.38	0.108	-19	0.34	15.8	
9:30 9:25	14.15	7.47	0.107	-34	0.29	8.7	RAIN BEGINS
9:35	14.15	7.48	0.106	-37	0.31	8.1	
9:40	14.13	7.49	0.106	-39	0.28	6.4	

End Time: 9:42 Total Volume Purged (gal.):

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: VOCs & SVOCs (STARS) Sample Time (Start / End): 9:45

Depth to Water (ft): 5.00 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID for SVOCs

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-37-1 & DUPLICATE OW-37-2

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-38 Date: 05/11/2004

Project Name: ~~Sleepy GM~~ AMEC Project No.: 2763600000

Project Location: Sleepy Hollow Weather: SUNNY 80S

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 4.92 Well Depth (ft): 17.22 Casing Dia. (in):

Water Column (ft): 12.30 Water Column (gal.) 2.007

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1320 End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1400						130	PUMP AT 72Hz / CLOUDY
1410						90	PUMP AT 72Hz / SOMEWHAT CLOUDY
1420						95	PUMP AT 72Hz / SLIGHTLY CLOUDY
1430						65	PUMP AT 80Hz / MOSTLY CLEAR
1440						39	PUMP AT 80Hz / MOSTLY CLEAR
1450						25	PUMP AT 80Hz
1500						23	PUMP AT 80Hz / CLEAR

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-38 Date: 05/19/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: Cloudy / RAIN

Remarks: Sampler(s): JPL

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 4.97 Well Depth (ft): 17.02 Casing Dia. (in):

Water Column (ft): 12.05 Water Column (gal.) 1.9665

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft), WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1100 End Time: 1150

mS/m Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1100							If 3 volume method, include Start Time chemistry data only
1105	13.74	8.46	70.0	113	1.92	690	
1110	13.69	8.31	67.7	105	1.23	640	
1120	14.15	8.41	64.7	94	1.16	320	APPEARS CLEAR
1130	14.16	8.60	65.5	83	0.88	120	"
1140	14.68	8.70	65.8	79	0.78	80	"
1145	14.95	8.71	65.5	77	0.71	71	
1150	14.73	8.72	66.1	76	0.72	66	

End Time: 1150 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 1153

Depth to Water (ft): 4.98 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-38-1 FOR VOCs AND SVOCs (STARS) WITH BAILER

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-39 Date: 05/11/2004

Project Name: GM AMEC Project No.: 2763600000

Project Location: SLEEPY HOLLOW, NY Weather: SUNNY

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 6.51 Well Depth (ft): 17.88' Casing Dia. (in):

Water Column (ft): 11.37 Water Column (gal.) 1.855

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / (SP)

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pumping Rate (gpm):

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1020 End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1150						140	PUMP AT 76Hz / REDDISH COLOR
1200						110	PUMP AT 76Hz / CLOUDY
1210						100	PUMP AT 76Hz / CLOUDY
1220						120	PUMP AT 76Hz / CLOUDY
1230						120	PUMP AT 76Hz / CLOUDY
1240						120	PUMP AT 76Hz / CLOUDY

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-39 Date: 5/19/4

Project Name: GM SLEEPY HOLLOW AMEC Project No.: 276360 000

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY

Remarks: _____ Sampler(s): K. SAUNDERS

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 6.49 Well Depth (ft): 17.58 Casing Dia. (in): 2

Water Column (ft): 11.09 Water Column (gal.) 1.81

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.4

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): 0.20

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 10:32 End Time: 11:06

Actual Volume Purged (gal.): ~7 gal

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			s/m				If 3 volume method, include Start Time chemistry data only
10:33	12.35	7.70	92.4	-85	4.89	30.3	
10:40	11.69	7.31	0.105	-104	2.36	60.2	
10:50	11.78	7.45	0.105	-127	2.10	32.6	
10:55	11.78	7.48	0.102	-132	2.08	27.9	
11:00	11.75	7.52	0.100	-137	2.14	25.0	
11:05	11.69	7.54	0.099	-138	2.19	21.6	

End Time: 11:06 Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 11:10

Depth to Water (ft): 6.51 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

SVOCs

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: OW-39-I, VOCs & SVOCs (STARS)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-40 Date: 05/12/2004

Project Name: GM AMEC Project No.: 276360000

Project Location: SLEEPY HOLLOW, NY Weather: SUNNY, HOT

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 7.85 Well Depth (ft): 17.29 Casing Dia. (in):

Water Column (ft): 9.44 Water Column (gal.) 1.5406

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, (SP) = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1050 End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1210						16	CLEAR / PUMP AT 73Hz
1220						25	CLEAR / PUMP AT 73Hz
1230						37	SLIGHTLY TURBID / 73Hz
1240						28	CLEAR / PUMP AT 73Hz
1250						23	CLEAR / PUMP AT 73Hz
1300						32	CLEAR / " "
1310						26	CLEAR

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-40 Date: 5/20/4

Project Name: GM AMEC Project No.: 276360 000

Project Location: SLEEPY HOLLOW NY Weather: PARTLY CLOUDY

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 8.24 Well Depth (ft): 17.11 Casing Dia. (in): 2

Water Column (ft): 8.87 Water Column (gal.) 1.45

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC = ___ gal
CD = Casing Dia. (ft)
WC = Water Column (ft)

Clear Bailer Survey: LNAPL: (Y) / N DNAPL: Y / N

SLIGHT SHEEN ON TOP OF PURGE WATER

Volume of Water to be Purged (3 volume method): 4.3 gal

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 7:59 End Time:

Actual Volume Purged (gal.): 4.0

Time	Temperature (°C) °F	pH (units)	Conductivity ~~(us/cm)~~ S/m	REDOX (Eh-mV)	DO ~~(mg/l)~~ g/L	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
8:00	13.12	7.46	0.125	-135	1.96	15.2	
8:10	12.99	7.46	0.124	-152	0.43	8.5	
8:15	12.93	7.44	0.124	-157	0.38	4.3	
8:20	12.97	7.47	0.124	-161	6.38	4.2	
8:25	12.94	7.51	0.124	-165	0.34	4.1	
8:30	12.95	7.51	0.125	-166	0.32	4.2	

End Time: 8:30 Total Volume Purged (gal.):

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 8:35

Depth to Water (ft): 8.01 Sampling Method: (Bailer) / In-Line VOCs/SVOCs Metals

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-40-1 for Metals (unfiltered, filtered), VOCs & SVOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-41 Date: 05/12/2004

Project Name: GM AMEC Project No.: 276360000

Project Location: SLEEPY HOLLOW NY Weather: OVERCAST, COOL

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 4.65 Well Depth (ft): 15.46 Casing Dia. (in):

Water Column (ft): 10.81 Water Column (gal.) 1.764

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, (SP) = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: ~~If 3 volume method~~: Start Time: 0745 End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0840							If 3 volume method, include Start Time chemistry data only
0900						120	
0910						100	
0920						60	
0930						65	
0940						45	
0950						45	
1000						35	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-41 Date: 5/19/4

Project Name: GM AMEC Project No.: 276360 000

Project Location: SLEEPY HOLLOW NY Weather: CLOUDY

Remarks: Sampler(s): KSAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 4.85 Well Depth (ft): 14.53 Casing Dia. (in): 2

Water Column (ft): 9.68 Water Column (gal.) 1.58

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 4.74

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): 0.16

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 12:32 End Time: 13:06

Actual Volume Purged (gal.): ~5.5

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			s/m		g/L		If 3 volume method, include Start Time chemistry data only
12:34	14.52	7.10	0.139	-147	2.32	143.0	
12:44	14.23	7.16	0.134	-175	1.07	54.7	
12:50	14.17	7.20	0.128	-182	0.75	37.0	
12:55	14.15	7.23	0.123	-187	0.58	32.2	
13:00	14.18	7.26	0.120	-190	1.08	22.6	
13:05	14.24	7.26	0.121	-191	1.03	20.7	LIGHT RAIN

End Time: 13:06 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 13:10

Depth to Water (ft): 4.86 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: VOCs SVOCs-DARK GRAY

COMMENTS: OW-41-I MS/MSD TRIPLE VOLUME
VOCs & SVOCs (STARS)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-42 Date: 05/12/2004

Project Name: GM AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather: Sunny

Remarks: Sampler(s): C. Schrader

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 7.44 Well Depth (ft): 17.89 Casing Dia. (In):

Water Column (ft): Water Column (gal.):

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Lineal Ft.
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 7:55 am End Time: 9:40 am

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
7:55						42.2	
9:20						10.1	
9:25						5.21	
9:30						2.92	
9:35						2.94	
9:40						2.99	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-42 Date: 05/20/2004

Project Name: GENERAL MOTORS AMEC Project No.: 276360000

Project Location: SLEEPY HOLLOW, NY Weather: OVERCAST

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 8.82 Well Depth (ft): 17.72 Casing Dia. (in): 2

Water Column (ft): 8.9 Water Column (gal.) 1.452

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2 (0.167))	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC = Gal.
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 0812 End Time: 0845

Actual Volume Purged (gal.):

Time	Temperature (°C) / °F	pH (units)	Conductivity ~~(us/cm)~~ SM	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
0815	12.87	9.20	0.101	-247	2.59	41	CLEAR.
0820	12.70	9.34	0.099	-255	4.46	18	
0825	12.76	9.46	0.099	-264	2.91	22	
0830	12.83	9.58	0.099	-274	0.00	18	
0835	12.87	9.71	0.099	-284	0.00	24	
0840	13.01	9.78	0.099	-289	0.00	55	
0845	13.09	9.84	0.099	-292	0.00	57	

End Time: 0845 Total Volume Purged (gal.): 3.5

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start) / End): 0850

Depth to Water (ft): 8.52 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-42-1 FOR VOCs AND SVOC (SIMS) AND TAL METALS FILTERED & UNFILTERED → WITH BAILER

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-43 Date: 05/12/2004

Project Name: GM AMEC Project No.: 2763600000

Project Location: SLEEPY HOLLOW, NY Weather: SUNNY, HOT

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 4.93 Well Depth (ft): 17.25 Casing Dia. (in):

Water Column (ft): 12.32 Water Column (gal.) 2.006

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: ~~If 3 volume method:~~ Start Time: 1353 End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1425						140	
1435						80	
1445						90	
1455						40	
1505						50	
1515						34	
1520						45	CLEAR/STARTING TO RAIN!

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: DW-44 Date: 5/18/04

Project Name: GM AMEC Project No.: 276360000

Project Location: Farmington, NY Weather: overcast, 60's

Remarks: Sampler(s): C. Schrader

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 10.60' Well Depth (ft): 25.14' Casing Dia. (in):

Water Column (ft): Water Column (gal.):

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. (in) (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (cp)π x (cr)² x 7.5 gal/ft³ = gal/ft; gal/ft x WC = gal

cp = casing radius (ft); cr = casing radius (ft); WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1045 End Time: 0130 pm

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1240						34.9	
1250						56.4	
0100						16.2	
0110						9.02	
0120						8.94	
0130						8.83	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-43 Date: 05/19/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: Rainy/cloudy

Remarks: Sampler(s): JBL

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 4.97 Well Depth (ft): 16.79 Casing Dia. (in): 2

Water Column (ft): 11.82 Water Column (gal.) 2.269

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): ~7 gal

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. In. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2 (0.167))	(0.1632)
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: ~~0~~ 1245 End Time: 1300

S/M Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO ~~(mg/l)~~	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1225							If 3 volume method, include Start Time chemistry data only
1230	13.97	8.10	0.137	-177	0.40	180	
1235	14.11	8.28	0.108	-168	0.16	76	
1240	14.41	8.31	0.095	-163	0.13	56	
1245	14.44	8.32	0.096	-161	0.07	46	
1250	14.69	8.30	0.100	-161	0.06	43	
1255	14.49	8.32	0.103	-164	0.00	39	
1300	14.54	8.33	0.101	-164	0.00	34	

End Time: 1300 Total Volume Purged (gal.): ~4 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start) / End): 1305

Depth to Water (ft): 4.84 Sampling Method: (Bailer) / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: OW-43-1 FOR VOCs AND SVOC (STARS) WITH BAILER.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-44 Date: 05/21/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: OVERCAST

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 10.91 Well Depth (ft): 25.15 Casing Dia. (in): 2

Water Column (ft): 14.24 Water Column (gal.) 2.324

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.97 gal

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 0806 End Time: _____

Actual Volume Purged (gal.): _____

Time	Temperature (°C) °F	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0806			ms/m				If 3 volume method, include Start Time chemistry data only
0810	13.26	7.86	69.0	-101	0.00	—	Too Turbid / No Recovery
0820	13.41	8.14	57.6	-112	0.00	280	
0830	13.51	8.28	57.3	-129	0.00	51	
0835	13.42	8.35	56.1	-137	0.00	18	CLEAR
0840	13.49	8.44	55.8	-142	0.00	11	
0845	13.58	8.50	56.6	-147	0.00	12	
0850	—	—	—	—	—	—	

End Time: 0845 Total Volume Purged (gal.): 7-1/4 gal

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 0846

Depth to Water (ft): 10.83 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: SAMPLED OW-44-1 FOR VOCs AND SVOC (STARS) WITH BAILER

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 5/18/04

Project Name: GM AMEC Project No.: 276360000

Project Location: Tarrytown, NY Weather: Overcast, 60's

Remarks: Sampler(s): C Schrader

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 11.76' Well Depth (ft): 23.89' Casing Dia. (In):

Water Column (ft): Water Column (gal.)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / (SP)

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Pumping Rate (gpm):

Casing Dia. In. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)² x (CD/2) x 3.14 x WC

CD = Casing Dia. (ft)

WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 8:00am End Time: 11:15

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1030						16.20	
1055						10.68	
1105						18.98	
1115						10.76	

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 05/20/2004

Project Name: GENERAL MOTORS AMEC Project No.: 2162600000

Project Location: SLEEPY HOLLOW, NY Weather: SUNNY, HOT

Remarks: _____ Sampler(s): JAZ

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.89 Well Depth (ft): 23.45 Casing Dia. (in): 2

Water Column (ft): 11.56 Water Column (gal.) 1.886

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)x(CD/2)x3.5xWC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.658 gal

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 1005 End Time: _____

MS/MS Actual Volume Purged (gal.): 11 gallons

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1005							If 3 volume method, include Start Time chemistry data only
1010	12.72	8.19	90.9	-140	0.57	710	GRAY
* 1020	12.74	8.16	89.1	-133	0.11	370	HND TO PERISTALTIC PUMP TUBING
1040	12.77	8.09	85.6	-136	0.00	180	
1045	12.82	8.16	83.4	-140	0.00	180	
1050	12.78	8.15	81.7	-141	0.00	220	
1055	12.82	8.17	80.5	-143	0.00	310	
1100	12.89	8.19	79.1	-144	0.00	340	

End Time: 1100 Total Volume Purged (gal.): _____

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1102

Depth to Water (ft): _____ Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: OW-45-1 FOR VOC AND SVOC (STARS) WITH BAILER. FOR TAL METALS FILTERED AND UNFILTERED AT PUMP.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy, cool

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.48 Well Depth (ft): 23.46 Casing Dia. (in): 2

Water Column (ft): 11.98 Water Column (gal.) 1.96

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.87

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / (SLIGHTLY TURBID) / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: _____ End Time: _____

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 9:48							If 3 volume method, include Start Time chemistry data only
9:50	17.85	10.32	0.446	-112	1.85	490	Flow Rate 0.29 L/min
10:00	17.08	10.22	0.524	-148	0.41	293	
10:10	16.85	10.00	0.580	-149	0.86	242	
10:20	16.82	9.90	0.616	-150	0.81	230	
10:30	16.81	9.76	0.646	-148	0.58	229	
10:40	16.91	9.70	0.651	-147	0.59	257	
10:50	16.85	9.66	0.657	-148	0.49	283	see page 2

End Time: _____ Total Volume Purged (gal.): 21 gal

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 14:00

Depth to Water (ft): 11.45 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

Unfiltered & Filtered (0.45 micron) samples collected

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy, cool

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
11:00	16.82	9.61	0.653	-147	0.41	159	
11:10	16.85	9.54	0.648	-145	0.37	150	
11:20	16.76	9.53	0.650	-147	0.35	236	
11:30	16.91	9.48	0.641	-146	0.33	207	Water level 11.63 ft
11:40	16.83	9.46	0.640	-146	0.42	271	
11:50	16.30	9.44	0.628	-146	0.19	226	
12:00	17.02	9.42	0.618	-146	0.05	229	
12:10	17.03	9.41	0.607	-145	0.03	222	
12:20	17.11	9.39	0.603	-145	0.00	288	
12:30	17.14	9.36	0.596	-144	0.07	303	
12:40	17.35	9.31	0.585	-142	0.49	181	
12:50	17.30	9.24	0.592	-141	0.00	190	
13:00	17.40	9.21	0.594	-142	0.03	327	
13:10	17.41	9.18	0.591	-141	0.48	482	
13:20	17.33	9.16	0.601	-141	0.12	994	
13:30	17.28	9.16	0.596	-141	0.59	883	
13:34	18.72	8.82	0.669	-115	1.92	192	Water level 11.68 ft
13:40	18.07	8.97	0.664	-123	0.88	176	Restart pump
13:50	17.93	9.03	0.662	-128	1.33	180	Flow Rate 0.25 L/min
14:00	17.87	9.03	0.637	-129	1.53	193	

COMMENTS:

Volume purged
4.5 gal
4.5 gal @ 11:40
4.5 gal @ 12:30
4.5 gal @ 13:30
3 gal @ 14:00
21 gal total

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 7/20/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny, warm

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.51 Well Depth (ft): 23.36 Casing Dia. (in): 2

Water Column (ft): 11.85 Water Column (gal.) 1.9339

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.87

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 8:30 End Time: 12:20

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 8:30							If 3 volume method, include Start Time chemistry data only
10:10						390	Cloudy gray w/fines
10:15						no reading	Too turbid for reading
10:20						380	Cloudy brown w/fines
10:25						no reading	Grayish color/turbid
10:30						340	Cloudy brown
10:35						no reading	Grayish/turbid
10:40						350	Cloudy brown/turbid

End Time: 12:20 Total Volume Purged (gal.): _____

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): 11.49 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 7/20/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny, warm

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
10:45						no reading	No reading, water is too turbid
10:50						300	Cloudy brown
10:55						no reading	No reading/too turbid
11:00						320	Last time surging/cloudy brown
11:05						no reading	Turbidity too high for reading
11:10						330	Water is cloudy/brownish
11:15						160	slightly cloudy
11:20						80	slightly cloudy
11:25						50	slightly clear/a few fines
11:30						38	clear to bare eye
11:35						25	"
11:40						19	"
11:45						17	"
11:50						14	"
11:55							
12:00						15	"
12:05						10	"
12:10						9	"
12:15						8	"
12:20						8	End develompent OW-45

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy/breezey

Remarks: Well resampling Sampler(s): Saunders

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 10.96 Well Depth (ft): 23.15 Casing Dia. (in): 2

Water Column (ft): 12.19 Water Column (gal.) 1.99

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.97

Purging Method: HB (PP) CP / SP Pumping Rate (gpm): 0.14

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID (TURBID) Black fines

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 12:05 End Time: 13:20

Actual Volume Purged (gal.): 10.5

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
12:10	18.31	7.33	51.4	-113	1.75	220	
12:20	18.93	7.45	48.7	-150	0.10	60.1	
12:30	17.93	7.41	56.7	-153	0.06	49.5	
12:40	17.92	7.41	57.6	-156	0.02	22.3	5 gallons
12:50	17.91	7.37	60.1	-156	0.04	27.7	
13:00	17.90	7.34	59.3	-156	0.01	60.6/6.6	check turbidity w/other meter
13:10	17.80	7.33	59.5	-156	0.00	53.1/4.6	4.5 gallons

End Time: 13:20 Total Volume Purged (gal.): 10.5

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 13:20

Depth to Water (ft): 10.96 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:
Metals, filtered (45 micron) & unfiltered

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-45 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy, breezy

Remarks: Well resampling Sampler(s): Saunders

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
13:20	17.79	7.34	59.1	-157	0.00	510/3.9	1 gal

COMMENTS:

AMEC Earth & Environmental, 285 Davidson Avenue, Suite 100, Somerset, NJ 08873 (732) 302-9500 / (732) 302-9504 (fax)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-46 Date: 5/13/04

Project Name: GM AMEC Project No.: 276360 000

Project Location: Sleepy Hollow, NY Weather:

Remarks: Sampler(s): C. Schroder

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 11.8' Well Depth (ft): 24.18' Casing Dia. (in):

Water Column (ft): Water Column (gal.):

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. (in)	Gallons Water per Linear ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation:
$(CD/2)^2 \times (CD/2) \times 7.5 \times 0.8$
CD = Casing Dia. (in)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 0800 End Time: 0935

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
0905						62.5	
0910						74.2	
0915						34.0	
0920						24.2	
0925						18.0	
0930						16.7	
0935						17.3	

End Time: 0935 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-46 Date: 5/20/4

Project Name: GM SLEEPY HOLLOW AMEC Project No.: 276 360 000

Project Location: NY Weather: PARTLY CLOUDY

Remarks: Sampler(s): KSAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

(FROM TOP OF CONCRETE SLAB)

Depth to Water (ft): 11.91 Well Depth (ft): 24.12 Casing Dia. (in): 2

Water Column (ft): 12.21 Water Column (gal.) 1.99

Casing Dia. in (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 x WC; CD = Casing Dia. (ft); WC = Water Column (ft)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): ~~5.97~~

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

WELL PURGE DATA: If 3 volume method: Start Time: 9:28 End Time:

Actual Volume Purged (gal.): 6.5

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			~~us~~/cm		~~mg~~/L		If 3 volume method, include Start Time chemistry data only
9:30	13.92	7.71	41.9	-94	2.16	15.0	
9:40	13.37	7.53	45.9	-129	3.31	20.1	
9:50	14.19	7.41	47.7	-140	1.42	13.9	
10:00	13.30	7.38	48.3	-143	1.32	13.6	
10:05	13.31	7.39	48.7	-147	1.17	12.5	
10:10	13.35	7.42	48.5	-152	0.93	13.7	
10:15	13.29	7.47	48.7	-156	0.86	12.6	

End Time: 10:16 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 10:20

Depth to Water (ft): 11.87 Sampling Method: Bailer / In-Line (SVOCs/VOCs METALS)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: VOCs, Metals SVOCs

COMMENTS:

OW-46-1 AND DUPLICATE OW-46-2 METALS (Filtered & unfiltered) SVOCs, VOCs

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 05/17/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: Sunny, Hot

Remarks: Sampler(s): JDC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 11.69 Well Depth (ft): 24.84 Casing Dia. (in):

Water Column (ft): 13.15 Water Column (gal.) 2.146

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1125							If 3 volume method, include Start Time chemistry data only
1220						140	PUMP AT 1.0 HZ LT. BROWN WATER
1225						38	PUMP AT 1.0 HZ WATER IS CLOUDY
1240						14	RELATIVELY CLEAR.
1245						8.1	CLEAR.
1250						5.3	CLEAR
1255						3.9	CLEAR
1300						2.9	CLEAR

End Time: Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 05/20/2004

Project Name: GENERAL MOTORS AMEC Project No.: 2763600000

Project Location: SUNNY HOLLOW, NY Weather: SUNNY/BREEZY

Remarks: _____ Sampler(s): JAZ

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.87 Well Depth (ft): 24.8 Casing Dia. (in): 2

Water Column (ft): 12.93 Water Column (gal.) 2.110

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.33 gal

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. In. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2)² x (CD/2)² x 3.1 = x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1143 End Time: _____

ms/m Actual Volume Purged (gal.): _____

Time	Temperature (°C) °F	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1150	14.47	8.97	86.9	-171	0.28	—	TURBIDITY ABOVE LIMIT
1200	14.32	8.98	75.9	-187	0.00	180	SIGNIFICANTLY LESS TURBID
1205	14.38	9.09	77.1	-203	0.00	82	
1210	14.55	9.18	73.0	-210	0.00	56	
1215	14.88	9.25	72.2	-220	0.00	39	
1220	14.73	9.33	71.2	-225	0.00	28	
1225	14.87	9.43	70.9	-233	0.00	25	

End Time: 1235 Total Volume Purged (gal.): 6.5

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 1240

Depth to Water (ft): _____ Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: OW-47-1 FOR VOC & SVOC (STARS) WITH BAILER
FOR METALS FILTERED & UNFILTERED IN LINE

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy, cool

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 11.42 Well Depth (ft): 24.71 Casing Dia. (in): 2

Water Column (ft): 13.29 Water Column (gal.) 2.17

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.51

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 9:32 End Time: 12:45

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (mS/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 9:32							If 3 volume method, include Start Time chemistry data only
9:35	15.65	9.27	2.08	-125	2.25	585	Cloudy, slightly turbid
9:45	17.41	9.48	1.98	-155	2.01	477	
9:55	17.29	9.59	1.90	-164	1.9	383	
10:05	17.26	9.69	1.80	-169	1.77	276	
10:15	16.02	10.12	1.57	-182	1.59	157	
10:25	16.00	10.26	1.35	-190	1.49	163	
10:35	16.17	10.28	1.27	-191	1.45	169	see page 2

End Time: 12:45 Total Volume Purged (gal.):

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 12:45

Depth to Water (ft): 11.44 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

12:45 Sample OW-47 for filtered and unfiltered metals (in-line)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy, cool

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (mS/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
10:45	16.29	10.32	1.24	-194	1.14	157	
10:55	16.26	10.36	1.21	-197	1.36	156	
11:05	16.26	10.30	1.20	-199	1.35	162	
11:15	17.05	10.35	1.19	-198	1.29	141	
11:25	19.42	10.23	1.18	-195	1.16	131	
11:35	15.47	10.50	1.16	-202	1.34	75.4	
11:45	15.55	10.63	1.12	-211	1.30	58.3	Depth to water 11.41 feet
11:55	15.66	10.66	1.10	-215	1.26	58.7	
12:05	15.66	10.62	1.13	-215	1.24	61.4	
12:15	15.66	10.66	1.13	-216	1.23	57.9	
12:25	15.69	10.66	1.14	-215	1.20	59.1	
12:35	15.71	10.68	1.14	-216	1.21	57.9	4.5 gal
12:45	15.72	10.68	1.13	-217	1.21	59.5	
	Sample						

COMMENTS:

AMEC Earth & Environmental, 285 Davidson Avenue, Suite 100, Somerset, NJ 08873 (732) 302-9500 / (732) 302-9504 (fax)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 7/26/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/slight breeze

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 10.76 Well Depth (ft): 24.66 Casing Dia. (in): 2

Water Column (ft): 13.9 Water Column (gal.) 2.268

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.87

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 8:14 End Time: 11:05

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 8:14							If 3 volume method, include Start Time chemistry data only
9:30						750	Surged pump. Pump at 92 Hz
9:35						450	Particle build up in tubing
9:40						100	Surged pump. Pump at 92 Hz
9:45						500	Water is cloudy
9:50						75	Surged pump. Pump at 92 Hz
9:55						650	Particles in tubing
10:00						120	Water slightly cloudy

End Time: 11:05 Total Volume Purged (gal.): _____

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): 10.74 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 7/26/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/Slight breeze

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
10:05						55	Shook tubing to remove partilces/ water is slightly clear
10:10						29	Water appears clear
10:15						20	Water appears clear
10:20						14	Water appears clear
10:25						10	Same
10:30						7.8	Appears clear
10:35						6.2	Appears clear
10:40						5.8	Appears clear
10:45						5.1	Appears clear
10:50						4.6	Appears clear. Pump at 92 Hz
10:55						4.3	Appears clear
11:00						4.1	Appears clear. Pump at 92 Hz
11:05							
11:10							

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy/breezy/70 °F

Remarks: Well resampling Sampler(s): Cuppernell

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 10.9 Well Depth (ft): 24.39 Casing Dia. (in): 2

Water Column (ft): 13.49 Water Column (gal.) 2.2016

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.605

Purging Method: HB (PP) CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 12:05 End Time: 13:40

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
12:05	17.83	7.73	96.1	-158	2.33	710	
12:10	16.89	7.55	96.3	-180	0.49	520	
12:15	17.06	7.51	91.0	-182	0.43	130	
12:20	17.25	7.56	87.0	-190	0.34	100	
12:25	17.33	7.66	80.4	-201	0.26	79	
12:30	17.09	7.72	78.1	-207	0.23	75	
12:35	17.52	7.79	76.3	-213	0.22	65	

End Time: 13:40 Total Volume Purged (gal.): 8

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 13:45

Depth to Water (ft): 10.93 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:
Sampled OW-47 for metals in-line (filtered and unfiltered)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-47 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy/breezy/70 °F

Remarks: Well resampling Sampler(s): Cuppernell

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
12:40	17.44	7.86	74.8	-220	0.17	65	3 gallons
12:45	17.37	7.91	73.3	-227	0.13	64	appears clear
12:50	17.35	7.92	72.9	-229	0.11	62	appears clear
12:55	17.19	7.95	72.4	-232	0.09	64	appears clear
13:00	17.22	7.97	72.2	-236	0.06	61	appears clear
13:05	17.20	7.99	72.3	-239	0.05	64	appears clear
13:10	17.17	8.02	71.9	-243	0.04	64	3.5 gallons
13:15	17.24	8.02	71.6	-244	0.03	65	water appears clear
13:20	17.29	8.03	71.0	-247	0.02	64/5.8	clear
13:25	17.43	8.03	71.5	-246	0.02	68/6.9	clear
13:30	17.62	8.04	71.6	-248	0.02	69/7.3	clear
13:35	17.57	8.04	71.2	-248	0.02	71/5.5	clear
13:40	17.31	8.04	71.0	-248	0.01	69/6.1	clear

COMMENTS:

AMEC Earth & Environmental, 285 Davidson Avenue, Suite 100, Somerset, NJ 08873 (732) 302-9500 / (732) 302-9504 (fax)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-48 Date: 05/11/2004

Project Name: GM AMEC Project No.: 2763600000

Project Location: Sleepy Hollow, NY Weather: SUNNY

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 11.79 (TOP OF SLAB) Well Depth (ft): 23.80 (TOP OF SLAB) Casing Dia. (in):

Water Column (ft): 12.01 Water Column (gal.) 1.960

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, (SP) = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 0830							If 3 volume method, include Start Time chemistry data only
1005						27	
1010						23	
1015						21	
1020						20	
1025						16	
1030						18	
1035						16	END DEVELOPMENT

End Time: 1035 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: WELL WASN'T ABLE TO RECHARGE AT A RATE WHICH ALLOWED CONTINUOUS PUMPING AT A STEADY RATE. PUMPED AT MINIMUM FLOWRATE TO PREVENT PUMPING WELL DRY.

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-48 Date: 5/20/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny, Partly cloudy

Remarks: Sampler(s): Saunders

WELL PURGING: PID Head Space Reading (ppm):

* From top of slab

Depth to Water (ft): 11.89 * Well Depth (ft): 22.84* Casing Dia. (in): 2

Water Column (ft): 10.95 Water Column (gal.) 1.79

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.36

Purging Method: HB (PP) CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: (CLEAR) SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 11:26 End Time:

Actual Volume Purged (gal.): 6

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
11:27	13.96	7.98	95.4	-150	1.22	38.5	
11:40	14.14	7.72	87.1	-144	1.72	120.0	
11:45	14.67	7.79	87.9	-155	1.37	64.0	
12:00	13.60	7.82	81.0	-159	1.21	94.6	
12:05	15.20	8.04	88.6	-182	1.08	63.8	
12:10	14.74	8.03	84.5	-180	1.05	47.0	

End Time: 12:26 Total Volume Purged (gal.):

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 12:30

Depth to Water (ft): 13.43 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR / SLIGHTLY) TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

OW-48-1 MS/MSD triple volume for metals (in-line; filtered & unfiltered) and VOCs & SVOCs (bailer)

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-48 Date: 5/20/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny, partly cloudy

Remarks: Sampler(s): Saunders

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
12:15	14.23	8.01	81.4	-170	1.04	39.7	
12:20	14.36	8.01	80.3	-171	1.01	36.5	
12:25	12.22	8.00	80.8	-170	0.97	36.5	

COMMENTS:

AMEC Earth & Environmental, 285 Davidson Avenue, Suite 100, Somerset, NJ 08873 (732) 302-9500 / (732) 302-9504 (fax)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-49 Date: 5/17/04

Project Name: GM AMEC Project No.: 276360000

Project Location: Sleepy Hollow, NY Weather:

Remarks: Sampler(s): C. Schrader

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 11.9' Well Depth (ft): 23.4' Casing Dia. (in):

Water Column (ft): Water Column (gal.)

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP (SP) Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. (in.)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation:
(pi/2) x (D/2)^2 x 2.3 x WC
D = Casing Diameter (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1130 End Time: 1315

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
1240						87.2	
1250						29.4	
1300						12.3	
1305						9.7	
1310						8.4	
1315						8.2	

End Time: 1315 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-49 Date: 03/20/2004

Project Name: GENERAL MOTORS AMEC Project No.: 2763600000

Project Location: SLEEPY HOLLOW, NY Weather: SUNNY/BREEZY

Remarks: _____ Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 12.02 Well Depth (ft): 26.04 Casing Dia. (in): 2

Water Column (ft): 14.02 Water Column (gal.) 2.288

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.864 gallons

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
~~2 (0.167)~~	~~0.1632~~
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.6 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1320 End Time: 1425

Actual Volume Purged (gal.):

Time	Temperature (°C) °F	pH (units)	Conductivity ~~(us/cm)~~ S/M	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1320							If 3 volume method, include Start Time chemistry data only
1330	17.51	7.69	0.729	-107	2.09	920	
1340	16.90	7.71	0.714	-110	0.65	750	
1350	16.95	7.72	0.740	-112	1.14	600	
1400	15.86	7.74	0.707	-112	0.99	300	APPEARS CLEAR IN BUCKET
1410	15.30	7.75	0.640	-112	0.62	290	"
1415	15.45	7.76	0.591	-113	0.53	250	"
1420	15.53	7.77	0.595	-114	0.31	420	

End Time: 1425 Total Volume Purged (gal.): 7.5

Purged Dry: Y / N If Purged Dry, Recovery Rate (ml/min): _____

SAMPLING DATA: Sample Time (Start / End): 1427

Depth to Water (ft): 12.05 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: SAMPLED OW-49-1 FOR VOCs/SVOC (STARS) WITH BAILER & FOR BTEX METALS (FILTERED/UNFILTERED) W/ IN-LINE

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-49 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/Humid

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.56 Well Depth (ft): 25.91 Casing Dia. (in): 2

Water Column (ft): 14.41 Water Column (gal.) 2.35

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 7.06

Purging Method: HB / PP / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 13:09 End Time: 15:45

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (mS/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 13:09							If 3 volume method, include Start Time chemistry data only
13:10	16.59	9.23	7.04	-99	3.28	374	
13:15	15.93	9.27	7.08	-109	1.48	348	
13:25	19028	9.20	7.09	-120	1.77	122	Flow Rate 143 ml/min
13:35	17.77	9.19	7.01	-119	2.56	94.4	
13:45	17.06	9.22	6.74	-120	2.46	90.8	
13:55	16.88	9.24	5.94	-122	2.28	90.8	
14:05	16.78	9.27	5.61	-124	2.04	87.3	4.5 gal

End Time: 15:45 Total Volume Purged (gal.): 14.5 gal

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 15:45

Depth to Water (ft): 11.67 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

Sampled OW-49 for filtered & unfiltered metals in-line

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-49 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/humid

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (mS/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
14:15	16.78	9.27	5.49	-124	1.96	79.7	
14:25	16.53	9.28	5.41	-124	1.88	77.0	
14:35	16.56	9.28	5.43	-125	1.82	74.7	
14:45	16.68	9.29	5.26	-126	1.73	74.1	4 gal
14:55	16.82	9.30	5.18	-127	1.68	74.9	
15:05	16.75	9.31	5.20	-127	1.66	71.6	
15:15							
15:25	16.74	9.32	5.22	-128	1.59	70.1	4 gal
15:35	16.71	9.31	5.29	-128	1.58	71.0	
15:45	16.77	9.30	5.44	-129	1.57	68.2	2 gal sampled
15:55							
16:05							
16:15							

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-49 Date: 7/26/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/Hot/Breeze

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.04 Well Depth (ft): 23.01 Casing Dia. (in): 2

Water Column (ft): 16.97 Water Column (gal.) 2.705

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.87

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 11:33 End Time: 14:30

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 11:33							If 3 volume method, include Start Time chemistry data only
13:05						300	Cloudy-brownish
13:10						150	Brownish. Surged pump
13:15						320	Cloudy-brown
13:20						120	Cloudy, brown/Surged
13:25						500	Surged pump. Pump at 92 Hz
13:30						130	Appears slightly cloudy
13:35						50	slightly cloudy

End Time: 14:30 Total Volume Purged (gal.): _____

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): 11.19 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-49 Date: 7/26/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/Hot/Breeze

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
13:40						37	Appears slightly clear; some particles
13:45						26	Appears clear
13:50						17	Appears clear
13:55						80	Slightly cloudy
14:00						28	Mostly clear
14:05						15	Clear
14:10						12	Clear
14:15						9.4	Clear
14:20						7	Clear
14:25							
14:30							

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-49 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy, cool

Remarks: Sampler(s): Saunders

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 11.03 Well Depth (ft): 25.83 Casing Dia. (in): 2

Water Column (ft): 14.8 Water Column (gal.) 2.4

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 7.2

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB (PP) CP / SP Pumping Rate (gpm): 0.089

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID) Black fines

WELL PURGE DATA: If 3 volume method: Start Time: 9:43 End Time: 11:30

Actual Volume Purged (gal.): 9.5

Time	Temperature (°C)	pH (units)	Conductivity (S/m)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
9:45	17.06	6.99	0.625	-99	2.94		
9:55	17.91	6.90	0.617	-112	0.52		
10:05	17.78	6.91	0.652	-120	0.25	664/240	
10:15	17.52	6.93	0.655	-125	0.18	251/75	
10:25	17.47	6.92	0.670	-126	0.13	155/39	
10:35	17.36	6.92	0.661	-128	0.22	191/26	
10:45	17.41	6.92	0.670	-128	0.29	200/16	

End Time: 11:30 Total Volume Purged (gal.): 9.5

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 11:30

Depth to Water (ft): 11:10 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:
Metals, filtered & unfiltered

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-49 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy, cool

Remarks: Sampler(s): Saunders

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (S/m)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
10:55	17.35	6.93	0.655	-129	0.34	242/13	
11:05	17.50	6.93	0.662	-129	0.36	195/93	
11:15	17.40	6.93	0.656	-130	0.36	220/6.9	
11:25	17.35	6.94	0.651	-130	0.36	239/5.3	
11:30	17.43	6.94	0.654	-131	0.37	211/5.2	

COMMENTS:

AMEC Earth & Environmental, 285 Davidson Avenue, Suite 100, Somerset, NJ 08873 (732) 302-9500 / (732) 302-9504 (fax)

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-50 Date: 5/17/04

Project Name: GM AMEC Project No.: 276360000

Project Location: Tarrytown, NY Weather: Sunny, 70's

Remarks: Sampler(s): C. Schmola

WELL PURGING:

PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.82 Well Depth (ft): 23.69 Casing Dia. (in):

Water Column (ft): _____ Water Column (gal.) _____

Casing Dia. (in)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Baller Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): _____

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

If Alternate Calculation
(CD(2) x (CD(2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 7:50am End Time: 11:05am

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time							If 3 volume method, include Start Time chemistry data only
08:55						47.7	
10 80						41.1	
10 05						33.6	
10 15						31.5	
10 25						30.2	
10 39						23.5	
10 45						23.4	

End Time: _____ Total Volume Purged (gal.): _____

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): Sampling Method: Baller / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS: Filled drum

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-50 Date: 5/20/4

Project Name: GM AMEC Project No.: 276360 000

Project Location: SLEEPY HOLLOW NY Weather: SUNNY, WINDY

Remarks: Sampler(s): K. SAUNDERS

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 12.00 (FROM TOP OF SLAB) Well Depth (ft): 22.85 Casing Dia. (in): 2

Water Column (ft): 10.85 Water Column (gal.) 1.77

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.3

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 3.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: ~~13:00~~ 15:00 on 5/20/4 End Time:

Actual Volume Purged (gal.): 5.5

Time	Temperature (°C) °F	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 15:00			S/m		9/L		If 3 volume method, include Start Time chemistry data only
~~13:00~~	14.11	7.92	0.148	-109	12.46	27.2	
~~13:10~~	14.39	7.87	86.5	-137	6.82	17.9	
~~13:15~~	14.38	7.84	85.0	-136	6.10	17.2	
15:20	14.38	7.85	87.0	-139	5.23	17.3	

End Time: 15:20 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 15:25

Depth to Water (ft): 12.07 Sampling Method: ~~Bailer~~ / In-Line SVOCs, NOCs Metals

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

OW-50-1 for VOCs, SVOCs, Metals

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-51 Date: 05/17/2004

Project Name: General Motors AMEC Project No.: 27636000

Project Location: Sleepy Hollow, NY Weather: Sunny, Hot

Remarks: Sampler(s): JAC

WELL PURGING:

PID Head Space Reading (ppm):

Depth to Water (ft): 11.83 Well Depth (ft): 24.81 Casing Dia. (in):

Water Column (ft): 12.98 Water Column (gal.) 2.1185

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
(2) (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method):

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, (SP) = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 1420							If 3 volume method, include Start Time chemistry data only
1450						700	CLOUDY BROWN
1455						80	CLOUDY
1500						45	
1505						24	
1510						19	MOSTLY CLEAR
1515						13	CLEAR
1520						13	CLEAR

End Time: 1520 Total Volume Purged (gal.):

Purged Dry: Y / N If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End):

Depth to Water (ft): Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

amec

Well ID: OW-51 Date: 05/20/2004

Project Name: General Motors AMEC Project No.: 2763600000

Project Location: Sleepy Hollow NY Weather: Sunny/Breezy

Remarks: Sampler(s): JAC

WELL PURGING: PID Head Space Reading (ppm):

Depth to Water (ft): 11.03 Well Depth (ft): 24.68 Casing Dia. (in): 2

Water Column (ft): 13.65 Water Column (gal.) 2.227

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.681

Purging Method: HB / PP / CP / SP Pumping Rate (gpm):

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Casing Dia. in. (ft)	Gallons Water per Linear Ft.
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation: (CD/2) x (CD/2) x 23.5 = WC; CD = Casing Dia. (ft); WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 1452 End Time:

Actual Volume Purged (gal.):

Time	Temperature (°C / °F)	pH (units)	Conductivity ~~(us/cm)~~	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time			S/M				If 3 volume method, include Start Time chemistry data only
1455	14.62	8.49	0.670	-77	0.02	830	TURBID
1500	14.58	8.40	0.661	-85	0.00	640	
1506	15.17	8.57	0.431	-92	0.00	97	
1511	15.10	8.69	0.380	-101	0.00	69	
1515	15.07	8.76	0.350	-108	0.00	59	
1521	15.19	8.80	0.322	-113	0.00	49	
1526	15.17	8.81	0.316	-115	0.00	44	

End Time: 1526 Total Volume Purged (gal.): 7gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): 1528

Depth to Water (ft): 12.01 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm:

COMMENTS: OW-51-1 For VOCs/SVOCs (STARS) WITH BAILERS
For Metals (Filtered/unfiltered) in-line

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-51 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Humid/Breeze

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.51 Well Depth (ft): 24.56 *Casing Dia. (in)*: 2

Water Column (ft): 13.05 Water Column (gal.) 2.13

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 6.39

Purging Method: HB / (PP) / CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 14:24 End Time: 16:30

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 14:24	22.45	7.73	5.14	7	10.27	665	If 3 volume method, include Start Time chemistry data only
14:30	18.09	8.05	5.97	-22	2.64	901	Flow Rate 305 mL/min
14:40	19.71	7.62	2.12	13	5.24	462	
14:50	19.98	7.64	1.53	16	5.09	204	
15:00	20.22	7.88	1.17	-2	4.43	157	
15:10	20.38	8.00	1.05	-13	3.96	152	
15:20	20.34	8.17	0.94	-27	3.37	152	4.5 gal purged
15:30	20.43	8.24	0.847	-35	2.74	147	

End Time: 16:30 Total Volume Purged (gal.): 11 gal

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 16:30

Depth to Water (ft): 11.52 Sampling Method: Bailer / (In-Line)

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: (CLEAR) / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:
Unfiltered & filtered samples

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-51 Date: 7/14/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Humid/Breeze

Remarks: Sampler(s): Cuppernell/Saunders

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
15:40	20.09	8.30	0.816	-41	2.71	149.0	
15:50	20.07	8.36	0.785	-46	2.52	147.0	
16:00	20.12	8.38	0.751	-47	2.46	147.0	
16:10	20.12	8.39	0.742	-49	2.38	146.0	4.5 gal
16:15	20.11	8.42	0.749	-51	2.43	146.0	
16:20	20.09	8.42	0.732	-51	2.35	146.0	
16:25	20.09	8.42	0.738	-51	2.35	146.0	2 gal
16:30	Sample						

COMMENTS:

AMEC Earth & Environmental, 285 Davidson Avenue, Suite 100, Somerset, NJ 08873 (732) 302-9500 / (732) 302-9504 (fax)

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-51 Date: 7/20/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/hot

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 11.53 Well Depth (ft): 24.54 Casing Dia. (in): 2

Water Column (ft): 13.01 Water Column (gal.) 1.1232

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.87

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

Purging Method: HB / PP / CP / (SP) Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

WELL PURGE DATA: If 3 volume method: Start Time: 13:02 End Time: 15:30

Actual Volume Purged (gal.):

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 13:02							If 3 volume method, include Start Time chemistry data only
14:15						700	Cloudy brownish
14:20						340	Cloudy brownish
14:25						650	"
14:30						120	" Surged
14:35						550	
14:40						95	Surged pump
14:45						950	

End Time: 15:30 Total Volume Purged (gal.): _____

Purged Dry: Y / (N) If Purged Dry, Recovery Rate (ft/min):

SAMPLING DATA: Sample Time (Start / End): _____

Depth to Water (ft): 11.58 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-51 Date: 7/20/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Sunny/Hot

Remarks: Well redevelopment Sampler(s): Cuppernell

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (S/cm)	REDOX (Eh-mV)	DO (g/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
14:50						370	Light murky brown color pump @102 Hz
14:55						55	Water appears clear
15:00						17	Water appears clear
15:05						15	Clear
15:10						14	Clear
15:15						11	Clear
15:20						10	Clear
15:25						9	Clear
15:30						9	Clear

COMMENTS:

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-51 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy/Breezy/Cool

Remarks: Well Re-sampling Sampler(s): Cuppernell

WELL PURGING: PID Head Space Reading (ppm): _____

Depth to Water (ft): 10.92 Well Depth (ft): 23.23 Casing Dia. (in): 2

Water Column (ft): 12.21 Water Column (gal.) 1.9926

Clear Bailer Survey: LNAPL: Y / N DNAPL: Y / N

Volume of Water to be Purged (3 volume method): 5.998

Purging Method: HB (PP) CP / SP Pumping Rate (gpm): _____

(HB=Hand Bailed, PP = Peristaltic Pump, CP = Centrifugal Pump, SP = Submersible Pump)

Pre-Purge Visual Appearance: CLEAR / SLIGHTLY TURBID / (TURBID)

Casing Dia. in. (ft)	Gallons Water per Linear Ft
1 (0.083)	0.0408
2 (0.167)	0.1632
4 (0.333)	0.6528
6 (0.500)	1.4688

Alternate Calculation
(CD/2) x (CD/2) x 23.5 x WC
CD = Casing Dia. (ft)
WC = Water Column (ft)

WELL PURGE DATA: If 3 volume method: Start Time: 9:40 End Time: _____

Actual Volume Purged (gal.): _____

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
Start Time 9:40							If 3 volume method, include Start Time chemistry data only
9:40	20.63	8.08	46.6	66	8.11	360	
9:45	19.49	7.72	0.107	37	1.46	480	Cond. In S/m
9:50	20.34	7.70	82.8	13	1.74	220	cond. In mS/m
9:55	20.74	7.75	61.5	19	2.59	94	
10:00	20.83	7.79	51.0	20	2.93	51	slightly cloudy
10:05	20.89	7.80	47.3	19	2.91	32	
10:10	20.93	7.81	45.0	16	2.77	25	

End Time: 11:15 Total Volume Purged (gal.): 9.5

Purged Dry: Y (N) If Purged Dry, Recovery Rate (ft/min): _____

SAMPLING DATA: Sample Time (Start / End): 11:20

Depth to Water (ft): 10.94 Sampling Method: Bailer / In-Line

If 3 volume method, indicate sample chemistry data	Temperature (°C / °F)	pH (units)	Conductivity (us/cm)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)

Sample Visual Appearance: CLEAR / SLIGHTLY TURBID / TURBID

Ferrous Iron (Fe^{2+}), ppm: _____

COMMENTS:

Sampled filtered and unfitered in line for metals - Duplicate

GROUNDWATER PURGING AND SAMPLING LOG

Well ID: OW-51 Date: 7/27/2004

Project Name: General Motors AMEC Project No.: 276360000

Project Location: Sleepy Hollow NY Weather: Cloudy/Breezy/Cool

Remarks: Well re-sampling Sampler(s): Cuppernell

WELL PURGE DATA:

Time	Temperature (°C)	pH (units)	Conductivity (mS/m)	REDOX (Eh-mV)	DO (mg/l)	Turbidity (NTU)	COMMENTS (color, odor, change in pump rate, etc.)
10:15	20.95	7.80	45.0	11	2.46	22	Mostly clear
10:20	20.96	4.79	45.3	4	2.20	18	
10:25	20.87	7.79	45.1	-3	2.09	16	
10:30	20.97	7.78	45.4	-9	1.92	15	
10:35							5 gal
10:40	20.92	7.72	46.0	-16	1.76	19	
10:45	21.11	7.97	42.3	-33	1.70	18	
10:50	21.13	7.99	42.1	-39	1.68	12	
10:55	21.13	7.97	42.6	-45	1.53	11	
11:00	21.19	7.97	43.0	-49	1.50	10	Clear
11:05	21.16	7.96	43.8	-53	1.53	10	
11:10	21.14	7.95	44.5	-54	1.53	10	4 gal
11:15	21.19	7.95	45.5	-59	1.49	10	
Sampled at 11:20 duplicates							

COMMENTS:

AMEC Earth & Environmental, 285 Davidson Avenue, Suite 100, Somerset, NJ 08873 (732) 302-9500 / (732) 302-9504 (fax)

ARCADIS

Appendix H

Assessment of Ecological Resources for Lighthouse Landing Redevelopment Project, Village of Sleepy Hollow, Westchester County, New York

ASSESSMENT OF ECOLOGICAL RESOURCES
FOR
LIGHTHOUSE LANDING
REDEVELOPMENT PROJECT
VILLAGE OF SLEEPY HOLLOW
WESTCHESTER COUNTY, NEW YORK

Prepared for:

Roseland/Sleepy Hollow, LLC
233 Canoe Brook Road
Short Hills, New Jersey 07078

Prepared by:

EcolSciences, Inc.
75 Fleetwood Drive, Suite 250
Rockaway, New Jersey

April 8, 2004

Revised
January 5, 2005

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ABSTRACT

Wetland, terrestrial, and aquatic studies were performed of the former General Motors Corporation (GM) Assembly Plant site located along the Hudson River within the Village of Sleepy Hollow. The West Parcel and South Parcel are currently being proposed for redevelopment with a mix of commercial, residential, and park uses that will collectively be known as Lighthouse Landing at Sleepy Hollow and the East Parcel will be redeveloped with public works and park uses. This project is subject to the requirements of the New York State Environmental Quality Review Act (SEQRA) and a Draft Environmental Impact Statement (DEIS) is being prepared to address these requirements.

Available data regarding the ecological resources of the site and surrounding area was compiled through a review of existing information, including reports and maps prepared by local, state, and federal agencies. Field studies were conducted by as necessary to inventory ecological resources on the site and adjacent parkland. Jurisdictional wetland boundaries on the East Parcel near the Metro-North tracks were flagged in the field and surveyed and are shown on the site plans for the project; the wetlands on the site are former drainage ditches. The project site and adjacent parklands include ten vegetative communities based on the ecological community classification system set forth by the NHP (2002). These include Tidal River, Estuarine Riprap/Artificial Shore, Brackish Tidal Marsh, Ditch/Artificial Intermittent Stream, Red Maple-Hardwood Swamp, Oak-Tulip Tree Forest, Mowed Lawn with Trees, Mowed Lawn, Railroad, and Urban Vacant Land.

Implementation of the proposed development should not adversely affect the limited ecological resources of the project site. The vast majority of the project site has been identified as Urban Vacant Lot. Due to the presence of extensive pavements and concrete pads remaining from the demolished plant facilities, the existing plant community is restricted to scattered plants and small strips of vegetation composed of weedy or non-native species. The ecological value of this plant community and its associated wildlife habitat is extremely low and its loss would not be significant. Redevelopment of the site would increase the value of portions of the site through the establishment of new native vegetation. Although wetlands will be filled and replaced by culverts as part of the conversion of part of the East Parcel for Village playing fields, they provide only limited ecological function and value in part due to the dominance of exotic and weedy plant species. The construction of the proposed project is not expected to have significant impacts on aquatic communities of the Hudson and Pocantico Rivers. Potential short-term impacts to aquatic communities would be minimized by strict adherence to the Soil Erosion and Sediment Control Plan and potential impacts to aquatic communities during the operation of the project would be mitigated through the construction of a stormwater management system.

EXECUTIVE SUMMARY

Wetland, terrestrial, and aquatic studies were performed of the former General Motors Corporation (GM) Assembly Plant site located along the Hudson River within the Village of Sleepy Hollow (formerly North Tarrytown), Westchester County, New York. The site is a total of 94.5 acres with 64.5 acres of land west of the existing Metro-North railroad tracks ("West Parcel"), 1.7 acres south of Beekman Avenue ("South Parcel"), and another 28.3 acres east of the tracks ("East Parcel"). The site is bordered by a mix of various storefronts and residential dwellings that front along Beekman Avenue, commercial/industrial business operations along River Street, Westchester County and Sleepy Hollow Village parkland to the north and west, the Pocantico River and the Philipsburg Manor Restoration to the north, and the Hudson River to the west. The site's shoreline along the Hudson River is defined by a riprapped slope. The historic Tarrytown Lighthouse is located along the site's western shoreline.

The West Parcel and South Parcel are currently being proposed for redevelopment by Roseland/Sleepy Hollow, LLC with a mix of commercial, residential, and park uses that will collectively be known as Lighthouse Landing at Sleepy Hollow. The East Parcel will be redeveloped with Village of Sleepy Hollow public works and park uses.

This project is subject to the requirements of the New York State Environmental Quality Review Act (SEQRA) and a Draft Environmental Impact Statement (DEIS) is being prepared to address these requirements. The wetland, terrestrial, and aquatic studies documented within this report were conducted in conjunction with the preparation of the DEIS.

Available data regarding the ecological resources of the site and surrounding area was compiled through a review of existing information, including reports and maps prepared by local, state, and federal agencies. Field studies were conducted to inventory ecological resources on the site and adjacent parkland (i.e., Kingsland Point Park, Devries Park, and Philipsburg Manor Historic Site). Existing vegetative, wildlife, and aquatic communities were described according to the ecological communities classified by the New York Natural Heritage Program (NHP) for New York State (NHP, 2002). A Vegetative Communities Map was developed based on the field surveys and an analysis of aerial photographs.

In the project area, activities in wetlands may be regulated by the U.S. Army Corps of Engineers (ACOE), the New York State Department of Environmental Conservation (DEC), and/or the Village of Sleepy Hollow. Jurisdictional wetland boundaries were flagged in the field and surveyed and are shown on the site plans for the project.

The project site and adjacent parklands include nine vegetative communities based on the ecological community classification system set forth by the NHP (2002). Estuarine Riprap/Artificial Shore occurs along the project site's shoreline with the Hudson River. Brackish Tidal Marsh occurs along a portion of the shoreline of the Pocantico River within Devries Park. Ditch/Artificial Intermittent Stream occurs in association with a series of wetland ditches connected by pipes along the east side of the railroad tracks. Off-site wetlands along the Pocantico River upslope of the Brackish Tidal Marsh would fall into the Red Maple-Hardwood Swamp community. The project site and its immediate vicinity appear to contain remnant areas of Oak-Tulip Tree Forest. Because of historic disturbance, only a small number of canopy trees remain from this forest community. In most areas, introduced species occur with the native species in the canopy and most native shrubs have been eliminated. Within the project site, this community has only been mapped on the steep slopes along the eastern boundary of the East Parcel. Oak-Tulip Tree Forest is more prevalent in the adjacent parklands, though its expanse is restricted by park and residential development. It occurs within upland slopes along the Pocantico River within Devries Park and Philipsburg Manor Historic Site. Because of routine maintenance, most of the wooded areas within Devries Park and Kingsland Point Park are best classified as Mowed Lawn with Trees and Mowed Lawn. The existing Metro-North railroad tracks divide the project site into the East Parcel and West Parcel. Vegetation occurs in strips on either side of the tracks. Urban Vacant Lot is the predominant ecological community within the project site. Vegetation grows in the cracks of the pavement, on soil piles, in unpaved fill areas, and next to the concrete slabs.

No Significant Coastal Fish and Wildlife Habitats have been mapped by the State of New York Department of State (DOS) on or immediately adjacent to the project site. The presence of wildlife cover within the project site and adjacent parklands directly corresponds to the nine ecological communities. A tenth ecological community, Tidal River, is included to represent wildlife habitat provided by the Hudson and Pocantico Rivers. Of the 136 species of birds identified as occurring or potentially occurring within the project vicinity, only 59 or 43 percent of the total have been identified by the study as potentially breeding because the project site and adjacent parklands do not contain a diversity of habitats. Most of the identified species would likely occur only as migrants because of the site's position along the Hudson River, which is an important bird migration corridor.

Eleven species of reptiles and amphibians are identified as occurring or potentially occurring within the project vicinity, including three species of turtles, two species of snakes, one species of salamander, two species of toads; one species of treefrog; and two species of true

frogs. No reptile or amphibian species were observed during the field studies. Whitetail deer, eastern gray squirrel, and eastern chipmunk were observed on the project site. However, the primary habitat for these species is within the woodlands of the adjacent parklands. Although not observed during the field studies, it is expected that Norway rat, house mouse, and perhaps, white-footed mouse occur within the project site. In addition to these species, short-tail shrew would be expected to occur in the adjacent parklands.

The Hudson River and Pocantico River provide Tidal River habitat in the project vicinity. More than 150 species of fish, many introduced, are known to occur within the tidal portion of the Hudson River and its tidal tributaries. These species include freshwater or diadromous (migratory between fresh and salt waters) forms and marine strays. Of these, about 80 are freshwater or diadromous forms and 50 occur regularly in nearshore (shallow water) areas. During field studies of the project site, banded killifish were observed in the wetland ditches and in an area of ponded water in the northeastern portion of the site.

The NHP has a record of shortnose sturgeon, a State-endangered species, within the lower Hudson River. The NHP also has historical records for three rare plants that may be on or in the immediate vicinity of the site. During field studies of the site, these plants were not observed on the site and are not expected to occur due to the disturbance of the site and its being largely covered by impervious surfaces.

Implementation of the proposed project should not adversely affect the limited ecological resources of the project site. The vast majority of the project site has been identified as Urban Vacant Lot. Due to the presence of extensive pavements and concrete pads remaining from the demolished plant facilities, the existing plant community is restricted to scattered plants and small strips of vegetation composed of weedy or non-native species. The ecological value of this plant community and its associated wildlife habitat is extremely low and its loss would not be significant. Redevelopment of the site would increase the value of portions of the site through the establishment of new native vegetation. Although the wetland ditches would be filled and their drainage functions served by culverts, these ditched wetlands are man-made features, which provide only limited ecological function and value in part due to the dominance of exotic and weedy plant species and that the ditches were constructed for stormwater management purposes. Also, opportunities exist for the mitigation of this impact by the construction of new wetlands in the vicinity of the Pocantico River.

The construction of the proposed project is not expected to have significant impacts on aquatic communities of the Hudson and Pocantico Rivers. Potential short-term impacts on

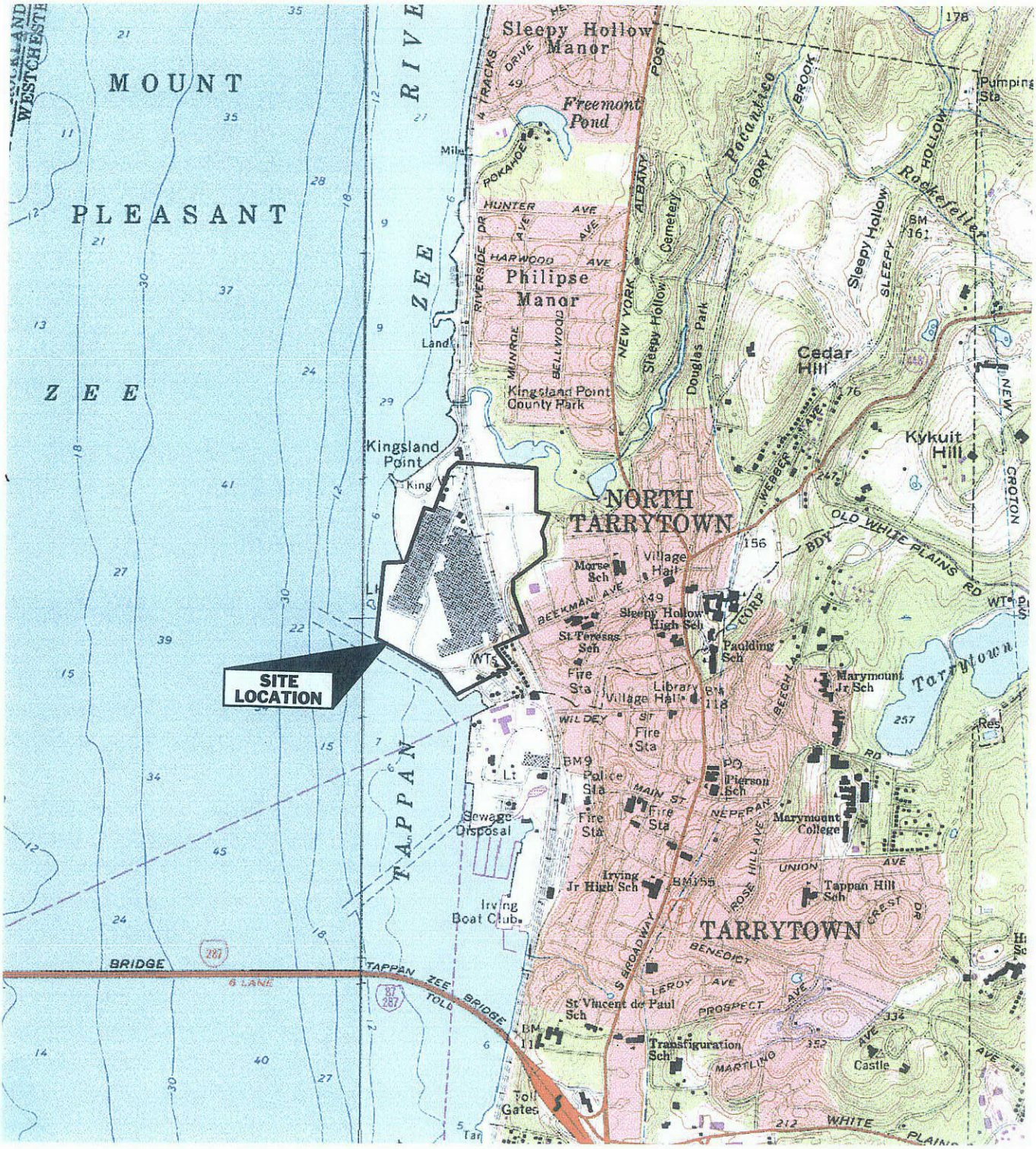
surface water quality would be minimized by strict adherence to the measures specified in the Soil Erosion and Sediment Control Plan. Potential impacts to aquatic communities during the operation of the project would be mitigated through the construction of a stormwater management system.

I. INTRODUCTION AND METHODOLOGY

EcolSciences, Inc. was retained by Roseland/Sleepy Hollow, LLC of Short Hills, New Jersey to conduct wetland, terrestrial, and aquatic studies of the former General Motors Corporation (GM) Assembly Plant site located at 199 Beekman Avenue within the Village of Sleepy Hollow (formerly North Tarrytown), Westchester County, New York (Figure 1). The site is located along the eastern shoreline of the Hudson River north of the Tappan Zee Bridge. The following lots are included within the site: Section 15.10, Block 1, Lot 1; Section 15.11, Block 1, Lots 2 and 85; and Section 15.15, Block 1, Lot 1. The GM automotive assembly plant produced Chevrolet automobiles on the premises from *circa* 1914 until cessation of their operations and subsequent building demolition activities that began in 1996. Various other industrial entities existed on the site from *circa* 1830 until 1914.

The West Parcel and South Parcel are currently being proposed for redevelopment by Roseland/Sleepy Hollow, LLC with a mix of commercial, residential, and park uses that will collectively be known as Lighthouse Landing at Sleepy Hollow. According to preliminary plans, the East Parcel will be redeveloped with Village of Sleepy Hollow public works and park uses. This project is subject to the requirements of the New York State Environmental Quality Review Act (SEQRA) and a Draft Environmental Impact Statement (DEIS) is being prepared to address these requirements. The wetland, terrestrial, and aquatic studies documented within this report were conducted in conjunction with the preparation of the DEIS.

The site is a total of 94.5 acres with 64.5 acres of land west of the existing Metro-North railroad tracks ("West Parcel"), 1.7 acres south of Beekman Avenue ("South Parcel"), and another 28.3 acres east of the tracks ("East Parcel"). The site has 740± feet of roadway frontage along the northerly line of Beekman Avenue and 2,634± feet of frontage along the Hudson River. The majority of the site consists of upland created through a series of filling events dating from *circa* 1927 to 1960. At the present time, the overall site is characterized by nearly level topography, with elevations ranging from 10± feet above Mean Sea Level (MSL) along the Hudson River frontage to 20± feet MSL along the eastern site boundary. Remnants of the former GM plant include extensive concrete building slabs that cover the majority of lands west of the railroad tracks and asphalt pavement that covers most of the eastern portion of the site. The site is bordered by a mix of various storefronts and residential dwellings that front along Beekman Avenue, commercial/industrial business operations along River Street, Westchester County and Sleepy Hollow Village parkland to the north and west, the Pocantico River and the Philipsburg Manor Restoration to the north, and the Hudson River to the west. The site's shoreline along the



QUADRANGLE LOCATION
LATTITUDE: 41° 5' 1.0"
LONGITUDE: 73° 52' 13.4"

N

FIGURE 1: REGIONAL SITE LOCATION MAP

Lighthouse Landing
Redevelopment Project
Village of Sleepy Hollow
Westchester County, New York

Source : USGS, 1979 Nyack and White Plains, N.Y. Quadrangles

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

DATE : 04/08/04
SCALE : 1" = 2,000'
f:\jobs01\hw01-159\hw01-159.vsd

Hudson River is defined by a riprapped slope. The historic Tarrytown Lighthouse is located along the site's western shoreline.

The improvements planned in conjunction with the Lighthouse Landing project would affect the ecological resources of the site and its vicinity. Examples of the ecological resources that have the potential to be affected include wetland, terrestrial, and aquatic communities. In order to properly assess the project's impacts upon these resources, existing data have been compiled and field studies performed to determine the extent of ecological resources on the site and in the surrounding area.

Available data regarding the ecological resources of the site and surrounding area was compiled through a review of existing information, including reports and maps prepared by local, state, and federal agencies. Information concerning the presence of plant and animal communities on the project site and its vicinity was obtained from existing agency sources such as the New York State Natural Heritage Program (NHP), New York State Department of Environmental Conservation (DEC), New York State Department of State (DOS), and U.S. Fish and Wildlife Service (USFWS). Other sources of information included various technical publications from private and academic concerns such as Audubon New York, Hudsonia, Ltd., and Cornell University. Field studies were conducted by EcolSciences as necessary to inventory ecological resources on the site and adjacent parkland (i.e., Kingsland Point Park, Devries Park, and Philipsburg Manor Historic Site).

This report presents the technical analyses performed to assess the potential impacts of the proposed project on the ecological resources of the site. Where appropriate, discussions are provided that describe the natural resources of the site in the context of the region, the Hudson River watershed, and the site vicinity. For each of the topics of discussion, specific methodologies used to compile information concerning the topic are presented as appropriate. The following subsections describe the various types of ecological communities and relevant agency jurisdiction over each, and summarize the field work conducted by EcolSciences for each of these areas. The next section of the report describes existing conditions, and the last section discusses potential project impacts on the relevant ecological resources.

A. Wetland Communities

Wetlands are lands where water saturation is the dominant factor determining the nature of soil development and the types of plant and animal communities living in the soil and on its surface. Wetlands are transitional areas between terrestrial and aquatic systems. In the project area, activities in wetlands may be regulated by the U.S. Army Corps of Engineers (ACOE), the

New York State Department of Environmental Conservation (DEC), and/or the Village of Sleepy Hollow. The State regulates tidal wetlands, freshwater wetlands of 12.4 acres in size or greater, and smaller freshwater wetlands of unusual local significance. The ACOE and the Village of Sleepy Hollow regulate wetlands (as defined by the respective jurisdictions) regardless of size. Details of each of the wetland regulatory programs are provided below:

1. U.S. Army Corps of Engineers Jurisdiction

According to regulations promulgated by the ACOE and the U.S. Environmental Protection Agency (EPA) (33 CFR Section 328.3 and 40 CFR Section 230.3, respectively), wetlands are those areas that are inundated or saturated within surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted to life in saturate soil conditions, commonly known as hydrophytic vegetation. Wetlands generally include swamps, marshes, bogs, and similar areas.

The ACOE has jurisdiction over "Waters of the United States," including tidal wetlands and freshwater wetlands. Activities in waters are regulated by the ACOE in accordance with Section 404 of the Clean Water Act and, for navigable waters, by Section 10 of the Rivers and Harbors Act of 1899. Section 10 regulates work or structures on, over, or under navigable waters of the United States [33 CFR Part 320.2(b)]. Navigable waters of the United States are "those waters of the United States that are subject to the ebb and flow of the tide shoreward to the mean high water mark and/or are presently used or have been used in the past or may be susceptible for use to transport interstate or foreign commerce" [33 CFR Part 322.2(a)]. Section 404 regulates the discharge of dredged or fill material into waters of the United States pursuant to 33 CFR Part 323. Waters of the United States include navigable waters in addition to most other non-navigable tidal and non-tidal waters and adjacent wetlands as defined at 33 CFR Part 328.3(a). Section 404 does not regulate buffers adjacent to regulated wetlands.

2. New York State Jurisdiction

As defined by the New York State Environmental Conservation Law (ECL Sec. 24-0703[7]), wetlands are lands under water that may be permanently, temporarily or intermittently covered with fresh or salt-water and commonly referred to as flood basins or flats, meadows, marshes, shrub swamps, wooded swamps, or bogs.

Freshwater Wetlands

Pursuant to the New York State Freshwater Wetlands Act (Article 24 of the Environmental Conservation Law), "freshwater wetlands" are defined as:

Lands and waters of the state shown on the freshwater wetlands map which contain any or all of the following:

a. Lands and submerged lands commonly called marshes, swamps, sloughs, bogs, and flats supporting aquatic or semi-aquatic vegetation of the following types: [what follows is a list of commonly occurring wetland trees and shrubs; emergent vegetation; rooted floating-leaved vegetation; free-floating vegetation; wet meadow vegetation; bog mat vegetation and submerged vegetation];

b. Lands and submerged lands containing the remnants of any vegetation that is not aquatic or semi-aquatic that has died because of wet conditions over a sufficiently long period, provided that such wet conditions do not exceed a maximum seasonal water table depth of six feet and provided further that such condition can be expected to persist indefinitely, barring human intervention;

c. Lands and waters substantially enclosed by aquatic or semi-aquatic vegetation as set forth in paragraph (a) or by dead vegetation as set forth in paragraph (b), the regulation of which is necessary to protect and preserve the aquatic and semi-aquatic vegetation; and

d. The waters overlying the areas set forth in (a) and (b) and the lands underlying (c) [N.Y. Environmental Conservation Law Section 24-0107(1)].

Areas within 100 feet of freshwater wetlands (or further when specifically found by the DEC necessary to protect the wetlands) are termed adjacent areas and are also subject to regulation.

The DEC regulates activities in freshwater wetlands larger than 12.4 acres or smaller wetlands of unusual local importance and associated adjacent areas pursuant to 6 NYCRR Part 663. Permits are issued for activities in these regulated areas under standards emphasizing the need for the proposed activity to be compatible with the wetlands proposed to be affected; generally the agency requires an applicant to demonstrate that impacts to these areas have been avoided and minimized to the extent practicable. The classification of the wetlands also plays a role in the issuance of permits. Compensatory mitigation is usually required when permits are issued. To be regulated, the freshwater wetlands must first be mapped and the maps promulgated through a public hearing process; however, if wetlands that qualify for regulation are discovered on a proposed project site, the DEC may seek to amend the relevant map to include such areas or the applicant may agree to treat such wetlands as regulated and proceed accordingly.

Tidal Wetlands

Pursuant to the New York State Tidal Wetlands Act (Article 25 of the Environmental Conservation Law), "tidal wetlands" are defined as:

> Any lands delineated as tidal wetlands on an inventory map and shall comprise the following classifications as delineated on such map:
>
> a. Coastal Fresh Marsh – The tidal wetland zone found primarily in the upper tidal limits of riverine systems where significant freshwater inflow dominates the tidal zone. Species normally associated with this zone include narrow-leaved cattail (*Typha augustifolia*), the tall brackish water cordgrasses (*Spartina pectinata* and/or *S. cynsuroides*), and the more typically emergent freshwater species such as arrow arum (*Peltandra sp.*), pickerelweed (*Pontederia sp.*), and cutgrass (*Leersia sp.*).
>
> b. Intertidal Marsh - The vegetated tidal wetland zone lying between average high and low tidal elevations. The predominant vegetation in this zone is low marsh cordgrass (*Spartina alterniflora*).
>
> c. Coastal Shoals, Bars and Flats - The tidal wetland zone that, unless otherwise determined by the DEC, includes land that (i) at high tide is covered by water, (ii) at low tide is exposed or is covered by water to a maximum depth of approximately one foot, and (iii) is not vegetated by low marsh cordgrass (*Spartina alterniflora*).
>
> d. Littoral Zone - The tidal wetlands zone that, unless otherwise determined by the DEC, includes all lands under tidal waters which are not included in any other category provided there shall be no littoral zone under water deeper than six feet at mean low water.
>
> e. High Marsh or Salt Meadow - The normal uppermost tidal wetland zone, usually dominated by salt meadow grass (*Spartina patens*) and spike grass (*Distichlis spicata*). This zone is periodically flooded by spring and storm tides and is often vegetated by low vigor *Spartina alterniflora* and seaside lavender (*Limonium carolinianum*). Upper limits of this zone often include black grass (*Juncus gerardi*), chairmaker's rush (*Scirpus sp.*), marsh elder (*Iva frutescens*) and groundsel bush (*Baccharis halimifolia*).
>
> f. Formerly-connected Tidal Wetlands – The tidal wetlands zone in which normal tidal flow is restricted by man-made causes. Typical tidal wetland plant species may exist in such areas although they may be infiltrated with common reed (*Phragmites sp.*).

The DEC regulates activities in tidal wetlands of any size and an associated adjacent area up to 300 feet wide pursuant to 6 NYCRR Part 661. Standards for the issuance of permits for activities in tidal wetlands are similar to those for freshwater wetlands and focus on avoidance, minimization, compensation, and wetlands classification. In addition, the regulations impose certain development restrictions on regulated tidal wetlands and adjacent areas. Tidal wetlands

must first be mapped and the maps promulgated through a public hearing process to be regulated. but DEC can regulate unmapped wetlands that meet the statutory and regulatory criteria for delineation.

3. Village of Sleepy Hollow Jurisdiction

The Village of Sleepy Hollow regulates activities in freshwater wetlands, watercourses, and associated 100-foot wide buffers within its limits through Chapter 61 of the Village Code. The Code defines wetlands as those areas that are identified as wetlands on the official Freshwater Wetlands Map promulgated by the DEC Commissioner. The Village Code also defines wetlands as those areas that are inundated or saturated within surface or ground water at a frequency and duration sufficient to support, and that inundated or saturated with surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of hydrophytic vegetation as defined by the Federal Interagency Committee for Wetland Delineation, 1989, *Federal Manual for Identifying and Delineating Jurisdictional Wetlands*. (Note that the ACOE uses the 1987 *Corps of Engineers Wetlands Delineation Manual*.) The Village Code does not require that the wetlands be previously mapped and does not specify a minimum size to be subject to regulation. A permit is required from the Village Planning Board for proposed impacts to regulated areas, which would be issued if it is demonstrated that the impacts are unavoidable, they have been minimized, and that there is no practicable alternative locations for the proposed activity. If the permit is issued, mitigation of the impacts would be required.

A wetlands study of the site was performed by EcolSciences in October 2003. This study was conducted in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the *Federal Manual for Identifying and Delineating Jurisdictional Wetlands* (Federal Interagency Committee for Wetland Delineation, 1989), both of which generally require a coincidence of hydric soils, positive hydrological indicators, and a prevalence of hydrophytic vegetation for a determination that an area is a wetland (i.e., all three factors must be present, absent unusual circumstances such as man-made disturbance). The delineated wetland boundaries were flagged in the field and surveyed and are shown on the site plans for the project.

B. Vegetative Communities

Vegetation is the plant life or the total plant cover that is found in a specific area, whether indigenous or introduced by humans. Communities of vegetation evolve through of complex interaction of geology, topography, soils, hydrology, weather, and the activities of humans and animals. The New York Natural Heritage Program (NHP) published a report entitled *Ecological Communities of New York State* (Carol Reschke editor) in March 1990. This report identifies

and characterizes ecological communities of New York State into a total of 218 ecological communities within seven systems as follows: Marine; Estuarine; Riverine; Lacustrine; Palustrine; Terrestrial; and Subterranean. Each system is composed of from two to five subsystems and each subsystem is composed of from two to 35 ecological communities. The communities described are largely naturally occurring; however, each system contains a Cultural subsystem that identifies communities that are created or maintained by human activities. In January 2002, a draft of a Second Edition of this report was published by the NHP (Edinger, Evans, Gebauer, Howard, Hunt, and Olivero editors). While most of the second edition remains unchanged from the first, six previously undescribed communities have been added, 23 new communities have been split off from previously identified communities, and revised descriptions are provided for most of the remainder.[1]

Each of the broad categories of systems is briefly described below per the NHP (2002):

- Marine – open ocean overlying the continental shelf, the associated coastline that is exposed to wind and waves, and shallow coastal bays that are saline because they lack significant freshwater inflow. The limits extend from mean high water seaward, beyond the limits of rooted vascular vegetation. Salinity is greater than 18.0 parts per thousand (ppt) ocean-derived salts.

- Estuarine – deepwater tidal habitats and adjacent tidal wetlands that are usually semi-enclosed but have open, partly obstructed, or sporadic access to open ocean or tidal fresh waters, and in which ocean water is at least occasionally diluted by freshwater runoff. The limits extend from the upstream limits of tidal influence seaward to an imaginary line closing the mouth of a river or bay. Salinity is usually less than 30 ppt ocean-derived salts.

- Riverine – linear aquatic communities of flowing, non-tidal waters with a discrete channel, with persistent emergent vegetation sparse or lacking, but may include areas with abundant submerged or floating-leaved aquatic vegetation.

- Lacustrine – ponded waters situated in topographic depressions or dammed river channels, with persistent emergent vegetation sparse or lacking, but including many any areas with abundant submerged or floating-leaved aquatic vegetation.

- Palustrine – non-tidal, perennial wetlands characterized by emergent vegetation. The system includes wetlands permanently saturated by seepage, permanently flooded

[1] Please note that that an additional report, Biodiversity Assessment Manual for the Hudson River Estuary Corridor (Kiviat and Stevens, 2001), was reviewed during the preparation of this report. This report provides broader classifications of communities than are described in the NHP report.

wetlands, and wetlands that are seasonally or intermittently flooded (these may be seasonally dry) if the vegetative cover is predominantly hydrophytic and the soils are hydric.

- Terrestrial – upland habitats that have well-drained soils that are dry to mesic (never hydric), and vegetative cover that is never predominantly hydrophytic, even if the soil surface is occasionally or seasonally flooded or saturated.

- Subterranean – both aquatic and non-aquatic habitats beneath the earth's surface, including air-filled cavities with openings to the surface (caves), water-filled cavities and aquifers, and interstitial habitats in small crevices within an inorganic matrix.

The NHP defines ecological communities as "a variable assemblage of interacting plant and animal populations that share a common environment" (NHP, 2002). Therefore, for the purposes of this report, the ecological communities classified by the NHP were used to describe vegetative communities and wildlife habitats within the project site and adjacent parklands. EcolSciences conducted field surveys of the project site and adjacent parklands to the north in October and December 2003 to identify plant species and to classify the vegetative communities within the study area according to the ecological communities described by the NHP (2002). A Vegetative Communities Map was developed based on the field surveys and an analysis of aerial photographs (see Plate 1). The Vegetative Communities Map shows communities on the site and within a 200-foot radius of the site boundaries. The classification of communities was largely based upon the dominance and maturity of the identified plant species, in addition to topography, soils, hydrology, and level of human disturbance. In addition, the sizes (diameter at breast height (dbh)) of trees on the site were measured to determine the presence of specimen or unusually large trees.

C. Wildlife Communities

Historically, the project area exhibited a diversity of faunal habitats due to the complex interplay of bedrock and surficial geology, topography, plant communities, tidal and fresh waters, and human activity. In modern times, the loss or disturbance of the area's natural habitats, initially through agricultural conversion of habitats and more recently through urbanization, has altered the composition and abundance of fauna. Loss of certain species, increasing scarcity of some species, increasing abundance of others, and competition by introduced species have been contributing factors to the current status of fauna within the area.

The utility value of an area as wildlife habitat depends on many factors. All wildlife species require food, water, cover, and space. The relative abundance of these factors or lack thereof in relation to each species' requirements will, in part, determine the species composition and distribution within a particular area. In addition, the types of vegetative communities

present, the size, shape, and complexity of the habitat and the surrounding land uses further interact to determine the success of various wildlife species in the location being considered. Some species have demonstrated great adaptability and tolerance to human presence; others are less able to tolerate such activities and are displaced to more suitable habitats, if such habitats are available.

Studies were performed to characterize the wildlife communities that may be directly affected by the proposed redevelopment project. Available data regarding the site and surrounding area was compiled through a review of existing information, including reports and maps prepared by public, private, and academic organizations. Information concerning the presence of animal communities on the project site and its vicinity was obtained from existing agency sources such as NHP, DEC, DOS, and USFWS. Information was also obtained from existing public and private organizations such as National Audubon Society, New York Audubon, and Cornell University. Field surveys were conducted to identify wildlife species that are present on and in the vicinity of the project site, and to determine, based on the presence of suitable habitat, what species may be supported by the site, even if not observed. Wildlife habitats were verified in the field and classified in accordance with the ecological communities described by the NHP (2002). A list of wildlife species observed on the site or expected to occur on the site or its immediate vicinity as resident or transient species was developed based on field observation, existing data sources, and the presence of habitat types.

D. Aquatic Communities

The characteristics of aquatic communities that inhabit surface waters are generally shaped by the physical (e.g., water depth, flow, temperature, etc.), chemical (e.g., dissolved oxygen, salinity, etc.), and biotic (e.g., food availability, competition, predation, etc.) factors of the waters. Principal components of aquatic communities that are typically evaluated for classifying the health of surface waters are the fishes and benthic (i.e. bottom-dwelling) macroinvertebrates. Benthic macroinvertebrates include organisms that are aquatic throughout their lives and organisms that have distinct aquatic and terrestrial life stages.

The aquatic communities of the surface waters on and adjacent to the site, including the Hudson River and Pocantico River, were evaluated based on existing data sources and observations made during the field surveys.

E. Threatened and Endangered Species

As defined at 6 NYCRR Part 193.3, endangered plant species are those: with five or fewer extant sites; or with fewer than 1,000 individuals; or restricted to fewer than four U.S.

Geological Survey (USGS) 7.5 minute topographical maps; or species listed as endangered by the U.S. Department of Interior (USDOI), Fish and Wildlife Division. Threatened species are those: with six to fewer than 20 extant sites; or within 1,000 to less than 3,000 individuals: or restricted to not less than four or more than seven USGS maps; or species listed as threatened by the USDOI. Rare species have 20 to 35 extant sites or 3,000 to 5,000 individuals statewide. Species meeting these criteria are listed at 6 NYCRR Part 193.3 as promulgated by the DEC.

As defined at 6 NYCRR Part 182.2, endangered animal and insect species are any native species in imminent danger of extirpation or extinction in New York, or any species listed as endangered by the USDOI. Threatened animal species are any species likely to become endangered within the foreseeable future in New York, or any species listed as threatened by the USDOI. Special concern species are not yet recognized as endangered or threatened, but documented concern exists for their continue welfare in New York. Species meeting these criteria are listed at 6 NYCRR 182.6 as promulgated by the DEC.

The DEC and NHP track the status of New York's flora and faunal community. The ranking system of DEC provides a legal protected status to species. In addition, the NHP assigns both a state and a global rank to threatened and endangered species. A request was submitted to the agencies concerning listed species that may currently or have historically occurred on or in the vicinity of the project site.

Any plant or animal species that occurs on state and federal lists of threatened and endangered species, or is otherwise listed as rare or of special concern on official lists, was identified as such if it was observed on the site. If it was determined that on-site cover types are potentially suitable for threatened or endangered species that occur in the project area, then the habitat types have been identified and the probability of it harboring these species discussed in this report.

F. Future Conditions Without the Project

Future No Action conditions are discussed in this report using information from the ecological resources assessment. An assessment of the future condition of ecological resources within the project site and adjacent lands is provided based on the assumption that the redevelopment project would not be implemented.

G. Project Related Impact

Analyses of the impacts of the project upon the site's ecological resources are documented in this report. These analyses include an assessment of the implications of the loss

of each habitat type. In addition, this report contains discussions concerning the following issues:

- The on-site habitat type requirements for wildlife observed on the site, as well as species expected to be found on the site;
- The short-term and long-term impacts of habitat type loss;
- Threatened and endangered species of plants and animals pursuant to state and federal guidelines; and
- Impacts to ecological resources due to stormwater discharges.

Construction and operation/maintenance of the project may affect the ecological resources within the site and adjacent lands. The report includes a discussion of the potential effects of the proposed action on relevant ecological resources within the site and adjacent portions of the Hudson River and Pocantico River.

II. EXISTING CONDITIONS

A. Wetland Communities

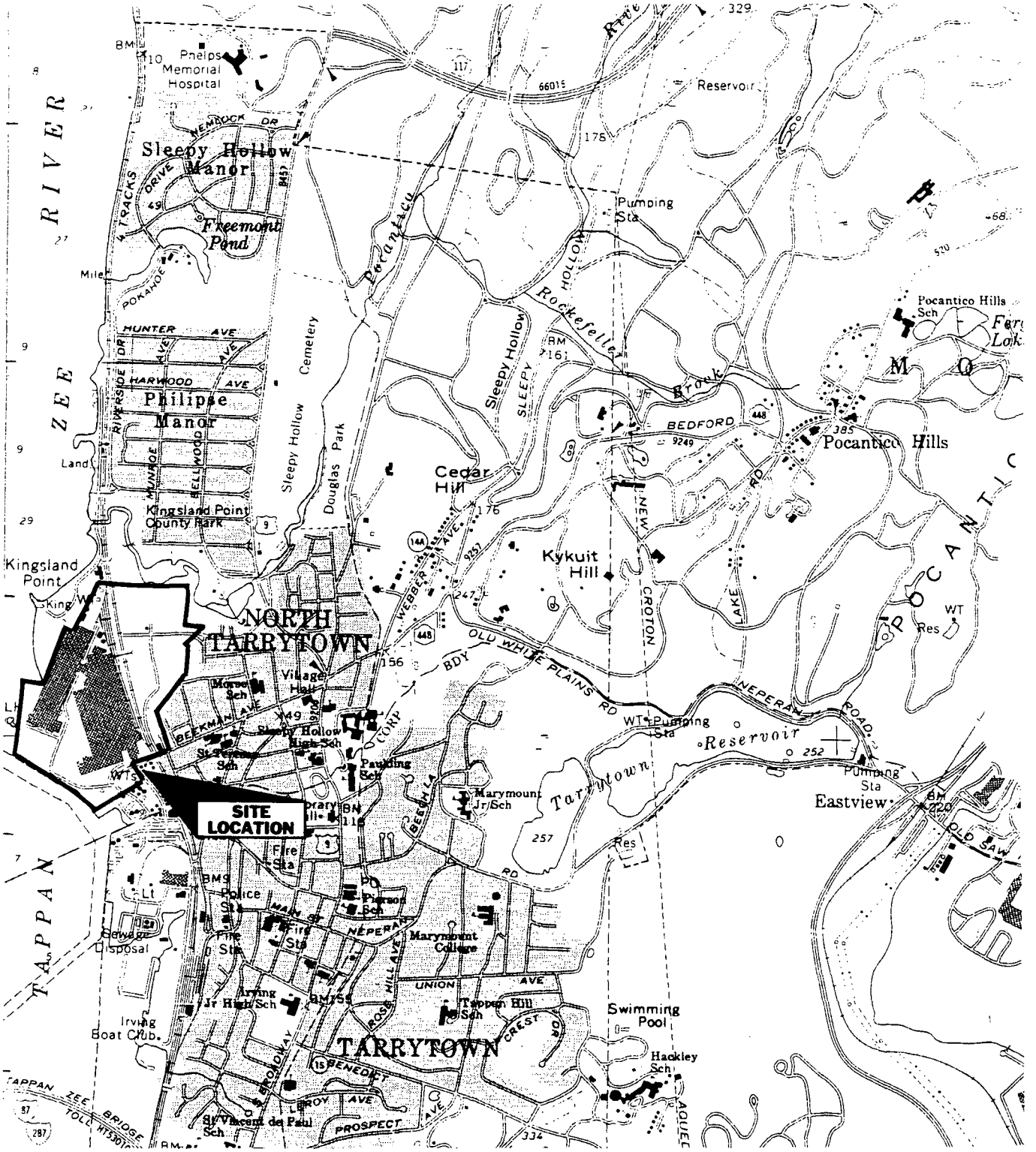
No State-regulated freshwater wetlands are identified on or adjacent to the site (DEC. Freshwater Wetlands Map, Westchester County, Map 10 of 14) (see Figure 2). Based on EcolSciences' recent contacts with the DEC, tidal wetlands maps are in the process of being prepared for the area of the Hudson River north of the Tappan Zee Bridge to the Troy Lock and none are publicly available for the project area.

A wetlands delineation was conducted on the site by EcolSciences in October 2003. Federal and Sleepy Hollow jurisdictional wetlands were delineated on the site in association with a series of man-made ditches connected by pipes along the east side of the railroad tracks. The ditches are approximately 12 feet in width and 825 feet in length, totaling approximately 9,900 square feet in size as shown on the site plans. These ditches appear to connect to the Pocantico River, a tributary of the Hudson River, via a pipe that extends off the property to the north. As a result of this connection and based on the observation of killifish in the ditches, it is likely that the ditches are tidally influenced. The Hudson River is known to be tidally influenced to approximately the Troy Lock (River Mile 150). In addition, it was observed that an approximately 10,000 square foot portion of the northeast corner of the property, adjacent to the Pocantico River, is flooded by the daily tides. This area contains wetland vegetation on sediment deposited over pavement. Killifish were also observed in this area. This area was not identified as jurisdictional wetlands due to the presence of pavement.

Wetlands were also identified adjacent to the project site within Devries Park along the Pocantico River to the north and northeast of the east portion of the site. These wetlands were not flagged and surveyed, but their approximate boundaries are shown on the Vegetative Communities Map that accompanies this report.

The ACOE and the Village of Sleepy Hollow regulate activities in the identified wetlands. Further, the Village regulates activities in the 100-foot buffers along the wetlands.

The on-site wetlands are of low ecological function and quality. Their small size (i.e., 0.23 acres±) coupled with their configuration (i.e., linear, narrow, and discontinuous) result in limited potential for the wetlands to perform typical wetland functions (e.g., flood storage, water quality improvement, groundwater recharge, wildlife habitat, etc.). In addition, the elevations of



QUADRANGLE LOCATION
LATTITUDE: 41° 5' 1.0"
LONGITUDE: 73° 52' 13.4"

N

FIGURE 2: FRESHWATER WETLANDS MAPPING

Lighthouse Landing
Redevelopment Project
Village of Sleepy Hollow
Westchester County, New York

Source : NYDEC, 1987 New York State Freshwaters Wetlands Map - Westchester County Map 10

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

DATE : 04/08/04
SCALE : 1" = 2,000'
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the pipes connecting the ditches restrict the free exchange of water between the ditches and the Pocantico River. These physical characteristics, along with the dominance of exotic/weedy plants and existing impacts due to stormwater discharges into the ditches, limit the ability of the wetlands to perform these functions. Therefore, the wetlands are of low ecological quality. Further reducing the quality of the wetlands is the presence of pavement, rather than vegetated buffers, surrounding the ditches.

B. Vegetative Communities

The project site and adjacent parklands include nine vegetative communities based on the ecological community classification system set forth by the NHP (2002). These include: two communities within the Estuarine System - Estuarine Riprap/Artificial Shore and Brackish Tidal Marsh; one community within the Riverine System - Ditch/Artificial Intermittent Stream; one community within the Palustrine System - Red Maple-Hardwood Swamp; and five communities within the Terrestrial System - Oak-Tulip Tree Forest, Mowed Lawn with Trees, Mowed Lawn, Railroad, and Urban Vacant Lot. Of these communities, six fall within the Cultural Subsystem of their respective system due to the influence of human activities: Estuarine Riprap/Artificial Shore, Ditch/Artificial Intermittent Stream, Mowed Lawn with Trees, Mowed Lawn, Railroad, and Urban Vacant Lot. The extents of these communities are presented on Plate 1 and descriptions of their characteristics on and adjacent to the site are presented below. Vegetative species identified during the field are presented in Appendix A. Please note that the vegetative communities observed within the project site and its immediate vicinity do not precisely fit into the selected communities in all cases. The NHP acknowledges that, for the purpose of their report, "artificial boundaries between communities have been drawn across the continuous ecological gradients that occur in the real landscape" (NHP, 2002).

Estuarine Riprap/Artificial Shore – the wetland community of a constructed estuarine shore in which the substrate is composed of broken rocks, wooden bulkheads, or concrete placed so as to reduce erosion. Vegetative cover and species diversity are low as compared to natural shorelines (NHP, 2002).

The project site's shoreline with the Hudson River is not natural rather it is comprised of an armored slope of stone riprap. The vegetative community along the shoreline is restricted to a fairly dense brushy strip containing tree-of-heaven, Queen Anne's lace, seaside goldenrod, evening primrose, bittersweet, multiflora rose, and biennial mugwort.

Brackish Tidal Marsh – a marsh community that occurs where water salinity ranges from 0.5 to 18.0 ppt, and water is less than 2 m (6 ft) deep at high tide. This community consists of a mixture of salt marsh and freshwater tidal marsh species, with no species attaining dominance over extensive areas (although some species are locally abundant in

patches). The vegetation in a brackish tidal marsh is dense and dominated by tall graminoids (NHP, 2002).

Brackish Tidal Marsh occurs along a portion of the shoreline of the Pocantico River within Devries Park. Vegetation within the wetlands is largely herbaceous with trees and shrubs scattered along the edge. Common reed is the dominant herbaceous plant with Japanese knotweed also observed. Identified tree species include black willow, cottonwood, red maple, ash, American elm, alder, and American sycamore. Identified shrubs and vines include multiflora rose, grape, and poison ivy.

A portion of the northeast corner of the property, adjacent to the Pocantico River, is flooded by the daily tides. This area contains wetland vegetation on sediment deposited over pavement. From a vegetative standpoint, this area could be considered Brackish Tidal Marsh. Vegetation in this area is dominated by common reed with some purple loosestrife, biennial mugwort, black locust, multiflora rose, and alder. The vegetation grows either on sediment that has been deposited over pavement or coming through the cracks of the asphalt.

Ditch/Artificial Intermittent Stream – the aquatic community of an artificial waterway constructed for drainage or irrigation of adjacent lands. Water levels either fluctuate in response to variations in precipitation and groundwater levels, or water levels are artificially controlled. The sides of ditches are often vegetated. Exotic or weedy species are common (NHP, 2002).

The wetlands that were delineated on the site in association with a series of man-made ditches connected by pipes along the east side of the railroad tracks would fall into this classification. The ditches were likely constructed for stormwater management purposes during the operation of the site. Vegetation within the wetlands is largely herbaceous with scattered trees and shrubs along the banks of the ditches. Identified herbaceous species include common reed, cattail, purple loosestrife, soft rush, goldenrod, evening primrose, and mugwort. Identified woody species include black willow, cottonwood, black locust, tree-of-heaven, multiflora rose, and summer grape. The wetlands are of low ecological value due in part to the dominance of exotic and weedy plants and impacts due to stormwater discharges into the ditches. These ditches appear to connect to the Pocantico River via a pipe that extends off the property to the north and thus are likely tidally-influenced due to relative elevations. As such, the lower reach of the ditch may also fall into the brackish tidal marsh community.

Red Maple-Hardwood Swamp – a hardwood swamp that occurs in poorly-drained depressions, usually on inorganic soils. This is a broadly defined community with many regional and edaphic variants. In any one stand red maple is either the only canopy

dominant, or it is codominant with one or more hardwoods including ashes, elms, yellow birch, and swamp white oak (NHP, 2002).

Off-site wetlands along the Pocantico River upslope of the Brackish Tidal Marsh would fall into this classification. These primarily wooded wetlands extend along the tidally-influenced section of the river to about the dam at Philipsburg Manor. These wetlands would not be inundated by the diurnal tides; however, spring tides or storm tides would likely inundate them. Identified tree species include black willow, cottonwood, red maple, ash, American elm, alder, and American sycamore. Identified shrubs and vines include multiflora rose, grape, and poison ivy. Herbaceous plants are prevalent throughout the wetlands and identified species include common reed and Japanese knotweed.

Oak-Tulip Tree Forest – a mesophytic hardwood forest that occurs on moist, well-drained sites in southeastern New York. The dominant trees include a mixture of five or more of the following: red oak, tulip tree, beech, black birch, red maple, scarlet oak, black oak, and white oak (NHP, 2002).

The project site and its immediate vicinity appear to contain only remnant areas of Oak-Tulip Tree Forest. Because of disturbance, only a small number of canopy trees appear to remain from this forest community. In most areas, introduced species occur with the native species in the canopy and most native shrubs have been eliminated. Within the project site, this community has been mapped on the steep slopes along the eastern boundary of the East Parcel. The canopy contains black locust, Norway maple, black cherry, tree-of-heaven, and elm. Many of the canopy trees in this area exceed 12 in. dbh. Two of the largest trees, a black cherry and a black locust are 27 in. dbh and 24 in. dbh, respectively. Shrubs and vines include multiflora rose, wineberry, poison ivy, and fox grape. Due to the presence of non-native species such as Norway maple, tree-of-heaven, and multiflora rose, this forest is not of high quality.

Oak-Tulip Tree Forest is more prevalent in the adjacent parklands, though its expanse is restricted by park and residential development. It occurs within upland slopes along the Pocantico River within Devries Park and Philipsburg Manor Historic Site. The forest canopy contains red oak, black oak, black birch, black cherry, sugar maple, white ash, and black locust. On the knoll south of the intersection of Devries Avenue and Munroe Avenue, the underbrush has been cleared creating a grove-like setting with park benches. Because of routine maintenance, most of the wooded areas within Devries Park and Kingsland Point Park are best classified as Mowed Lawn with Trees and Mowed Lawn as described below.

Mowed Lawn with Trees – residential, recreational, or commercial land in which the groundcover is dominated by clipped grasses and forbs, and it is shaded by at least 30%

cover of trees. Ornamental and/or native shrubs may be present, usually with less than 50% cover. The groundcover is maintained by mowing (NHP, 2002).

Much of Kingsland Point Park is covered by former forest, most likely Oak-Tulip Tree Forest. However, most of the forest has been modified by the development of the park, including the removal of underbrush to create picnic groves, the removal of trees to create expanses of lawn, and the planting and invasion of non-native vegetation. These modifications have adversely affected the quality of the forest. Trees identified within the canopy include black locust, London planetree, sugar maple, red oak, black oak, white pine, eastern hemlock, tree-of heaven, and Norway maple. Identified shrubs and vines include multiflora rose, forsythia, and bittersweet.

In addition to the Visitor Center and historic buildings, a portion of the Philipsburg Manor Historic Site contains a small working-farm including a pasture and garden. Planted trees and shrubs are intermixed with the native forest trees.

Mowed Lawn – residential, recreational, or commercial land, or unpaved airport runways in which the groundcover is dominated by clipped grasses and forbs and there is less than 30% cover of trees. Ornamental and/or native shrubs may be present, usually with less than 50% cover. The groundcover is maintained by mowing (NHP, 2002).

Most of Devries Park contains recreational facilities including ballfields, a playground, a picnic area, and comfort facilities. Existing vegetation here consists of maintained lawn with planted ornamental trees and shrubs. The central portion of Kingsland Point Park is maintained lawn.

Railroad – a permanent road having a line of steel rails fixed to wood ties and laid on a gravel roadbed that provides a track for cars or equipment drawn by locomotives or propelled by self-contained motors. There may be sparse vegetation rooted in the gravel substrate. The railroad right of way may be maintained by mowing or herbicide spraying (NHP, 2002).

The existing Metro-North railroad tracks divide the project site into the East Parcel and West Parcel. Vegetation occurs in strips on either side of the tracks. Scattered small trees such as tree-of-heaven, cottonwood, and black locust are present as are vines and woody shrubs such as summer grape, poison ivy, bittersweet, and multiflora rose. Herbaceous vegetation includes pokeweed, common milkweed, wooly mullein, goldenrod, common reed, daisy fleabane, switchgrass, evening primrose, path rush, biennial mugwort, and pigweed.

Urban Vacant Lot – an open site in a developed urban area that has been cleared either for construction or following the demolition of a building. Vegetation may be sparse, with large areas of exposed soil, and often with rubble or other debris. Characteristic trees are often naturalized exotic species such as Norway maple, white mulberry, and tree of heaven (NHP, 2002).

Urban Vacant Lot is the predominant ecological community within the project site. Vegetation grows in the cracks of the pavement, on soil piles, in unpaved fill areas, and next to the concrete slabs. Scattered small trees such as tree-of-heaven, cottonwood, and black locust are present as are vines and woody shrubs such as summer grape, poison ivy, bittersweet, and multiflora rose. Herbaceous vegetation includes pokeweed, common milkweed, wooly mullein, goldenrod, common reed, daisy fleabane, switchgrass, evening primrose, path rush, biennial mugwort, and pigweed.

C. Wildlife Communities

No Significant Coastal Fish and Wildlife Habitats have been mapped by the State of New York Department of State (DOS) on or immediately adjacent to the project site (see Appendix B). The nearest mapped significant habitat is the Piermont Marsh located 3-4 miles downstream of the site along the western shoreline of the Hudson River in the Town of Orangetown. Piermont Marsh is an approximately 725-acre wetland complex of brackish marsh and intertidal shallows. It is one of the largest, undeveloped wetland complexes on the Hudson River and provides habitat for a large diversity of bird, reptile, small mammal, and fish species.

The presence of wildlife cover within the project site and adjacent parklands directly corresponds to the nine ecological communities (i.e., Estuarine Riprap/Artificial Shore, Brackish Tidal Marsh, Ditch/Artificial Intermittent Stream, Red Maple-Hardwood Swamp, Oak-Tulip Tree Forest, Mowed Lawn with Trees, Mowed Lawn, Railroad, and Urban Vacant Lot) identified within the Vegetative Communities Section of this Chapter and as presented on Plate 1. A tenth ecological community, Tidal River, is included herein to represent wildlife habitat provided by the Hudson River and Pocantico River.

Wildlife species known to or are likely to occur within the habitats of the project site and adjacent parklands are contained within a table in Appendix C. This list was compiled through an analysis of records contained within the NYS Breeding Bird Atlas (1980-1985 and 2000-2004 interim data), National Audubon Society Christmas Bird Count (1995-1999), Cornell University-sponsored Great Backyard Bird Count (1998-2003), and New York State Amphibian and Reptile Atlas (1990-1998 Interim Report), as well as field observations. The table identifies bird species as potential breeders, winter residents, and migratory transients based on the presence of suitable

habitat. Certain species identified within the existing records as being observed near the project site are not listed due to the absence of suitable habitat. The table provides the species' general cover type of occurrence and, as available, its foraging guild (per DeGraaf and Rudis, 1987). Species are also identified as to their legal status (i.e., Special Concern, Threatened, or Endangered). Species observed during site inspections of the study area are identified in bold type. The following sections provide a discussion of the wildlife communities of the project site and adjacent parklands.

1. Birds

Of the 136 species of birds listed as occurring or potentially occurring within the project site, adjacent parklands, and Hudson River: three species are herons; 25 species are waterfowl; two species are loons; three species are grebes, two species are cormorants, one species is a vulture; five species are hawks; three species are falcons; one species is a coot; four species are plovers and sandpipers; five species are gulls; two species are pigeons and doves; one species is a cuckoo; five species are owls; one species is a swift; one species is a kingfisher; five species are woodpeckers; three species are flycatchers; three species are swallows; three species are jays and crows; two species are titmice; two species are nuthatches; one species is a creeper; four species are wrens; seven species are thrushes; two species are kinglets; one species is a pipit; one species is a waxwing; one species is a starling; two species are vireos; 13 species are warblers; one species is a weaver finch; five species are blackbirds; one species is a tanager; and 15 species are finches, sparrows, and buntings. Only 59 or 43 percent of the total number of species have been listed as potentially breeding within the project site and adjacent parklands. These areas do not contain a diversity of habitats that would allow for the potential breeding of additional species. Most of the listed species would likely occur only as migrants because of the site's position along the Hudson River, which is an important bird migration corridor.

Thirty-one of the 136 species of birds listed in Appendix C were directly observed during the survey of the project site and adjacent parklands by EcolSciences, Inc. in October and December 2003. The following species were observed on the project site: downy woodpecker, hairy woodpecker, red-bellied woodpecker, Canada goose, rock dove, European starling, northern mockingbird, blue jay, American robin, snow bunting, mourning dove, song sparrow, white-throated sparrow, field sparrow, house finch, ruby-crowned kinglet, palm warbler, American goldfinch, greater yellowlegs, American crow, and northern harrier. Most of these species were observed as individuals or in small flocks foraging within the denser brush along the ditches and Hudson River shoreline, as well as along the property boundaries adjacent to the wooded parklands. Canada geese were observed flying over the site, although goose feces were observed on the concrete slabs indicating that the geese may forage here. Rock doves, mourning

doves, and northern mockingbirds were observed perching on the utility wires along the railroad tracks. A greater yellowlegs and two snow buntings were observed foraging within ponded water on pavement of the East Parcel before flying off-site. The northern harrier was only briefly observed flying over the site before two American crows chased it away.

The following bird species were observed within the parklands adjacent to the site: Canada goose, belted kingfisher, downy woodpecker, hairy woodpecker, red-bellied woodpecker, yellow-bellied sapsucker, European starling, northern mockingbird, bluejay, northern cardinal, mourning dove, song sparrow, white-throated sparrow, house finch, titmouse, dark-eyed junco, ruby-crowned kinglet, gray catbird, American goldfinch, American crow, and red-tailed hawk. These birds were mainly observed foraging within the woodlands. However, Canada geese were observed flying over Devries Park and goose feces were observed on the lawn area of Kingsland Point Park. A belted kingfisher was observed flying over the Pocantico River through Devries Park.

A number of waterfowl and gulls were observed on or over the Hudson River and Pocantico River: Canada goose, mute swan, bufflehead, mallard, and herring gull. Several Canada geese were observed on the Hudson River, a small flock of mute swans were flying low over the river, and solitary herring gulls were flying over the river. Two pairs of buffleheads were observed foraging close to the site's shoreline. Several mallards were observed in the Pocantico River.

The bird species observed during the field study likely represent late fall migrants and winter residents. The palm warblers, catbird, and American robins were late migrants as they do not winter in the area. The snow buntings, white-throated sparrows, dark-eyed juncos, yellow-bellied sapsucker, and ruby-crowned kinglet are solely winter residents as they breed further north. The northern harriers foraging habitats are wide-ranging in the winter, but they typically nest in fields to the north and west and tidal marshes to the south. The remaining species are likely permanent residents that summer and winter in the project area. Some limited north-south movements of individuals may occur depending on local weather conditions.

Due to general lack of cover provided by the project site, the site does not provide significant habitat for breeding birds. Small numbers of common birds such as sparrows, mockingbirds, robins, mourning doves, and house finches may breed on the site in limited areas of brush. Starlings and house sparrows may breed in existing structures. One species, the killdeer, may breed on areas of pavement. Overall, the breeding bird community within the project site is not anticipated to be significant.

Woodland habitat (i.e., Red Maple-Hardwood Swamp, Oak-Tulip Tree Forest, and Mowed Lawn with Trees) within the adjacent parklands provides substantially more opportunities for nesting by birds than does the project site. However, due to the largely disturbed nature of the woodlands, relatively small area involved, the removal of underbrush, and close proximity to developed areas, these woodlands would also not provide significant habitat for breeding birds. The birds that may breed within the parklands would be relatively common "forest-edge" species such as house wren, gray catbird, Baltimore oriole, and warbling vireo rather than "forest-interior" species such as scarlet tanager, wood thrush, and veery. Though it is possible that some forest-interior species may attempt to breed in small woodlots such as these, the scientific literature has established that these attempts are generally unsuccessful due to predation (by feral and domestic cats, raccoons, crows, bluejays, and chipmunks) and brood parasitism (by brown-headed cowbirds).

Certain raptor species may also breed within the parks' woodlands including great-horned owl, eastern screech owl, and red-tailed hawk. These are forest-edge species that require open areas for hunting and readily adapt to human habitation.

The Hudson River is an important migratory corridor for waterfowl and landbirds. Due to the site's location along the river, it is likely that birds pass through or by the site during spring and fall migration. Since the site lacks cover and foraging habitat for birds, the site is not a significant stopover during migration. Woodlands within the adjacent parks, which do offer a degree of cover and foraging habitat, would play a more important role.

2. Reptiles and Amphibians

Of the eleven species of reptiles and amphibians listed as occurring or potentially occurring within the project site, adjacent parklands, and Hudson River: three species are turtles; two species are snakes; one species is a salamander; two species are toads; one species is a treefrog; and two species are true frogs. No reptile or amphibian species were observed during the field studies performed by EcolSciences.

The New York State Amphibian and Reptile Atlas ("Herp Atlas") identifies snapping turtle, eastern box turtle, and painted turtle as occurring within the survey block containing the study area. Snapping turtle and painted turtle may occur within the Pocantico River through Devries Park and the impoundment within the Philipsburg Manor Historic Site. There is only a low possibility that eastern box turtle occurs within the study area, because it requires larger expanses of woodland than are present.

The Herp Atlas identifies northern water snake as the only snake present in the study area. Its habitat occurs along the Pocantico River. Though not recorded for the survey block, eastern garter snake would be expected to occur in the study area based on suitable habitat being present.

Two of the amphibian species listed by the Herp Atlas for the survey block, spotted salamander and wood frog, are not expected to occur within the study area. The temporary (or "vernal") fish-free pools required for the breeding of these species are not present in the study area. The other toad and frog species identified by the Herp Atlas for the survey block are less selective concerning their breeding site requirements. These species may breed in surface waters containing fish or temporary puddles (including temporary puddles on fill or pavement). Expected species include American toad, Fowler's toad, northern spring peeper, bullfrog, and green frog. The ditch on the project site and the Pocantico River provides suitable habitat for these species.

The only salamander species expected to occur within the study area is redback salamander. This species may occur under decaying logs, leaf litter, and debris in the woodlands of the adjacent parklands.

3. Mammals

Unlike for birds, reptiles, and amphibians, there are no comprehensive census programs for mammals in New York State (except possibly for large game animals). Therefore the eight mammal species listed in the table in Appendix C are based upon field observations and the provision of suitable habitat. Whitetail deer, eastern gray squirrel, and eastern chipmunk were observed on the project site. However, these observations were made along the site boundaries with the adjacent parkland. The primary habitat for these species is within the woodlands of the adjacent parklands. During the field study, several deer trails were observed in the snow within Devries Park, a muskrat was observed along the Pocantico River, and dozens of gray squirrels were observed foraging for acorns within Kingsland Point Park.

Although not observed during the field studies, it is expected that Norway rat, house mouse, and perhaps, white-footed mouse occur within the project site. In addition to these species, short-tail shrew would be expected to occur in the adjacent parklands.

D. Aquatic Communities

The Hudson River and Pocantico River provide Tidal River habitat within the study area. The Hudson River is known to be tidally-influenced to approximately the Troy Lock (River Mile 150) and the Pocantico River is tidally-influenced to the Philipsburg Manor dam. Likewise, the interconnected ditches on the project site appear to be influenced by the tides as they are connected to the Pocantico River via a pipe. The water in the Hudson River is strictly fresh (although tidal) as far south as Hyde Park. During spring floods, the water is fresh to below the Tappan Zee Bridge. As the flow of freshwater declines through the summer, the salt front (i.e., 100 parts per million) gradually moves upriver, reaching Beacon many years and penetrating as far north as Poughkeepsie or Hyde Park during severe droughts (Kiviat and Stevens, 2001). Under normal conditions, therefore, the water of the Hudson River in the project vicinity is brackish. The water of the Pocantico River is also brackish except, perhaps, during low tide when the fresh water from above the Philipsburg Manor dam exerts a greater influence. The tidal range in the project area is about three feet.

More than 150 species of fish, many introduced, are known to occur within the tidal portion of the Hudson River and its tidal tributaries. These species include freshwater or diadromous (migratory between fresh and salt waters) forms and marine strays. Of these, about 80 are freshwater or diadromous forms and 50 occur regularly in nearshore (shallow water) areas (Smith, 1985). The nearshore fish community of the Hudson River is dynamic and changes on a daily, seasonal, and annual basis (Daniels, undated). Based on a 1990 survey, the two dominant resident species were spottail shiner (*Notropis hudsonicus*) and white perch *(Morone americana*). During the summer, diadromous fish numbers dominate nearshore areas due to the presence of young-of-year fish including blueback herring (*Alosa aestivalis*), alewife (*A. pseudoharengus*), American shad (*A. sapidissima*), bay anchovy (*Anchoa mitchilli*), American eel (*Anguilla rostrata*), and striped bass (*Morone saxatilis*) (Daniels, undated).

During field studies of the project site by EcolSciences, Inc. in October 2003, banded killifish (*Fundulus diaphanus*) were observed in the wetland ditches and in the ponded water in the northeastern portion of the site.

The aquatic community of the tidal Hudson River also includes a variety of invertebrates, many of which constitute important food sources for the local fish and waterfowl populations. Invertebrates known from the tidal Hudson include jellyfish, copepods, sponges, segmented worms, snails, whelks, mussels, clams, crayfish, sand shrimps, crabs, mayfly and dragonfly nymphs, caddis fly larvae, and midges (Riverkeeper, 2003).

E. Threatened and Endangered Species

The NHP has a record of shortnose sturgeon (*Acipenser brevirostrum*), a State-endangered species, within the lower Hudson River from the Battery in New York City at its junction with Upper New York Bay, upstream to the Federal Dam in Troy and a portion of Schodack Creek (see Appendix B). The shortnose sturgeon is restricted in range to the Atlantic seaboard in North America. It occurs in estuaries and large coastal rivers. The shortnose sturgeon is semi-anadromous. Each year, between April and May, adult sturgeon migrate up the Hudson River from their mid-Hudson overwintering area to spawn in freshwater sites north of Coxackie (Stegemann, 1999).

The NHP also has records for three rare plants that may be on or in the immediate vicinity of the site: rattlebox (*Crotalaria sagittalis*) – State-endangered; shrubby St. John's-wort (*Hypericum prolificum*) – State-threatened; Virginia false gromwell (*Onosmodium virginianum*) – State-endangered. It is important to note that the existing records for these species occurred in the 1890s. During field studies of the site by EcolSciences, these species were not observed on the site and are not expected to occur on the site due to the site being largely covered by impervious surfaces.

The NHP identifies one other rare species (though not listed as State-endangered, threatened, or of special concern) as being on or in the immediate vicinity of the site – Kentucky warbler (*Oporormis formosus*). While this species may occasionally pass through the study area during migration, it would not typically breed in the area due to the lack of suitable habitat (i.e., dense underbrush of woodlands).

III. FUTURE CONDITIONS WITHOUT THE PROJECT

Future No Action conditions would result within the former General Motors Assembly Plant site if the proposed redevelopment plan were not implemented. This condition assumes that the existing use of the property by the Village (i.e., for DPW vehicle and materials storage and for event parking) would continue unchanged. It also assumes that no site remediation activities are implemented, except for remediation needed for closure of the oil spill associated with the former 10,000 gallon heating oil UST located in the north-north central portion of the West Parcel. Based on these assumptions, the vegetative community within the site would continue to expand and to mature in areas not being used by the Village. As the paved areas and concrete slabs break up further due to weathering and plant growth, they would eventually be overgrown by woodland plant communities, though this succession would take decades. Use of the site as wildlife habitat would likely increase as a result.

Existing conditions within the adjacent parklands would likely remain unchanged should the project not be implemented. Recreational facilities within Devries Park could not be expanded as currently proposed because there is not enough available land without the use of the East Parcel. The expansion of public waterfront access from Kingsland Point Park to the lighthouse and further downriver to the proposed Ichabod's Landing development would not proceed as currently planned.

IV. PROBABLE IMPACTS OF THE PROPOSED PROJECT

The West Parcel and South Parcel are currently being proposed for redevelopment by Roseland/Sleepy Hollow, LLC with a mix of commercial, residential, and park uses that will collectively be known as Lighthouse Landing at Sleepy Hollow. The East Parcel will be redeveloped for Village of Sleepy Hollow public works and park uses. Implementation of the proposed project should not adversely affect the limited ecological resources of the project site. The site contains the remnants of the former General Motors Assembly Plant and has a long history of prior development. Its current state is actually an interim condition following the demolition of the assembly plant. Therefore, the ecological resources of the site are severely limited as most of the site has experienced significant disturbance related to the previous development. As part of the redevelopment plan, the majority of the site will be modified from its existing condition. In conjunction with the compilation of existing information and field studies, analyses of the potential impacts of the proposed plan upon the site's ecological resources have been conducted and are included in this section. In addition to site-specific impacts, construction and operation/maintenance of the project have the potential to indirectly affect ecological resources within the adjacent parklands and Hudson and Pocantico Rivers. These potential impacts and mitigating measures are discussed in this section.

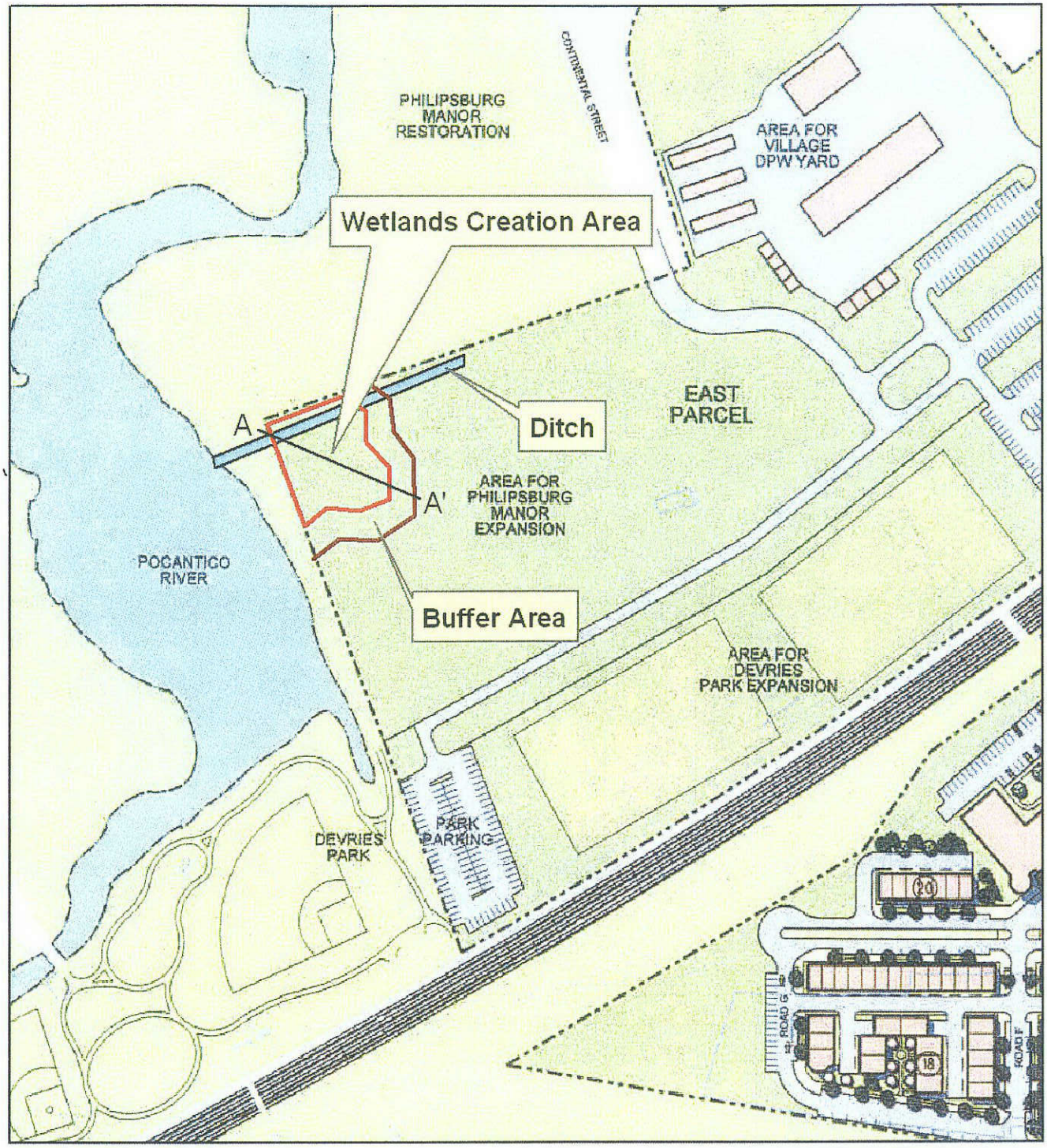
A. Wetlands

Jurisdictional wetlands within the project site are restricted to the series of interconnected man-made stormwater ditches located within the East Parcel. These wetlands are of low ecological function and quality in part due to the dominance of exotic and weedy plants and their stormwater management function. The current redevelopment plan proposes that this portion of the East Parcel will be redeveloped for play fields. This will necessitate the filling of these approximately 0.23 acres of wetland ditches, with culverts serving their drainage function. Preliminary plans call for the Village of Sleepy Hollow to consolidate its Department of Public Works (DPW) vehicle and materials storage within a 5± acre compound on existing pavement in the southern portion of the East Parcel. A new Metro-North train station would be constructed along the tracks in this area, as would new parking for 400 vehicles. The Village would construct additional recreational facilities within northern portion of the East Parcel adjacent to Devries Park. In addition, the possible expansion of the Philipsburg Manor Restoration may be implemented within the East Parcel. Existing pavement would be removed to facilitate the construction of these facilities.

The area of the East Parcel proposed for wetlands mitigation (see Figure 3) is largely covered by asphalt pavement and is currently inundated by the high tides of the Pocantico River. A ditch currently connects this area to the river. The pavement would be removed from the mitigation area and within a 30-foot wide buffer. Both the mitigation area and the buffer would be overexcavated to allow the placement of one foot of topsoil. The final grade of the mitigation area would be based on the mean high water elevation, which will allow for the inundation of the area (see Figure 4). The mean high water elevation will be obtained through the establishment of tidal benchmarks in the site vicinity.

The wetland creation area would encompass 0.46 acres, whereas the 30-foot wide buffer would encompass an additional 0.23 acres, for a total of 0.69 acres of mitigation. The mitigation area and adjacent buffer would be planted with a variety of native herbaceous and woody species. Herbaceous plants, such as pickerelweed (*Pontederia cordata*), arrowleaf (*Peltandra virginica*), arrowhead (*Saggitaria latifolia*), bulrush (*Scirpus americanus*), yellow iris (*Iris pseudacorus*), and rose mallow (*Hibiscus moscheutus*), would be planted within the interior of the mitigation area. Sapling trees and shrubs, which are less tolerant of tidal inundation, such as red maple (*Acer rubrum*), black willow (*Salix nigra*), green ash (*Fraxinus pensylvanica*), American sycamore (*Platanus occidentalis*), alder (*Alnus serrulata*), silky dogwood (*Cornus amomum*), and graystem dogwood (*Cornus racemosa*), would be planted along the perimeter of the wetland creation area. The buffer area would be planted with a mix of upland grasses and herbs, interspersed with sapling trees and shrubs such as red oak (*Quercus rubra*), black oak (*Q. velutina*), and white oak (*Q. alba*), American sycamore, red maple, eastern red cedar (*Juniperus virginiana*), tulip tree (*Liriodendron tulipifera*), graystem dogwood, arrowwood (*Viburnum dentatum*), and bayberry (*Myrica pensylvanica*). These selected species will provide food and cover for a variety of wildlife species.

The new wetlands would contribute to the functions of the existing wetlands and would be of a higher quality than the wetland ditches. The provision of a vegetated buffer would protect and contribute to the quality of the new wetlands, as well as the existing wetlands. The wetlands creation would also provide a 2:1 replacement ratio for the filling of the ditches, and an overall 3:1 mitigation ratio.



N

CONCEPTUAL WETLANDS MITIGATION PLAN

Lighthouse Landing
Redevelopment Project
Village of Sleepy Hollow
Westchester County, New York

Base Map: Divney-Tung-Schwalbe, 2004

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

Date: 8/31/04
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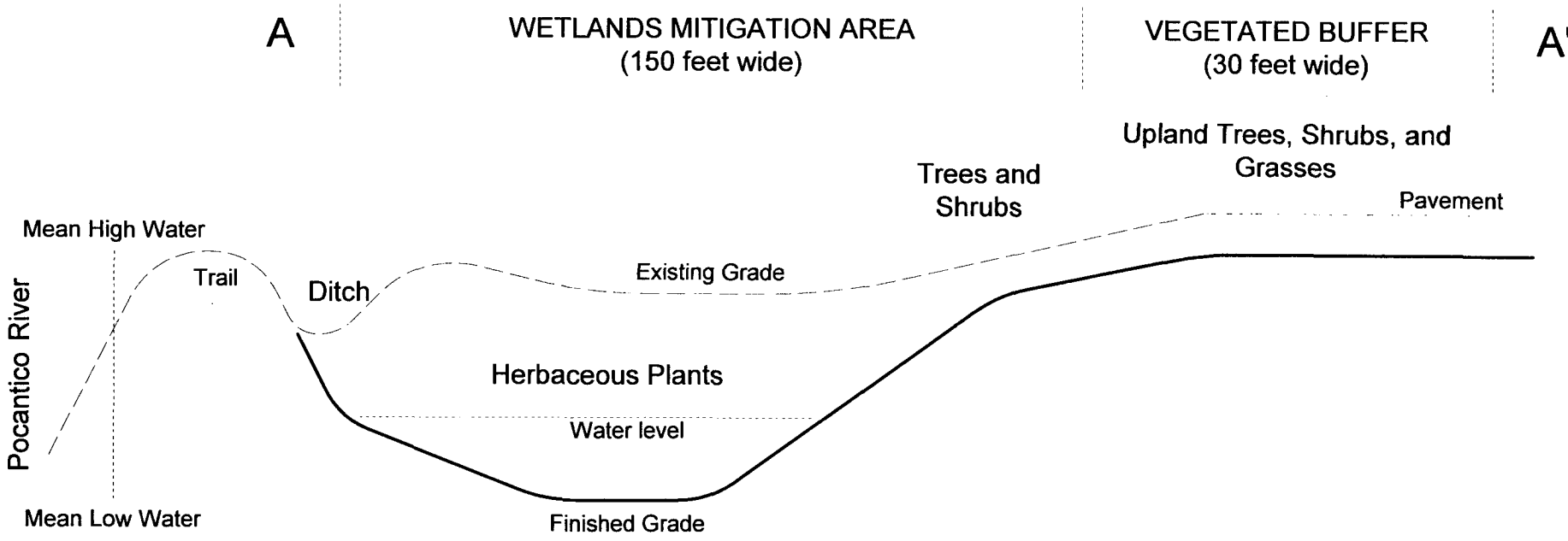

Wetlands Mitigation Plan Cross-section

Lighthouse Landing
Redevelopment Project
Village of Sleepy Hollow
Westchester County, New York

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

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B. Plant Communities

1. Former GM Assembly Plant

With the exception of the Ditch/Artificial Intermittent Stream and Oak-Tulip Tree Forest delineated on the East Parcel, the entirety of the project site has been identified as Urban Vacant Lot. Due to the presence of extensive pavements and concrete pads remaining from the demolished plant facilities, the existing plant community is restricted to scattered plants and small strips of vegetation composed of weedy or non-native species. The ecological value of this plant community is extremely low and its loss would not be significant. Redevelopment of the site would increase the value of portions of the site through the establishment of new native vegetation within portions of the site in conjunction with the construction of recreational facilities within the East Parcel, the possible expansion of the Philipsburg Manor Restoration, and the extension of waterfront parkland along the Hudson River within the West Parcel. Landscaping will also be provided within the interior of the commercial/residential development along roadways and within public spaces.

2. Adjacent Parklands

Existing plant communities within Devries Park, Kingsland Point Park, and Philipsburg Manor Historic Site would not be adversely impacted by the proposed project. They would actually be enhanced by the provision of new landscaping with the expansion of Devries Park recreational facilities and Philipsburg Manor within the East Parcel and the expansion of waterfront parkland within the West Parcel along the Hudson River.

C. Wildlife Communities

1. Former GM Assembly Plant

The Urban Vacant Lot habitat provided on the project site is of very low value to wildlife communities. Cover and food are both in extremely short supply within the site. The fact that a considerable number of animal species were observed on the site is a testament to the resilience of many animals to survive under adverse conditions. Of note is that the availability of the site for use by wildlife is only an interim condition. For the better part of the twentieth century, the site has been subject to intensive industrial use and, as such, was unavailable for use by wildlife. Only since the demolition of GM's facilities in the late-1990s has the site been available for wildlife use.

The expansion of recreational facilities and waterfront parkland under the redevelopment plan as described in the previous section would enhance wildlife habitat within portions of the

site. Thus, the redevelopment of the site would not adversely impact wildlife populations. A possible exception may be the loss of foraging habitat to hawks and owls. Under existing conditions, hawks and owls may hunt for mice and other small mammals across the extensive open area of the site. Though this activity was not documented, two hawks were observed on and adjacent to the site; a northern harrier was observed for a brief period over the site, though not hunting; and a red-tail hawk was observed within the forest in Devries Park. Notwithstanding, the loss of this habitat should not result in significant adverse impacts to hawks and owls, because the existing availability of the site for foraging is only an interim condition since the demolition of the industrial buildings.

In addition, a variety of birds may currently use the site that would otherwise not do so because of the relative isolation of portions of the site. For example, two snow buntings and a greater yellowlegs were observed on the pavement of the site presumably drinking from puddles of water. Individuals of other species may also use the site for this purpose or for temporary loafing or roosting. Upon redevelopment, the site would not be available for this purpose. Loss of this opportunistic use of the site is not anticipated to be significant to bird populations, because the existing availability of the site for these activities is only an interim condition since the demolition of the industrial buildings..

Local populations of certain bird species that are extremely tolerant of human activities may increase following redevelopment of the site due to increased cover and food supply. These species include house sparrow, house finch, starling, robin, rock dove, mourning dove, and mockingbird. Certain small mammals may also increase in numbers including gray squirrel and chipmunk. Reptile and amphibian numbers are not expected to change, because under existing conditions the site does not provide significant habitat for these species.

2. Adjacent Parklands

Existing wildlife communities within Devries Park, Kingsland Point Park, and Philipsburg Manor Historic Site would not be adversely impacted by the proposed project. The existing condition of the site is only an interim condition since the cessation of industrial activities. The proposed residential, commercial, and recreation use would be less intrusive than the former industrial activities. Existing wildlife communities would actually be enhanced by the provision of new landscaping with the expansion of Devries Park recreational facilities and Philipsburg Manor within the East Parcel and the expansion of waterfront parkland within the West Parcel along the Hudson River.

D. Aquatic Communities

The construction of the proposed project is not expected to have significant impacts on aquatic communities of the Hudson and Pocantico Rivers. Potential short-term impacts on water quality are associated with soil loss and sedimentation during construction activities. Soil loss can increase suspended material in the water column and increase turbidity. However, soil loss and associated impacts to surface waters would be minimized by strict adherence to the measures specified in the Soil Erosion and Sediment Control Plan and are therefore not expected to be significant to aquatic communities.

The operation of the new development has the potential for impacts to aquatic communities as a result of the filling of the man-made ditches and through the discharge of stormwater off paved and landscaped surfaces to surface waters. The wetlands in the ditches are of low quality in part due to their past use for stormwater purposes and due to the presence of exotic plants or plants of low value including common reed, purple loosestrife, and cattail. Common constituents in stormwater runoff off roadways and parking lots include oils and grease, heavy metals, salt, and sediment. Common constituents in stormwater runoff off landscaped areas include nutrients and pesticides. The proposed plan provides for the construction of a stormwater management system that collects stormwater off paved and landscaped surfaces and passes it through sediment catchment chambers to filter the stormwater prior to discharging it through three existing outfalls to the Hudson River. In addition, since under existing conditions most of the site is covered by impervious surfaces and that stormwater runoff is currently uncontrolled within the site, the reduction in the amount of impervious surfaces under the proposed plan and the controlling of stormwater runoff, stormwater runoff associated with the proposed project is not expected to result in a significant adverse impact to aquatic communities of the Hudson River. Overall, therefore, the project's impacts to aquatic communities would not be significant.

E. Threatened and Endangered Species

There are no known records of threatened or endangered plant or animal species within the project site or adjacent parklands and suitable habitat for these species is not present. However, the NHP has a record of shortnose sturgeon, a State-endangered species, within the lower Hudson River. The potential for impact to this species would be from uncontrolled and unfiltered stormwater flowing into the river. With the implementation of the proposed stormwater management plan, the redevelopment project would not result in a significant adverse impact to this species.

V. REFERENCES

Andrle, Robert F. and Janet R. Carroll, 1988. The Atlas of Breeding Birds in New York State, 550 pp., Cornell University Press.

Audubon, 2004. 103rd December 22, 2002 Christmas Bird Count Bronx-Westchester Region, New York, United States http://audubon.birdsource.org

Daniels, Robert A., undated. Nearshore Fish Assemblage of the Tidal Hudson River. NY State Museum Biological Survey Laboratory http://biology.usgs.gov/s+t/noframe/m4060.htm

Environmental Laboratory, 1987. Corps of Engineers Wetlands Delineation Manual.

Federal Interagency Committee for Wetland Delineation. 1989. Federal Manual for Identifying and Delineating Jurisdictional Wetlands. U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, and U.S.D.A. Soil Conservation Service, Washington, D.C. Cooperative technical publication. 76 pp. plus appendices.

Great Backyard Bird Count Results 1998-2003 Tarrytown, New York http://cornell.birdsource.org

Kiviat, Erik and Gretchen Stevens of Hudsonia, Ltd.. 2001. Biodiversity Assessment Manual for the Hudson River Estuary Corridor. 508 pp., NYSDEC.

New York Department of Environmental Conservation (DEC), NYS Breeding Bird Atlas 1980-1985 Block 5954A http://www.dec.state.ny.us/website/dfwmr/bba/index.html

New York DEC, New York State Amphibian and Reptile Atlas Project 1990-1999. http://dec.state.ny.us/website/dfwmr/wildlife/herp/index.html

New York DEC, Division of Fish, Wildlife, and Marine Resources. 1985, revised 2003. Checklist of the Amphibians, Reptiles, Birds, and Mammals of New York, Including Their Legal Status.

New York Natural Heritage Program . 2002. Ecological Communities of New York State Second Edition - Draft. G.J. Edinger, D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero editors. 136 pp. New York State Department of Environmental Conservation.

New York Natural Heritage Program . 1990. Ecological Communities of New York State. Carol Reschke editor. 96 pp. New York State Department of Environmental Conservation.

New York State Freshwater Wetlands Map, Map 10 of 14 White Plains, U.S.G.S. Quadrangle.

Riverkeeper, 2003. Local Ecology – Invertebrates
http://riverkeeper.org/resources_ecology_inverts.php

Smith, C.L., 1985. Inland Fishes of New York State. Department of Environmental Conservation, Albany. 522 pp

Stegemann, E.C., 1999. Sturgeon – the King of Freshwater Fishes. Conservationist. August 1994 and updated June 1999.

ATTACHMENT A

Vegetative Species List

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

Vegetation Identified Within and Adjacent to the
Former General Motors Corporation Tarrytown Plant
Village of Sleepy Hollow
Westchester County, New York

SCIENTIFIC NAME	COMMON NAME	GM Plant	Adjacent Parks
TREES			
Acer negundo	Boxelder	X	X
Acer platanoides	Norway maple		X
Acer rubrum	Red maple		X
Acer saccharum	Sugar maple		X
Ailanthus altissima	Tree-of-heaven	X	X
Betula lenta	Black birch		X
Betula populifolia	Gray birch		X
Fraxinus americana	White ash		X
Juniperus virginiana	Eastern red cedar		X
Paulownia tomentosa	Princess tree		X
Picea abies	Norway spruce		X
Pinus strobus	White pine		X
Platanus occidentalis	Sycamore		X
Populus deltoides	Cottonwood	X	X
Prunus serotina	Black cherry	X	X
Quercus rubra	Northern red oak		X
Quercus velutina	Black oak		X
Robinia pseudoacacia	Black locust	X	X
Salix babylonica	Weeping willow		X
Salix nigra	Black willow	X	X
Tsuga canadensis	Eastern hemlock		X
Ulmus americana	American elm	X	X
SHRUBS/VINES			
Alnus serrulata	Smooth alder	X	X
Celastrus scandens	Bittersweet	X	
Forsythia	Forsythia		X
Lonicera japonica	Japanese honeysuckle	X	X
Rhamnus cathartica	Buckthorn	X	
Rosa multiflora	Multiflora rose	X	X
Rubus phoenicolasius	Wineberry	X	X
Salix discolor	Pussy willow	X	X
Toxicodendron radicans	Poison ivy	X	X
Vitis aetivalis	Summer grape	X	
HERBS			
Amaranthus retroflexus	Pigweed	X	
Artemisia biennis	Biennial mugwort	X	X
Asclepias syriaca	Common milkweed	X	
Cyperus esculentus	Nut sedge	X	

SCIENTIFIC NAME	COMMON NAME	GM Plant	Adjacent Parks
Daucus carota	Queen Anne's lace	X	
Erigeron annuus	Daisy fleabane	X	
Eupatorium sp.	Thoroughwort	X	
Juncus effusus	Soft rush	X	
Juncus tenuis	Path rush	X	
Lythrum salicaria	Purple loosestrife	X	
Oenothera biennis	Evening primrose	X	
Panicum virgatum	Switchgrass	X	
Phragmites australis	Common reed	X	X
Polygonum cuspidatum	Japanese knotweed	X	X
Solidago sempervirens	Seaside goldenrod	X	
Solidago sp.	Goldenrod	X	X
Verbascum thapsus	Woolly mullein	X	

ATTACHMENT B

Correspondence

STATE OF NEW YORK
DEPARTMENT OF STATE
41 STATE STREET
ALBANY, NY 12231-0001

GEORGE E. PATAKI
GOVERNOR

RANDY A. DANIELS
SECRETARY OF STATE

Karin Tekel
EcolSciences, Inc.
75 Fleetwood Drive, Suite 250
Rockaway, New Jersey 07866

November 18, 2003

Karin:

Attached is the Significant Habitat information you requested. The Piermont Marsh is actually in Rockland County but is downstream of the proposed project area and hence is the Significant Habitat most relevant to this project. Please call me at (518) 473 - 8359 if you have any questions.

Jaime Reppert,
Coastal Resource Specialist

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NOV 24 2003
ECOLSCIENCES, INC.

SIGNIFICANT COASTAL FISH AND WILDLIFE HABITATS PROGRAM
A PART OF THE NEW YORK COASTAL MANAGEMENT PROGRAM

BACKGROUND

New York State's Coastal Management Program (CMP) includes a total of 44 policies which are applicable to development and use proposals within or affecting the State's coastal area. Any activity that is subject to review under Federal or State laws, or under applicable local laws contained in an approved local waterfront revitalization program will be judged for its consistency with these policies.

Once a determination is made that the proposed action is subject to consistency review, a specific policy aimed at the protection of fish and wildlife resources of statewide significance applies. The specific policy statement is as follows: "Significant coastal fish and wildlife habitats will be protected, preserved, and, where practical, restored so as to maintain their viability as habitats." The New York State Department of Environmental Conservation (DEC) evaluates the significance of coastal fish and wildlife habitats, and following a recommendation from the DEC, the Department of State designates and maps specific areas. Although designated habitat areas are delineated on the coastal area map, the applicability of this policy does not depend on the specific location of the habitat, but on the determination that the proposed action is subject to consistency review.

Significant coastal fish and wildlife habitats are evaluated, designated and mapped under the authority of the Coastal Management Program's enabling legislation, the Waterfront Revitalization and Coastal Resources Act (Executive Law of New York, Article 42). These designations are subsequently incorporated in the Coastal Management Program under authority provided by the Federal Coastal Zone Management Act.

This narrative, along with its accompanying map, constitutes a record of the basis for this significant coastal fish and wildlife habitat's designation and provides specific information regarding the fish and wildlife resources that depend on this area. General information is also provided to assist in evaluating impacts of proposed activities on parameters which are essential to the habitat's values. This information is to be used in conjunction with the habitat impairment test found in the impact assessment section to determine whether the proposed activities are consistent with the significant coastal habitats policy.

COASTAL FISH & WILDLIFE HABITAT RATING FORM

Name of Area: Piermont Marsh

Designated: November 15, 1987

County: Rockland

Town(s): Orangetown

7½' Quadrangle(s): Nyack, NY

Score	Criterion
25	Ecosystem Rarity (ER) This is the only large, undeveloped, predominantly brackish marsh on the Hudson River; rare in the major ecological region.
16	Species Vulnerability (SV) Diamondback terrapin (SC) regularly use the area; least bittern (SC) and sedge wren (SC) reported nesting but not adequately documented.
15	Human Use (HU) Part of the Hudson River Estuarine Sanctuary, providing opportunities for fish and wildlife related research and education, of regional significance. Popular birding area. Additive division: 9 + 9 / 2 + 4 / 4 = 15
6	Population Level (PL) Concentrations of various fish and wildlife species are unusual in the lower Hudson Valley; geometric mean: $(4 \times 9)^{\frac{1}{2}} = 6$.
1.2	Replaceability (R) Irreplaceable.

SIGNIFICANCE VALUE = [(ER + SV + HU + PL) X R]

= 74

DESIGNATED HABITAT: PIERMONT MARSH

HABITAT DESCRIPTION:

Piermont Marsh is located on the west side of the Hudson River, at the southern edge of the Village of Piermont, in the Town of Orangetown, Rockland County (7.5' Quadrangle: Nyack, N.Y.). The fish and wildlife habitat is an approximate 725 acre area, encompassing a large, intertidal, predominantly brackish marsh, extensive tidal shallows (less than 6 feet deep below mean low water), and the mouth of Sparkill Creek. The marsh area is dominated by narrow-leaved cattail and common reed, with lesser amounts of saltmarsh cordgrass, saltmeadow cordgrass, saltgrass, and purple loosestrife; sparse growths of pondweeds are present in the shallows. Sparkill Creek and Crumkill Creek meander through the marsh, but account for a very limited amount of open water.

Piermont Marsh is bounded on the north by a mile-long earthen pier, constructed in 1839 as the eastern terminus of the Erie Railroad. The western end of the pier is occupied by several factories, while the eastern end is a park area owned by the Village of Piermont. Most of Piermont Marsh and the land area to the west (predominantly steep, undeveloped, forestland) are within Tallman Mountain State Park, owned by the Palisades Interstate Park Commission. The south and east sides of the area open broadly to the Hudson River. The NYSDEC owns an approximate 70 acre parcel at the north end of the marsh.

FISH AND WILDLIFE VALUES:

Piermont Marsh is one of the largest, undeveloped, wetland complexes on the Hudson River. It is the only sizeable intertidal brackish marsh within the Hudson estuary, and is exemplary of this ecological community type. For these reasons, Piermont Marsh has been designated as one of four sites comprising the Hudson River Estuarine Sanctuary, dedicated to environmental research and education.

Piermont Marsh is a productive wetland area, with minimal human disturbance. Consequently, it provides favorable habitats for a variety of fish and wildlife species. Probable or confirmed breeding bird species in the area include pied-billed grebe, green-backed heron, mallard, black duck, gadwall, wood duck, American woodcock, marsh wren, red-winged blackbird, and swamp sparrow. Other species that have been reported at Piermont, but were not documented breeding there since at least 1980, include American bittern, least bittern (SC), Virginia rail, sora, king rail, fish crow, and sedge wren (SC). Concentrations of herons, waterfowl, and shorebirds occur in the tidal flats and shallows during spring and fall migrations (March-April and September-November, respectively), but the extent of use by these birds has not been documented.

Other resident wildlife species in the area include muskrat, mink, raccoon, diamondback terrapin (SC), snapping turtle, and northern water snake.

Sparkill Creek and Crumkill Creek provide limited spawning and nursery habitats for a variety of anadromous and resident freshwater fishes. Species found in the area include alewife, blueback herring, white perch, striped bass, banded killifish, and mummichog. Fiddler crabs are abundant in the marsh, and blue claw crabs occur regularly in the shallows.

The diversity and abundance of fish and wildlife species at Piermont Marsh are unusual in the lower Hudson River. Opportunities for birdwatching, fishing, and informal nature study, especially from Piermont Pier, attract a substantial number of Rockland County residents to the area. More importantly, however, is that designation of Piermont Marsh as an Estuarine Sanctuary will focus research and education activities in the Hudson Valley on this area.

IMPACT ASSESSMENT:

A **habitat impairment test** must be met for any activity that is subject to consistency review under federal and State laws, or under applicable local laws contained in an approved local waterfront revitalization program. If the proposed action is subject to consistency review, then the habitat protection policy applies, whether the proposed action is to occur within or outside the designated area.

The specific **habitat impairment test** that must be met is as follows.

> In order to protect and preserve a significant habitat, land and water uses or development shall not be undertaken if such actions would:
>
> destroy the habitat; or,
>
> significantly impair the viability of a habitat.

Habitat destruction is defined as the loss of fish or wildlife use through direct physical alteration, disturbance, or pollution of a designated area or through the indirect effects of these actions on a designated area. Habitat destruction may be indicated by changes in vegetation, substrate, or hydrology, or increases in runoff, erosion, sedimentation, or pollutants.

Significant impairment is defined as reduction in vital resources (e.g., food, shelter, living space) or change in environmental conditions (e.g., temperature, substrate, salinity) beyond the tolerance range of an organism. Indicators of a significantly impaired habitat focus on ecological alterations and may include but are not limited to reduced carrying capacity, changes in community structure (food chain relationships, species diversity), reduced productivity and/or increased incidence of disease and mortality.

The tolerance range of an organism is not defined as the physiological range of conditions beyond which a species will not survive at all, but as the ecological range of conditions that supports the species population or has the potential to support a restored population, where practical. Either the loss of individuals through an increase in emigration or an increase in death rate indicates that the tolerance range of an organism has been exceeded. An abrupt increase in death rate may occur as an environmental factor falls beyond a tolerance limit (a range has both upper and lower limits). Many environmental factors, however, do not have a sharply defined tolerance limit, but produce increasing emigration or death rates with increasing departure from conditions that are optimal for the species.

The range of parameters which should be considered in appplying the habitat impairment test include but are not limited to the following:

1. physical parameters such as living space, circulation, flushing rates, tidal amplitude, turbidity, water temperature, depth (including loss of littoral zone), morphology, substrate type, vegetation, structure, erosion and sedimentation rates;
2. biological parameters such as community structure, food chain relationships, species diversity, predator/prey relationships, population size, mortality rates, reproductive rates, meristic features, behavioral patterns and migratory patterns; and,
3. chemical parameters such as dissolved oxygen, carbon dioxide, acidity, dissolved solids, nutrients, organics, salinity, and pollutants (heavy metals, toxics and hazardous materials).

Although not comprehensive, examples of generic activities and impacts which could destroy or significantly impair the habitat are listed below to assist in applying the habitat impairment test to a proposed activity.

It is essential that any potential impacts on Piermont Marsh be evaluated with respect to the research and management program of the Estuarine Sanctuary, and the need to maintain natural or controlled experimental conditions. Any activity that would substantially degrade water quality, increase turbidity or sedimentation, reduce freshwater inflows, or alter tidal fluctuations in Piermont Marsh, would result in significant impairment of the habitat. Discharges of sewage, stormwater runoff, or industrial wastewater, could severely impair the quality of this productive wetland.

Elimination of marsh or shallow water areas, through dredging, filling, or bulkheading, would result in a direct loss of valuable fish and wildlife habitats. Activities that would subdivide this relatively large, undisturbed area into smaller fragments should be restricted.

However, limited habitat management activities, including expansion of open water areas in the marsh, may be designed to maintain or enhance populations of certain fish or wildlife species. Existing undisturbed areas bordering Piermont Marsh should be maintained to provide cover, perch sites and buffer zones; significant human encroachment into adjacent areas could adversely affect certain species of wildlife.

Strict management of public access may be necessary to ensure that the various human uses of fish and wildlife resources in the area are compatible.

KNOWLEDGEABLE CONTACTS:

Tom Hart
N.Y.S. Department of State
Division of Coastal Resources &
Waterfront Revitalization
162 Washington Avenue
Albany, NY 12231
Phone: (518) 474-6000

Glenn Cole, Wildlife Manager
or Wayne Elliot, Fisheries Manager
or Jack Isaacs, Environmental Protection Biologist
NYSDEC - Region 3
21 So. Putt Corners Road
New Paltz, NY 12561
Phone: (914)255-5453

Elizabeth Blair
Hudson River Estuarine Research Reserve
Bard College
Annandale, NY 12057
Phone: (914) 758-9153

William Van Cura
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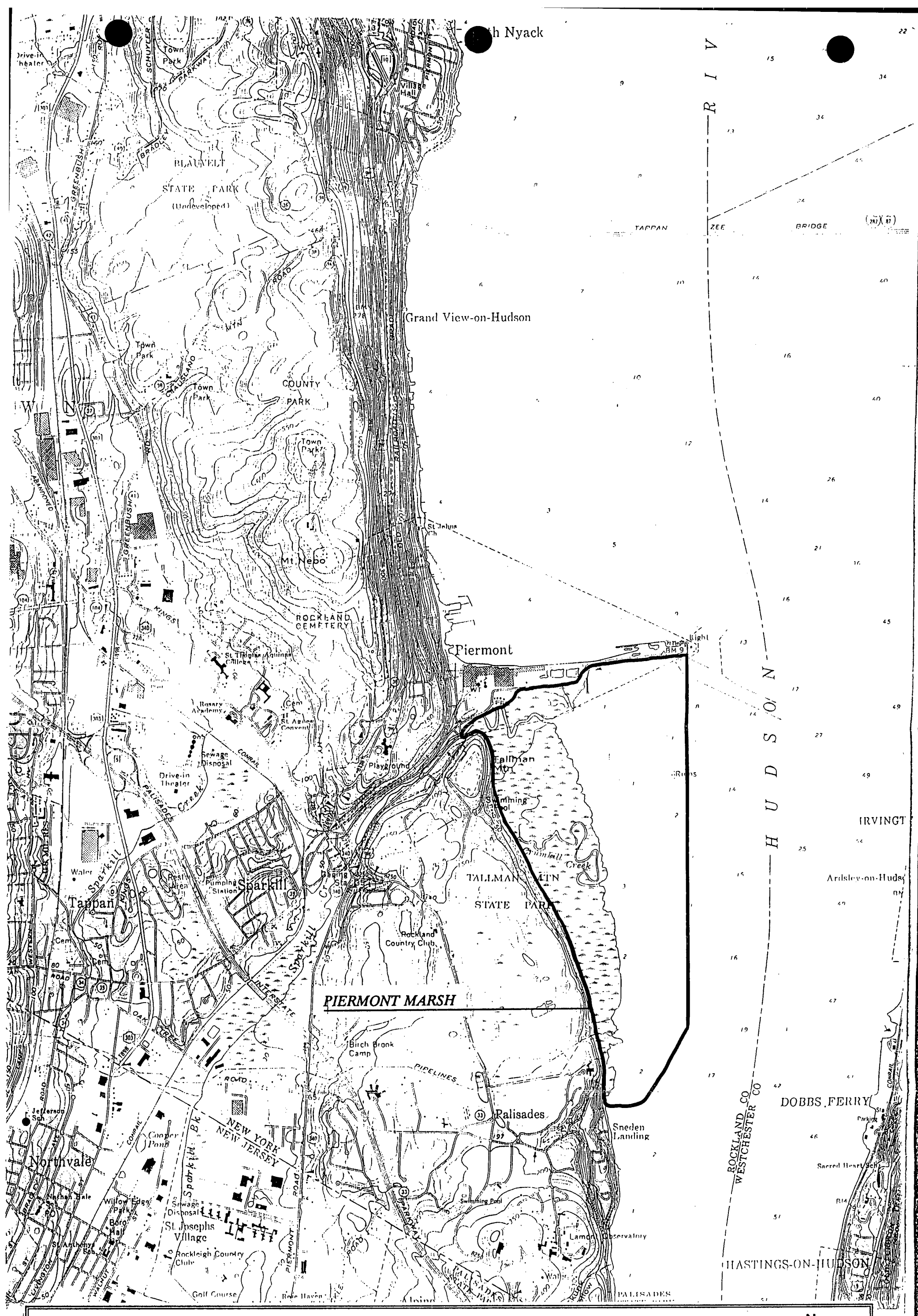
Piermont, NY 10968
Phone: (914)359-4639

Emilio Di Francesco, Environmental Aide
Town of Orangetown
Town Hall
Orangeburg, NY 10962
Phone: (914) 359-5100

NYSDEC Information Services
700 Troy-Schenectady Road
Latham, NY 12110
Phone: (518)783-3932

SIGNIFICANT COASTAL FISH AND WILDLIFE HABITATS

Piermont Marsh



New York State Department of State Division of Coastal Resources and Waterfront Revitalization

Prepared by T. Hart and G. Capobianco September 1990

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
Patuxent Wildlife Research Center
11510 American Holly Drive
Laurel, Maryland 20708-4017
26 November 2003

Karin Tekel
Environmental Scientist
EcolSciences, Inc.
75 Fleetwood Drive
Suite 250
Rockaway, NJ 07866

Dear Ms. Tekel:

Thank you for your letter of 13 Nov 2003 regarding Christmas Bird Count data for New York. We have some analyses on our website, at:

http://www.mbr-pwrc.usgs.gov/bbs/cbc.html

You may be able to obtain some analyses using the clickable map at that site. However, I have not done any recent analyses of those data, and I refer inquiries to the BirdSource website for all CBC data. They have the current data, and some analytical capabilities. While we hope to do more analyses of these data, it will all be done in conjunction with the National Audubon Society, and they are the best source of data and other information.

I hope these comments are of use to you.

Sincerely,

John Sauer

John R. Sauer
Wildlife Biologist

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DEC 0 1 2003
ECOLSCIENCES, INC.

New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **FAX:** (518) 402-8925
Website: www.dec.state.ny.

Erin M. Crotty
Commissioner

December 10, 2003

RECEIVED
DEC 11 2003
ECOLSCIENCES, INC.

Karin Tekel
EcolSciences, Inc
75 Fleetwood Dr, Suite 250
Rockaway, NJ 07866

Dear Ms. Tekel:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for the proposed Re-development of the former General Motors Corp. Plant site on Beekman Avenue, site as indicated on the map you provided, located in the Village of Sleepy Hollow, Town of Mount Pleasant, Westchester County.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. The information contained in this report is considered sensitive and may not be released to the public without permission from the New York Natural Heritage Program.

The presence of rare species may result in this project requiring additional permits, permit conditions, or review. For further guidance, and for information regarding other permits that may be requi red under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,
Heidi Krahling
Heidi J. Krahling, Information Services
NY Natural Heritage Program

Encs.
cc: Reg. 3, Wildlife Mgr.
Reg. 3, Fisheries Mgr.

Natural Heritage Report on Rare Species and Ecological Communities

Prepared 8 December 2003 by NY Natural Heritage Program, NYS DEC, Albany, New York

This report contains SENSITIVE information that should be treated in a sensitive manner -- Please see cover letter. Refer to the Users' Guide for explanations of codes, ranks, and fields.
We do not always provide maps of locations of species most vulnerable to disturbance, nor of some records whose locations and/or extents are not precisely known or are too large to display.

* County
** Town

Scientifc Name, COMMON NAME, & Group Name	NY Legal Status, Heritage Ranks, & Federal Status	EO Rank & Last Seen	Detailed Location	General Habitat and Quality	Office Use
* COLUMBIA, PUTNAM, RENSSELAER, ROCKLAND, ORANGE, NEW YORK, DU					
** MOUNT PLEASANT, SAUGERTIES, BETHLEHEM, CITY OF RENSSELAER, CITY OF NEW YORK, FISHKILL, CITY OF NEW Y					
Acipenser brevirostrum SHORTNOSE STURGEON Fish	ENDANGERED G3 S1 LE		HUDSON RIVER The lower Hudson River from The Battery in New York City at its junction with Upper New York Bay, upstream to the Federal Dam in Troy and a portion of Schodack Creek.	A long tidal river representing the Lower Hudson River. The river constitutes the lower part of a 315 mile stream system. It is fed upstream by two large main channel streams, which provide 80% of the freshwater input, and numerous other smaller stre	4107368 BOF
* WESTCHESTER					
** GREENBURGH, MOUNT PLEASANT					
Oporornis formosus KENTUCKY WARBLER Bird	PROTECTED G5 S2	E 1980	TARRYTOWN [Tarrytown?].		4107317
** MOUNT PLEASANT					
Crotalaria sagittalis RATTLEBOX Vascular Plant	ENDANGERED G5 S1	F 1896-08-04	NORTH TARRYTOWN Roadsides. North Tarrytown.	Roadsides. Most of North Tarrytown is developed and little habitat remains.	4107317

Natural Heritage Report on Rare Species and Ecological Communities

Prepared 8 December 2003 by NY Natural Heritage Program, NYS DEC, Albany, New York

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* **County**
** **Town**

Scientifc Name, COMMON NAME, & Group Name	NY Legal Status, Heritage Ranks, & Federal Status	EO Rank & Last Seen	Detailed Location	General Habitat and Quality	Office Use
* WESTCHESTER					
** MOUNT PLEASANT					
Hypericum prolificum SHRUBBY ST. JOHN'S-WORT Vascular Plant	THREATENED G5 S2	F 1898-07-21	NORTH TARRYTOWN Roadsides. North Tarrytown.	Roadsides. Most of North Tarrytown is developed and little habitat remains.	4107317
Onosmodium virginianum VIRGINIA FALSE GROMWELL Vascular Plant	ENDANGERED G4 S1	F 1896-06-02	NORTH TARRYTOWN North Tarrytown.	Most of North Tarrytown is developed and little habitat remains.	4107317

5 Records Processed

V = Exploitably vulnerable: listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the state if causal factors continue unchecked.
U = Unprotected; no state status.

NEW YORK STATE STATUS (communities): At this time there are no categories defined for communities.

FEDERAL STATUS (plants and animals): The categories of federal status are defined by the United States Department of the Interior as part of the 1974 Endangered Species Act (see Code of Federal Regulations 50 CFR 17). The species listed under this law are enumerated in the Federal Register vol. 50, no. 188, pp. 39526 - 39527.

(blank) = No Federal Endangered Species Act status.
LE = The element is formally listed as endangered.
LT = The element is formally listed as threatened.
E/SA = The element is treated as endangered because of similarity of appearance to other endangered species or subspecies.
PE = The element is proposed as endangered.
PT = The element is proposed as threatened.
C= The element is a candidate for listing.
(LE) = If the element is a full species, all subspecies or varieties are listed as endangered; if the element is a subspecies, the full species is listed as endangered.
(LE-LT) = The species is formally listed as endangered in part of its range, and as threatened in the other part; or, one or more subspecies or varieties is listed as endangered, and the others are listed as threatened.
(LT-C) = The species is formally listed as threatened in part of its range, and as a candidate for listing in the other part; or, one or more subspecies or varieties is listed as threatened, and the others are candidates for listing.
(LT-(T/SA)) = One or more subspecies or populations of the species is formally listed as threatened, and the others are treated as threatened because of similarity of appearance to the listed threatened subspecies or populations.
(PS) = Partial status: the species is listed in parts of its range and not in others; or, one or more subspecies or varieties is listed, while the others are not listed.

GLOBAL AND STATE RANKS (animals, plants, ecological communities and others): Each element has a global and state rank as determined by the NY Natural Heritage Program. These ranks carry no legal weight. The global rank reflects the rarity of the element throughout the world and the state rank reflects the rarity within New York State. Infraspecific taxa are also assigned a taxon rank to reflect the infraspecific taxon's rank throughout the world. ? = Indicates a question exists about the rank. Range ranks, e.g. S1S2, indicate not enough information is available to distinguish between two ranks.

GLOBAL RANK:
G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or very few remaining acres, or miles of stream) or especially vulnerable to extinction because of some factor of its biology.
G2 = Imperiled globally because of rarity (6 - 20 occurrences, or few remaining acres, or miles of stream) or very vulnerable to extinction throughout its range because of other factors.
G3 = Either rare and local throughout its range (21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted range (e.g. a physiographic region), or vulnerable to extinction throughout its range because of other factors.
G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
GH = Historically known, with the expectation that it might be rediscovered.
GX = Species believed to be extinct.

STATE RANK:
S1 = Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some factor of its biology making it especially vulnerable in New York State.
S2 = Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New York State.
S3 = Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.
S4 = Apparently secure in New York State.
S5 = Demonstrably secure in New York State.
SH = Historically known from New York State, but not seen in the past 15 years.
SX = Apparently extirpated from New York State.
SZ = Present in New York State only as a transient migrant.

SxB and SxN, where Sx is one of the codes above, are used for migratory animals, and refer to the rarity within New York State of the breeding (B) populations and the non-breeding populations (N), respectively, of the species.

TAXON (T) RANK: The T-ranks (T1 - T5) are defined the same way as the Global ranks (G1 - G5), but the T-rank refers only to the rarity of the subspecific taxon.
T1 through T5 = See Global Rank definitions above.
Q = Indicates a question exists whether or not the taxon is a good taxonomic entity.

OFFICE USE: Information for use by the Natural Heritage Program.

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USERS GUIDE TO NY NATURAL HERITAGE DATA

NATURAL HERITAGE PROGRAM: The Natural Heritage Program is an ongoing, systematic, scientific inventory whose goal is to compile and maintain data on the rare plants and animals native to New York State, and significant ecological communities. The data provided in the report facilitate site planning, conservation, and natural resource management and help to conserve the plants, animals and ecological communities that represent New York's natural heritage.

DATA SENSITIVITY: The data provided in the report are ecologically sensitive and should be treated in a sensitive manner. The report is for your in-house use and should not be released, distributed or incorporated in a public document without prior permission from the Natural Heritage Program.

NATURAL HERITAGE REPORTS (may contain any of the following types of data):

COUNTY NAME: County where the occurrence of a rare species or significant ecological community is located.
TOWN NAME: Town where the occurrence of a rare species or significant ecological community is located.
USGS 7 ½' TOPOGRAPHIC MAP: Name of 7.5 minute US Geological Survey (USGS) quadrangle map (scale 1:24,000).

SIZE (acres): Approximate acres occupied by the rare species or significant ecological community at this location. A blank indicates unknown size.
SCIENTIFIC NAME: Scientific name of the occurrence of a rare species or significant ecological community.
COMMON NAME: Common name of the occurrence of a rare species or significant ecological community.
ELEMENT TYPE: Type of element (i.e. plant, animal, significant ecological community, other, etc.)

LAST SEEN: Year rare species or significant ecological community last observed extant at this location.

EO RANK: Comparative evaluation summarizing the quality, condition, viability and defensibility of this occurrence. Use with LAST SEEN.
A-E = Extant: A=excellent, B=good, C=marginal, D=poor, E=extant but with insufficient data to assign a rank of A - D.
F = Failed to find. Did not locate species, but habitat is still there and further field work is justified.
H = Historical. Historical occurrence without any recent field information.
X = Extirpated. Field/other data indicates element/habitat is destroyed and the element no longer exists at this location.
? = Unknown.
Blank = Not assigned.

NEW YORK STATE STATUS (animals): Categories of Endangered and Threatened species are defined in New York State Environmental Conservation Law section 11-0535. Endangered, Threatened, and Special Concern species are listed in regulation 6NYCRR 182.5.
E = Endangered Species: any species which meet one of the following criteria:
1) Any native species in imminent danger of extirpation or extinction in New York.
2) Any species listed as endangered by the United States Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11.
T = Threatened Species: any species which meet one of the following criteria:
1) Any native species likely to become an endangered species within the foreseeable future in NY.
2) Any species listed as threatened by the U.S. Department of the Interior, as enumerated in the Code of the Federal Regulations 50 CFR 17.11.
SC = Special Concern Species: those species which are not yet recognized as endangered or threatened, but for which documented concern exists for their continued welfare in New York. Unlike the first two categories, species of special concern receive no additional legal protection under Environmental Conservation Law section 11-0535 (Endangered and Threatened Species).
P = Protected Wildlife (defined in Environmental Conservation Law section 11-0103): wild game, protected wild birds, and endangered species of wildlife.
U = Unprotected (defined in Environmental Conservation Law section 11-0103): the species may be taken at any time without limit; however a license to take may be required.
G = Game (defined in Environmental Conservation Law section 11-0103): any of a variety of big game or small game species as stated in the Environmental Conservation Law; many normally have an open season for at least part of the year, and are protected at other times.

NEW YORK STATE STATUS (plants): The following categories are defined in regulation 6NYCRR part 193.3 and apply to NYS Environmental Conservation Law section 9-1503.
E = Endangered Species: listed species are those with:
1) 5 or fewer extant sites, or
2) fewer than 1,000 individuals, or
3) restricted to fewer than 4 U.S.G.S. 7 ½ minute topographical maps, or
4) species listed as endangered by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.
T = Threatened: listed species are those with:
1) 6 to fewer than 20 extant sites, or
2) 1,000 to fewer than 3,000 individuals, or
3) restricted to not less than 4 or more than 7 U.S.G.S. 7 and ½ minute topographical maps, or
4) listed as threatened by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.
R = Rare: listed species have:
1) 20 to 35 extant sites, or
2) 3,000 to 5,000 individuals statewide.

continued on next page

7	Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga & Tompkins Telephone: (315) 426-7438	Ralph Manna NYS-DEC 615 Erie Blvd. West (Env.Permits Room 206) Syracuse, NY 13204-2400
7 (sub-office)	 Telephone: (607) 753-3095	Michael Barylski* NYS-DEC 1285 Fisher Avenue Cortland, NY 13045-1090
8	Chemung, Genesee, Livingston, Monroe, Ontario, Orleans, Schuyler, Seneca, Steuben, Wayne & Yates Telephone: (716) 226-5390	Peter Lent NYS-DEC 6274 East Avon Lima Road Avon, NY 14414-9519
9	Allegany, Cattaraugus, Chautauqua, Erie, Niagara & Wyoming Telephone: (716) 851-7165	Steve Doleski NYS-DEC 270 Michigan Avenue Buffalo, NY 14203-2999
9 (sub-office)	 Telephone: (716) 372-0645	Ken Taft* NYS-DEC 182 East Union, Suite 3 Allegany, NY 14706-1328

* Deputy Regional Permit Administrator

DIVISION OF ENVIRONMENTAL PERMITS

June 2001

REGION	COUNTIES	REGIONAL PERMIT ADMINISTRATORS
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ATTACHMENT C

Wildlife Species List

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

WILDLIFE SPECIES POTENTIALLY OCCURRING WITHIN THE LIGHTHOUSE LANDING REDEVELOPMENT PROJECT SITE, ADJACENT PARKLANDS, AND HUDSON RIVER
VILLAGE OF SLEEPY HOLLOW
WESTCHESTER COUNTY, NEW YORK

Order/Family/Common Name [1]	Scientific Name	State Rank[2]	Breeding[3]	Seasonality	GM site	Adjacent Parkland	Hudson River	Habitat Type
Order Anseriformes								
Family Anatidae - Waterfowl								
Wood Duck * +	*Aix sponsa*	PB-GS	N	Sp, Su, F, W		X		Shallows
Northern Pintail +	*Anas acuta*	PB-GS	N	Sp, F, W			X	Shallows
American Wigeon +	*Anas americana*	PB-GS	N	Sp, F, W			X	Shallows
Northern Shoveler +	*Anas clypeata*	PB-GS	N	Sp, F, W			X	Shallows
American Green-winged Teal +	*Anas crecca*	PB-GS	N	Sp, F, W		X	X	Shallows
Eurasian Wigeon +	*Anas penelope*	PB-GS	N	Sp, F, W			X	Shallows
Mallard * # +	*Anas platyrhynchos*	PG-GS	Y	Sp, Su, F, W		X	X	Shallows
American Black Duck * # +	*Anas rubripes*	PB-GS	N	Sp, F, W		X	X	Shallows
Gadwell # +	*Anas strepera*	PB-GS	N	Sp, F, W			X	Shallows
Lesser Scaup +	*Aythya affinis*	PB-GS	N	Sp, F, W			X	Shallows
Ring-necked Duck # +	*Aythya collaris*	PB-GS	N	Sp, F, W		X	X	Shallows
Greater Scaup +	*Aythya marila*	PB-GS	N	Sp, F, W			X	Shallows
Canvasback +	*Aythya valisineria*	PB-GS	N	Sp, F, W			X	Shallows
Brant +	*Branta bernicla*	PB-GS	N	Sp, F, W			X	Shallows
Canada Goose * # +	*Branta canadensis*	PB-GS	Y	Sp, Su, F, W	X	X	X	Shallows
Common Goldeneye +	*Bucephala clangula*	PB-GS	N	Sp, F, W			X	Shallows
Bufflehead # +	*Bucephala albeola*	PB-GS	N	Sp, F, W			X	Shallows
Snow Goose #	*Chen caerulescens*	PB-GS	N	Sp, F, W			X	Shallows
Mute Swan * # +	*Cygnus olor*	PB-GN	Y	Sp, F, W		X	X	Shallows
Hooded Merganser # +	*Lophodytes cucullatus*	PB-GS	N	Sp, F, W		X	X	Shallows
Surf Scoter +	*Melanitta perspicillata*	PB-GS	N	Sp, F, W			X	Shallows
White-winged Scoter +	*Melanitta fusca*	PB-GS	N	Sp, F, W			X	Shallows
Common Merganser # +	*Mergus merganser*	PB-GS	N	Sp, F, W			X	Shallows
Red-breasted Merganser +	*Mergus serrator*	PB-GS	N	Sp, F, W			X	Shallows
Ruddy Duck +	*Oxyura jamaicensis*	PB-GS	N	Sp, F, W			X	Shallows
Order Gaviiformes								
Family Gaviidae - Loons								
Common Loon +	*Gavia immer*	PB-SC	N	Sp, F, W			X	Shallows
Red-throated Loon +	*Gavia stellata*	PB	N	Sp, F, W			X	Shallows

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Order Podicipediformes								
Family Podicipedidae - Grebes								
Horned Grebe +	*Podiceps auritus*	PB	N	Sp, F, W			X	Shallows
Red-necked Grebe +	*Podiceps grisegena*	PB	N	Sp, F, W			X	Shallows
Pied-billed Grebe +	*Podilymbus podiceps*	PB-T	N	Sp, F, W		X	X	Shallows
Order Pelecaniformes								
Family Phalacrocoracidae - Cormorants								
Double-crested Cormorant +	*Phalacrocorax auritus*	PB	N	Sp, Su, F, W			X	Shallows
Great Cormorant +	*Phalacrocorax carbo*	PB	N	Sp, F, W			X	Shallows
Order Ciconiiformes								
Family Ardeidae - Herons and Bitterns								
Great Blue Heron #	*Ardea herodias*	PB	N	Sp, Su, F, W		X	X	Shallows, Marsh, Swamp, Forest
Green Heron *	*Butorides virescens*	PB	Y	Sp, Su, F		X	X	Shallows, Marsh, Swamp, Forest
Black-crowned Night-Heron * #	*Nycticorax nycticorax*	PB	N	Sp, Su, F, W		X	X	Shallows, Marsh, Swamp, Forest
Family Cathartidae - Vultures								
Turkey Vulture *	*Cathartes aura*	PB	N	Sp, Su, F	X	X	X	Forest, Waste Ground
Order Falconiformes								
Family Accipitridae - Hawks								
Cooper's Hawk +	*Accipiter cooperii*	PB-SC	N	Sp, Su, F	X	X		Forest, Waste Ground
Sharp-shinned Hawk +	*Accipiter striatus*	PB-SC	N	Sp, Su, F	X	X		Forest, Waste Ground
Red-tailed Hawk * # +	*Buteo jamaicensis*	PB	Y	Sp, Su, F, W	X	X		Forest, Waste Ground
Broad-winged Hawk *	*Buteo platypterus*	PB	N	Sp, Su, F	X	X		Forest
Northern Harrier +	*Circus cyaneus*	PB-T	N	W	X	X		Marsh, Waste Ground
Family Falconidae - Falcons								
Merlin +	*Falco columbarius*	PB	N	Sp, F, W	X	X	X	Marsh, Waste Ground
Peregrine Falcon +	*Falco peregrinus*	PB-E	N	Sp, F, W	X	X	X	Marsh, Waste Ground
American Kestrel * +	*Falco sparverius*	PB	N	Sp, F, W	X	X	X	Marsh, Waste Ground

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Order Gruciformes								
Family Rallidae - Coots and Rails								
American Coot +	*Fulica americana*	PB-GS	N	Sp, F, W		X	X	Shallows
Order Charadriiformes								
Family Charadriidae - Plovers								
Killdeer * +	*Charadrius vociferus*	PB-GN	Y	Sp, Su, F, W	X	X		Waste Ground
Family Scolopacidae - Sandpipers								
Spotted Sandpiper *	*Actitis macularia*	PB-GN	Y	Sp, Su, F		X	X	Marsh
Purple Sandpiper +	*Calidris maritima*	PB-GN	N	Sp, F			X	Marsh
American Woodcock * +	*Scolopax minor*	PB-GS	N	Sp, Su, F, W	X	X		Marsh
Greater Yellowlegs +	*Tringa melanoleuca*	PB-GN	N	Sp, F, W	X	X	X	Marsh, Waste Ground
Family Laridae - Gulls								
Herring Gull +	*Larus argentatus*	PB	N	Sp, Su, F, W	X	X	X	Shallows, Marsh, Waste Ground
Ring-billed Gull # +	*Larus delawarensis*	PB	N	Sp, F, W	X	X	X	Shallows, Marsh, Waste Ground
Lesser Black-backed Gull +	*Larus fuscus*	PB	N	W		X	X	Shallows, Marsh, Waste Ground
Great Black-backed Gull +	*Larus marinus*	PB	N	Sp, Su, F, W	X	X	X	Shallows, Marsh, Waste Ground
Bonaparte's Gull +	*Larus philadelphia*	PB	N	W		X	X	Shallows, Marsh, Waste Ground
Order Columbiformes								
Family Columbidae - Pigeons and Doves								
Rock Dove * # +	*Columba livia*	Un	Y	Sp, Su, F, W	X	X		Waste Ground
Mourning Dove * # +	*Zenaida macroura*	PB	Y	Sp, Su, F, W	X	X		Forest Edges, Waste Ground
Order Cuculiformes								
Family Cuculidae - Cuckoos								
Yellow-billed Cuckoo *	*Coccyzus americanus*	PB	Y	Sp, Su, F		X		Forest

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Order Strigiformes								
Family Strigidae - Typical Owls								
Northern Saw-whet Owl +	*Aegolius acadicus*	PB	N	W		X		Forest
Long-eared Owl +	*Asio otus*	PB	N	W		X		Forest
Great Horned Owl * +	*Bubo virginianus*	PB	Y	Sp, Su, F, W	X	X		Forest, Waste Ground
Eastern Screech-Owl * +	*Otus asio*	PB	Y	Sp, Su, F, W	X	X		Forest
Barn Owl +	*Tyto alba*	PB	N	W	X	X		Waste Ground
Order Apodiformes								
Family Apodidae - Swifts								
Chimney Swift *	*Chaetura pelagica*	PB	N	Sp, Su, F	X	X		Waste Ground
Order Coraciiformes								
Family Alcedinidae - Kingfishers								
Belted Kingfisher +	*Ceryle alcyon*	PB	N	Sp, F, W		X	X	Shallows, Marsh
Order Piciformes								
Family Picidae - Woodpeckers								
Northern Flicker * +	*Colaptes auratus*	PB	Y	Sp, Su, F, W		X		Forest
Red-bellied Woodpecker * # +	*Melanerpes carolinus*	PB	Y	Sp, Su, F, W		X		Forest
Downy Woodpecker * # +	*Picoides pubescens*	PB	Y	Sp, Su, F, W	X	X		Forest, Waste Ground
Hairy Woodpecker * # +	*Picoides villosus*	PB	Y	Sp, Su, F, W		X		Forest
Yellow-bellied Sapsucker +	*Sphyrapicus varius*	PB	N	Sp, F, W		X		Forest
Order Passeriformes								
Family Tyrannidae - Flycatchers								
Great Crested Flycatcher *	*Myiarchus crinitus*	PB	Y	Sp, Su, F		X		Forest
Eastern Phoebe * +	*Sayornis phoebe*	PB	Y	Sp, F, W	X	X		Forest, Water's Edge
Eastern Kingbird *	*Tyrannus tyrannus*	PB	Y	Sp, Su, F		X		
Family Vireonidae - Vireos								
Warbling Vireo *	*Vireo gilvus*	PB	Y	Sp, F		X		Forest Edge, Water's Edge
Red-eyed Vireo *	*Vireo olivaceus*	PB	Y	Sp, Su, F		X		Forest

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Family Corvidae - Jays and Crows								
American Crow * # +	*Corvus brachyrhynchos*	PB-GS	Y	Sp, Su, F, W	X	X		Various
Fish Crow * +	*Corvus ossifragus*	PB-GS	Y	Sp, Su, F, W	X	X	X	Various - Coastal
Blue Jay * # +	*Cyanocitta cristata*	PB-GS	Y	Sp, Su, F, W	X	X		Forest, Swamp, Waste Ground
Family Hirundinidae - Swallows								
Barn Swallow *	*Hirundo rustica*	PB	Y	Sp, Su, F	X	X		Waste Ground
Northern Rough-winged Swallow *	*Stelgidopteryx serripennis*	PB	N	Sp, Su, F		X	X	Waters
Tree Swallow *	*Tachycineta bicolor*	PB	N	Sp, Su, F	X	X		Forest, Waste Ground
Family Paridae - Titmice								
Tufted Titmouse * # +	*Baeolophus bicolor*	PB	Y	Sp, Su, F, W		X		Swamp, Forest
Black-capped Chickadee * # +	*Poecile atricapillus*	PB	Y	Sp, Su, F, W		X		Swamp, Forest
Family Sittidae - Nuthatches								
Red-breasted Nuthatch +	*Sitta canadensis*	PB	N	W		X		Forest
White-breasted Nuthatch * #	*Sitta carolinensis*	PB	Y	Sp, Su, F, W		X		Forest
Family Certhiidae								
Brown Creeper +	*Certhia americana*	PB	N	Sp, F, W		X		Forest
Family Troglodytidae - Wrens								
Marsh Wren +	*Cistothorus platensis*	PB	N	Sp, F, W		X		Marsh
Carolina Wren * #	*Thryothorus ludovicianus*	PB	Y	Sp, Su, F, W		X		Forest
House Wren *	*Troglodytes aedon*	PB	Y	Sp, Su, F, W		X		Forest Edge
Winter Wren # +	*Troglodytes trogladytes*	PB	N	Sp, F, W		X		Forest
Family Regulidae - Kinglets								
Ruby-crowned Kinglet +	*Regulus calendula*	PB	N	Sp, F, W	X	X		Forest, Waste Ground
Gold-crowned Kinglet +	*Regulus satrapa*	PB	N	Sp, F, W		X		Forest
Family Turdidae - Thrushes								
Hermit Thrush +	*Catharus guttutas*	PB	N	Sp, F, W		X		Forest
Wood Thrush *	*Hylocichla mustelina*	PB	Y	Sp, Su, F		X		Forest
Eastern Bluebird * +	*Sialia sialis*	PB	N	Sp, F, W		X		Forest Edge

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American Robin * # +	*Turdus migratorius*	PB	Y	Sp, Su, F, W	X	X		Various
Family Mimidae - Mimic Thrushes								
Gray Catbird * +	*Dumetella carolinensis*	PB	Y	Sp, Su, F, W		X		Forest Edge
Northern Mockingbird * # +	*Mimus polyglottos*	PB	Y	Sp, Su, F, W	X			Forest Edge, Waste Ground
Brown Thrasher * +	*Toxostoma rufum*	PB	Y	Sp, Su, F, W		X		Forest Edge, Waste Ground
Family Sturnidae - Starlings								
European Starling * # +	*Sturnus vulgaris*	Un	Y	Sp, Su, F, W	X	X		Various
Family Motacillidae								
American Pipit +	*Anthus lutescens*	PB	N	Sp, F, W	X			Waste Ground
Family Bombycillidae - Waxwings								
Cedar Waxwing * # +	*Bombycilla cedrorum*	PB	Y	Sp, Su, F, W		X		Forest Edge
Family Parulidae - Wood Warblers								
Yellow-rumped Warbler +	*Dendroica coronata*	PB	N	Sp, F, W	X			Forest, Waste Ground
Prairie Warbler *	*Dendroica discolor*	PB	N	Sp, F				Forest
Palm Warbler	*Dendroica palmarum*	PB	N	Sp, F	X			Waste Ground
Chestnut-sided Warbler *	*Dendroica pensylvanica*	PB	Y	Sp, Su, F		X		Forest Edge
Yellow Warbler *	*Dendroica petechia*	PB	Y	Sp, Su, F	X	X		Forest Edge, Waste Ground
Common Yellowthroat * +	*Geothlypis trichas*	PB	Y	Sp, Su, F, W	X	X		Forest Edge, Waste Ground
Worm-eating Warbler *	*Helmitheros vermivorus*	PB	N	Sp, F		X		Forest
Black-and-white Warbler *	*Mniotilta varia*	PB	Y	Sp, Su, F		X		Forest
American Redstart *	*Setophaga ruticilla*	PB	Y	Sp, Su, F		X		Forest
Ovenbird *	*Seiurus aurocapillus*	PB	Y	Sp, Su, F		X		Forest
Orange-crowned Warbler +	*Vermivora celata*	PB	N	Sp, F, W		X		Forest
Blue-winged Warbler *	*Vermivora pinus*	PB	Y	Sp, Su, F		X		Forest Edge
Hooded Warbler *	*Wilsonia citrina*	PB	N	Sp, F		X		Forest
Family Thraupidae - Tanagers								
Scarlet Tanager *	*Piranga olivacea*	PB	Y	Sp, Su, F		X		Forest

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Family Emberizidae - Sparrows								
Dark-eyed Junco # +	*Junco hyemalis*	PB	N	Sp, F, W	X	X		Forest, Waste Ground
Swamp Sparrow +	*Melospiza georgiana*	PB	N	Sp, Su, F		X		Marsh, Swamp
Song Sparrow * # +	*Melospiza melodia*	PB	Y	Sp, Su, F, W	X	X		Forest Edge, Waste Ground
Fox Sparrow +	*Passerella iliaca*	PB	N	Sp, F, W		X		Forest
Eastern Towhee * # +	*Pipilo erythrophthalmus*	PB	Y	Sp, Su, F, W		X		Forest
Snow Bunting * #	*Plectrophenax nivalis*	PB	N	Sp, F, W	X			Forest Edge, Waste Ground
American Tree Sparrow # +	*Spizella arborea*	PB	N	Sp, F, W	X	X		Waste Ground
Chipping Sparrow * +	*Spizella passerina*	PB	Y	Sp, Su, F, W				Forest Edge, Waste Ground
Field Sparrow * +	*Spizella pusilla*	PB	Y	W	X	X		Forest Edge, Waste Ground
White-throated Sparrow # +	*Zonotrichia albicollis*	PB	N	Sp, F, W	X	X		Forest Edge, Waste Ground
Family Cardinalidae								
Northern Cardinal * # +	*Cardinalis cardinalis*	PB	Y	Sp, Su, F, W	X	X		Forest
Rose-breasted Grosbeak *	*Pheucticus ludovicianus*	PB	Y	Sp, Su, F		X		Forest
Indigo Bunting *	*Passerina cyanea*	PB	Y	Sp, Su, F		X		Forest Edge
Family Icteridae - Blackbirds								
Red-winged Blackbird * # +	*Agelaius phoeniceus*	PB	Y	Sp, Su, F, W		X		Marsh
Rusty Blackbird +	*Euphagus carolinus*	PB	N	Sp, F, W		X		Forest, Waste Ground
Baltimore Oriole * +	*Icterus galbula*	PB	Y	W		X		Forest
Brown-headed Cowbird * # +	*Molothrus ater*	PB	Y	Sp, Su, F, W		X		Forest
Common Grackle * # +	*Quiscalus quiscula*	PB	Y	Sp, Su, F, W	X	X		Forest Edge
Family Fringillidae - Finches								
American Goldfinch * # +	*Carduelis tristis*	PB	Y	Sp, Su, F, W	X	X		Forest Edge, Waste Ground
House Finch * # +	*Carpodacus mexicanus*	PB	Y	Sp, Su, F, W	X	X		Various
Family Ploceidae - Weaver Finches								
House Sparrow * # +	*Passer domesticus*	Un	Y	Sp, Su, F, W	X	X		Various
Order Testudines - Turtles								
Family Chelydridae - Snapping Turtles								
Snapping Turtle	*Chelydra serpentina*	Un	Y			X	X	Shallows

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Family Kinosternidae - Mud and Musk Turtles								
Eastern Box Turtle	*Terrapene carolina carolina*	GN-SC	Y			X		Forest
Painted Turtle	*Chryemys picta*	Un	Y			X		Shallows
Order Squamata - Lizards and Snakes								
Family Colubridae - Colubrids								
Northern Water Snake	*Natrix sipedon sipedon*	Un	Y			X		Waters
Common Garter Snake	*Thamnophis sirtalis sirtalis*	Un	Y		X	X		Forest, Waste Ground
Order Caudata - Salamanders								
Family Plethodontidae - Lungless Salamanders								
Redback Salamander*	*Plethodon cinereus*	Un	Y			X		Forest
Order Anura - Toads and Frogs								
Family Bufonidae - Toads								
Eastern American Toad	*Bufo a. americanus*	GS	Y		X	X		Various
Fowler's Toad	*Bufo woodhousei fowleri*	GS	Y		X	X		Various
Order Anura - Toads and Frogs								
Family Hylidae - Treefrogs								
Northern Spring Peeper	*Hyla crucifer crucifer*	GS	Y			X		Swamp
Family Ranidae - True Frogs								
Bullfrog	*Rana catesbeiana*	GS			X	X		Shallows
Green Frog	*Rana clamitans melanota*	GS			X	X		Shallows
Order Insectivora - Insect-eaters								
Family Soricidae - Shrews								
Shorttail Shrew	*Blarina brevicada*	Un	Y		X	X		Forest, Waste Ground
Order Rodentia - Gnawing Mammals								
Family Sciuridae - Squirrels								
Eastern Chipmunk	*Tamias striatus*	Un	Y		X	X		Forest
Gray Squirrel	*Sciurus carolinensis*	GS	Y		X	X		Forest

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Family Cricetidae - Mice, Rats, and Voles								
Muskrat	*Ondatra zibethicus*	GS	Y			X	X	Shallows
White-footed Mouse	*Peromyscus leucopus*	Un	Y		X	X		Forest
Family Muridae - Old World Rats and Mice								
Norway Rat	*Rattus norvegicus*	Un	Y		X	X	X	Various
House Mouse	*Mus musculus*	Un	Y		X	X		Various
Family Cervidae - Deer								
Whitetail Deer	*Odocoileus virginianus*	GS	Y		X	X		Forest

[1] Compiled from observations by EcolSciences, Inc. during the period October 2003 to December 2003 and the following sources:
* - NYS Breeding Bird Atlas 1980-1985 (Block 5954A)
# - Cornell Great Backyard Bird Count Results 1998-2003
+ - National Audubon Society Christmas Bird Count for Bronx-Westchester Region 2002

[2] Per New York State DEC, Division of Fish, Wildlife, and Marine Resources
Key:
E - Endangered
T - Threatened
SC - Special Concern Species
GS, GN - Game Species (GS Season Set) (GN No Season)
PB - Protected Birds
Un - Unprotected
SR - Special Regulations

[3] Based on an evaluation of potentially suitable habitat by EcolSciences, Inc. and the above-listed sources

Bold - Indicates EcolSciences observed it during its site inspections on October 28, 2003 and December 9, 2003

ATTACHMENT D

Qualifications of Preparers

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

ECOLSCIENCES, INC.
CORPORATE HISTORY

EcolSciences, Inc., was founded in 1973 in response to the growing need for responsible environmental planning, as mandated by NEPA, The National Environmental Policy Act. EcolSciences specializes in performing environmental investigations relating to permit acquisition and regulatory compliance, demonstration of "due diligence", waste management, impact analysis, mitigation and remediation. EcolSciences' strength is a proficiency in current environmental and waste management laws, regulations, and policies, coupled with a practical problem-solving approach to analyzing the environmental consequences of projects.

During more than twenty years, EcolSciences has successfully completed more than 3,000 studies for private, quasi-public and public clients. EcolSciences has represented many of the country's leading industries, corporations, developers, and financial institutions including AT&T, American Cyanamid Company, Merck, Johnson & Johnson, Hartz Mountain Industries, Trammell Crow Company, Principal Mutual Life Insurance Company, Midlantic National Bank, and First Fidelity Bank. Among the many utilities that EcolSciences has served are Jersey Central Power & Light, New Jersey Natural Gas Company, Elizabethtown Gas Company, Essex and Hudson County Improvement Authorities, Ocean County Utilities Authority, and numerous municipal utilities authorities. Representative government agency clients include the U.S. Environmental Protection Agency, New York City Economic Development Corporation and New York City Department of Sanitation.

EcolSciences' interdisciplinary staff of environmental engineers, geologists, biologists and scientists has extensive experience in a diversity of studies related to biological assessment and toxic and hazardous materials management. EcolSciences has performed environmental assessments and has acquired appropriate permits and approvals under a wide variety of Federal, state, regional, and local jurisdictions. These permits include: Section 404 and Section 10 authorizations, CAFRA and Waterfront Development permits, Pinelands Commission certifications, New Jersey Freshwater Wetlands Act permits (both general and individual permits), Hackensack Meadowlands Development Commission (HMDC) approvals, and D&R Canal Commission approvals. EcolSciences' senior staff are experienced in the delivery of expert testimony; senior staff of the firm have testified in public hearings, Administrative Law proceedings, and county, regional and municipal planning boards.

Since the promulgation of the New Jersey Environmental Cleanup Responsibility Act (ECRA) and it successor, the Industrial Site Recovery Act (ISRA), EcolSciences has been involved in the implementation of the entire ECRA/ISRA program for its industrial clients. More recently, as the demonstration of "due diligence" has become a lending industry standard, EcolSciences has completed numerous Phase I environmental audits and follow-up Phase II studies to clarify the level of environmental risk and liability associated with past and current practices at a particular site or facility. These audits typically include such activities as hazardous materials inventories, building and site inspections, subsurface soil investigations, groundwater monitoring, tank testing, asbestos bulk sampling, development of remediation plans and supervision of cleanup activities. The firm and technical staff members are also certified by the NJDEP for the performance of underground storage tank installation, closure, and subsurface evaluation. All work is conducted under the supervision of a licensed professional engineer.

The biological staff of EcolSciences has conducted over 2,000 wetland delineations and environmental assessments throughout the eastern and central portions of the United States. Our staff is skilled in all technical aspects of wetland identification and delineation methodologies established by the COE, USFWS, EPA and SCS; the assessment of wetland functions and values using techniques such as HEP and WET; the assessment of development-related wetland impacts; the acquisition of wetland permits; and the development and implementation of mitigation plans. Key members of our staff are certified as Professional Wetland Scientists and provisionally certified by the COE. Additionally, EcolSciences' biologists routinely performs specialized studies related to threatened and endangered species, wildlife habitat surveys and the assessment of development-related impacts. EcolSciences' staff is skilled in the field methodologies and reporting requirements of the Federal and state agencies and has substantial experience in the field identification of protected plants and animals and their preferred habitat.

EcolSciences has and continues to play an instrumental role in the development of federal environmental policies pertaining to wetlands and hazardous waste sites through a number of manuals that have been prepared under government contract for the USEPA. Recent examples include the Manual for Achieving NEPA Functional Equivalency in CERCLA Remedial Actions, Creation of Wetland Banks for Mitigation of Impacts at Superfund Sites, Technical Procedures Manual for the Advance Identification of Wetlands, Policy Document on Wetlands Mitigation at Superfund sites, Wetland Regulations Guidebook for New York State, and Principles of Environmental Assessment: An International Training Manual.

EcolSciences is a multi-disciplinary firm that has the experience and capabilities to provide a full range of environmental services. Studies are conducted in a manner that emphasizes the balance of environmental, engineering and cost factors. This approach provides the information necessary for sound and practical project decisions.

MICHAEL S. FRIEDMAN

EDUCATION:

M.S., 1973 - Marine Biology
Long Island University
B.S., 1970 - Biology
Rennselaer Polytechnic Institute

AREAS OF EXPERTISE:

Contract Administration
Project Management
Regulatory Compliance
Public Participation
Wetlands Biology

PROFESSIONAL AFFILIATIONS:

Water Pollution Control Federation
Society of Wetland Scientists

EXPERIENCE:

Mr. Friedman is the President of EcolSciences, Inc. During the past twenty-nine years, Mr. Friedman has been a part of EcolSciences' Corporate management staff with primary responsibilities ranging from project manager, business development manager, and general manager to his present responsibilities. With degrees in Biology and Marine Biology, Mr. Friedman has had considerable experience with a cross-section of environmental issues. Coupled with this background, he has also worked on environmental protection/mitigation aspects of several of the largest construction projects funded by the U.S. Environmental Protection Agency (EPA) during the past twenty years.

Mr. Friedman has managed numerous NEPA-related studies including wastewater management EIS's, EID's and facilities plans, and has been the Principal-in-Charge of numerous EIS's and special NEPA studies prepared for EPA Regions II, III and V. In this capacity, he recently participated in the preparation of an International Training Course in Environmental Assessment which was delivered in Poland by the U.S. EPA. He has also managed the preparation of numerous due diligence studies (Phase I Audits), Brownfields environmental investigations, environmental assessments, wetland investigations and special environmental studies for federal and state agencies and many private clients.

Mr. Friedman has provided expert testimony for a cross-section of projects and has appeared as an expert in New Jersey Superior Court and before numerous planning boards and federal/state boards such as the Hackensack Meadowlands Development Commission. Mr. Friedman routinely provides expert testimony to the legal community on wetland and regulatory issues. Additionally, Mr. Friedman has been a lecturer on New Jersey's wetlands regulations at the Government Institutes, 1993, 1994 and 1995 Fundamentals of New Jersey Environmental Law Compliance Course as well as on several panels including New Jersey's Brownfield's regulations. Several examples of relevant project experience include Mr. Friedman's management of the following:

Michael S. Friedman

- Principal-in-Charge for the preparation of a preliminary assessment, site investigation report, remedial action workplan, and remedial investigation report for a major New Jersey brownfield site along the Hudson River waterway.

- Preparation of biological chapters (small mammals, benthos, fish) of an EPA-authorized site investigation at Tinicum National Environmental Center, Philadelphia, PA.

- Detailed plans and specifications for the remediation and restoration of wetland and shoreline habitats on Fresh Kills Sanitary Landfill, Staten Island, NY.

- Preparation of the 404(b) Evaluation Manual for the EPA. This document presented case studies for implementation of 404 COE permits for major construction projects.

- Assistance in the leadership of a two-day seminar on Achieving NEPA Functional Equivalency in CERCLA Remedial Actions under the auspices of EPA Region III.

- Environmental planning for landfill siting studies of Passaic County, New Jersey. Additionally, participated in the analysis of landfill siting in Sussex, Hunterdon and Morris Counties, New Jersey.

- Federal (EPA) Environmental Impact Statement (EIS) for the Manasquan River EIS including major public participation program and CAFRA permit requirements.

- Principal on several hundred wetland investigations within New Jersey and provider of regulatory expertise on the New Jersey Freshwater Wetland Protection Act and the Corps of Engineers' 404 Program.

- Acted as senior wetland consultant for the siting of Bergen County's and Hudson County's proposed resource recovery facility in the Hackensack Meadowlands. Provided review of comprehensive wetland delineation, development of mitigation plan(s), preparation of 404 permit and expert testimony to the Hackensack Meadowlands Development Commission.

- Conducted numerous environmental studies throughout the State of New Jersey and interacted with Pinelands Commission, CAFRA, NJDEP Water Division, EPA Regions II and III, and many local and municipal entities. Also participated in major federal (EIS) projects throughout the United States, including Massachusetts, New York, Pennsylvania, Maryland, Delaware, Michigan, Wisconsin and Louisiana.

Michael S. Friedman

Mr. Friedman has had extensive experience administering and managing NEPA support contracts for EPA regional offices. Starting in 1974, Mr. Friedman managed U.S.EPA's first national environmental task order contract with Region III. Since that time, Mr. Friedman has managed EIS projects in EPA Regions I, II, III, V and VI. Project assignments have included conventional EISs, piggyback EISs, 404 program handbooks, and special studies on secondary impacts, wetlands and energy conservation. Mr. Friedman, as a part of EcolSciences' NEPA-support contract with EPA Regions II and III has served as a project administrator on several studies dealing with Advanced Identification Technical Procedures Handbook and Creation of Wetland Mitigation Banks for Superfund sites.

Before joining EcolSciences, Mr. Friedman was assistant director of environmental assessments with WAPORA, Inc., a Washington, DC-based consulting firm. He was involved with environmental studies and was project manager for the preparation of environmental impact statements and assessments for water and wastewater projects. Of particular interest was an EIS for an Emergency Water Pumping Station on the Potomac Estuary prepared for the Corps of Engineers of which Mr. Friedman was project manager. In graduate school, Mr. Friedman conducted research on the impacts of treated sewage effluent on primary productivity after its discharge into the coastal waters in Long Island Sound.

MICHAEL KOVACS

EDUCATION: *B.S., 1979 - Natural Resource Management*
Rutgers University, New Jersey

AREAS OF EXPERTISE:
Aquatic, Wetlands, and Terrestrial Ecology
Wetlands Construction and Resoration
Environmental Impact Assessment and Mitigation Planning
Project Management

CERTIFICATIONS:
Professional Wetland Scientist (SWS)
Qualified Bog Turtle Surveyor (USFWS)
Wetland Construction and Restoration (WTI)
Qualified Ornithologist (NJDEP)
Habitat Evaluation Procedure (USFWS)
Health and Safety for Hazardous Waste Site Investigation Personnel (NJ/NY HMWTC)

PROFESSIONAL ASSOCIATIONS:
Society of Wetland Scientists
American Fisheries Society
Association of Field Ornithologists
New Jersey Audubon Society

EXPERIENCE:

Mr. Kovacs is a **Vice President** with EcolSciences, Inc. with over 23 years experience in the environmental consulting field. His areas of expertise lie in the inventory and evaluation of terrestrial, aquatic, and wetland systems, and with the assessment and mitigation of impacts associated with major development. Mr. Kovacs has directed and has participated in a wide variety of comprehensive ecological field studies providing a high degree of competence in sampling protocols and procedures as well as in the identification and ecology of aquatic/terrestrial vertebrate and invertebrate animal species, particularly threatened and endangered species. Elements of Mr. Kovacs' wetlands-related projects include: the delineation of wetlands through an analysis of soils, hydrology, vegetation and aerial photography; the characterization of wetland type; the evaluation of associated functions and values; assessment of development-related impacts; impact mitigation; wetlands construction and restoration; and permit acquisition. A summary of Mr. Kovacs' relevant project experience includes:

Threatened and Endangered Species Studies

- Numerous field surveys of Federally- and State-listed threatened and endangered species in NJ, NY and PA. Surveyed species included, but were not limited to: Swamp Pink, Knieskern's Beaked-rush, Blue-spotted Salamander, Long-tailed Salamander, Pine Barrens Treefrog, Cope's Gray Treefrog, Wood Turtle, Bog Turtle, Timber Rattlesnake, Northern Pine Snake, Corn Snake, Cooper's Hawk, Red-shouldered Hawk, Bald Eagle, Peregrine Falcon, Barred Owl, Long-eared Owl, Red-headed Woodpecker, Bobolink, Grasshopper Sparrow, Vesper Sparrow, Savannah Sparrow, and American Bittern.

- Acquisition of T&E species data for SEQRA studies being performed in association with the proposed City of Niagara Falls Redevelopment Project.

Michael Kovacs

- An inventory of various T&E species and other wildlife within a 2000± acre site in Cumberland County, New Jersey for a sand mining concern.

- A survey of Timber Rattlesnake within the 2,300± acre Tuxedo Reserve site in Orange County, New York.

- An evaluation of eight NJ Superfund sites for the potential occurrence of the Federally-threatened plant species, Swamp Pink and Knieskern's Beaked-rush, for the USEPA, Region II.

Avifaunal and Other Wildlife Studies

- Intensive avifaunal field and literature studies associated with the preparation and implementation of a Bird Deterrent Plan required by the Federal Aviation Administration for a proposed ash-bypass landfill in Onondaga County, NY.

- Wintering/migratory bird field studies for the proposed redevelopment of Flushing Airport by the NYC Economic Development Corp. (formerly Ports and Trade).

- Seasonal wildlife field surveys associated with a SEQRA EIS for the Bloomingdale Park Eastern Recreational Facilities Program proposed by the NYC Department of Design and Construction.

Landfill Studies

- Aquatic/terrestrial field and literature studies associated with the preparation of a wetlands/shoreline remediation plan for the Fresh Kills Sanitary Landfill in NY.

- Biological studies of the impacts of Folcroft Landfill upon ecological communities of Tinicum National Environmental Center, Philadelphia, PA for the USEPA, Region III.

- Wetland and wildlife studies for the construction of a resource recovery facility and ash landfill for the Hudson County Improvement Authority.

Mining Studies

- Evaluation of the impacts of peat extraction on the functions and values of peatlands in the Pocono Mountain area of PA for the USEPA, Region III.

- Baseline environmental studies conducted for a proposed copper/zinc mine and associated NPDES permit in northern ME for the Superior Mining Company.

- Baseline aquatic surveys of two estuarine marsh systems proposed for phosphate mining for North Carolina Phosphate Company.

- Wetland impact assessment through photo-interpretation for a proposed phosphate mining project in FL for Farmland Industries, Inc.

Transmission Routing Studies

- Environmental inventory, impact assessment and mitigative planning for a power transmission line through CAFRA and Pinelands areas and for a transmission line in Newton, NJ for Jersey Central Power and Light Company.

Michael Kovacs

- Environmental inventory, impact assessment and wetland permitting for a natural gas transmission line through Gloucester County, NJ for South Jersey Gas Company.

Oil Refinery and Port Studies

- Baseline ecological studies for a proposed oil refinery and port in North Carolina for the Brunswick Energy Company.

Special USEPA Studies

- Field studies and report preparation for the Advance Identification of Wetlands along Moshannon Creek near Philipsburg, PA for the USEPA, Region III.

- Field studies and report preparation for the Advance Identification of Wetlands along Bog Run near Quakertown, PA for the USEPA, Region III.

- A Status and Trends Analysis of Wetlands of Orange and Rockland Counties, NY through photointerpretation and ground-truthing for USEPA, Region II.

- An evaluation of wetlands creation for stormwater treatment within a proposed regional sedimentation pond in the Lickinghole Creek Watershed in VA for USEPA, Region III.

- An evaluation of the U.S. Army Corps' Nationwide Permitting process through study of headwater stream systems in northern NJ conducted for the USEPA, Region II.

- Preparation of a draft Advance Identification of Wetlands Technical Procedures Handbook for the USEPA, Region III.

Wetlands Mitigation Studies

- Preparation of a draft manual for USEPA, Region III entitled Creation of Wetland Banks for Mitigation of Impacts from Superfund Sites in New Castle County, DE.

- Preparation of Phase I and Phase II reports for USEPA Headquarters concerning the appropriateness of wetlands mitigation planning at Superfund sites.

- Preparation of wetland mitigation plans and specifications in conjunction with permits issued by the U.S. Army Corps of Engineers and various State agencies.

- Preparation of mitigation plans and specifications for the remediation of wetlands and shoreline areas of the Fresh Kills Sanitary Landfill, Staten Island, NY.

Wastewater Facility Studies

- Preparation of CAFRA EIS's and Freshwater Wetlands Permit applications for Ocean County Utilities Authority's Crestwood Interceptor, Ortley Beach-Alternate Bay Crossing, Toms River Crossing Relief Interceptor and Mill Creek Relief Interceptor projects.

- An evaluation of the State of Ohio's environmental plans and specification requirements for 201 facilities construction for the USEPA, Region V.

Michael Kovacs

- Environmental compliance inspection of 201 facilities construction for the Manasquan River Regional Sewerage Authority and Ocean County Utilities Authority.

- Wastewater facilities planning for Atlantic Highlands/Highlands Sewerage Authority, Bayshore Regional Sewerage Authority, Long Branch Sewerage Authority, Tri-Borough Sewerage Authority, and Tri-Municipal Sewerage Commission.

Commercial/Industrial/Residential Studies

- Wetlands delineation, impact assessment, permit acquisition and mitigation planning for more than 1,500 development projects in NY, NJ, PA, CT, ME and NH.

- Preparation of NJ CAFRA, Waterfront Development, and Stream Encroachment EIS's.

- Preparation of EIS's for major developments for use in submissions to municipalities and provided expert testimony.

KARIN TEKEL

EDUCATION:

B.S. Environmental Science, May 1997
B.S. Natural Resource Management, May 1997
Rutgers University, New Brunswick, New Jersey.
M.S. Hydrologic Sciences
University of California, Davis, California

AREAS OF EXPERTISE:

Environmental Impact Assessment
Regulatory Analysis and Compliance
Wetland Delineation and Permitting
Wetland Ecology
Surface Water Resources

PROFESSIONAL ASSOCIATIONS

Society of Wetland Scientists

EXPERIENCE:

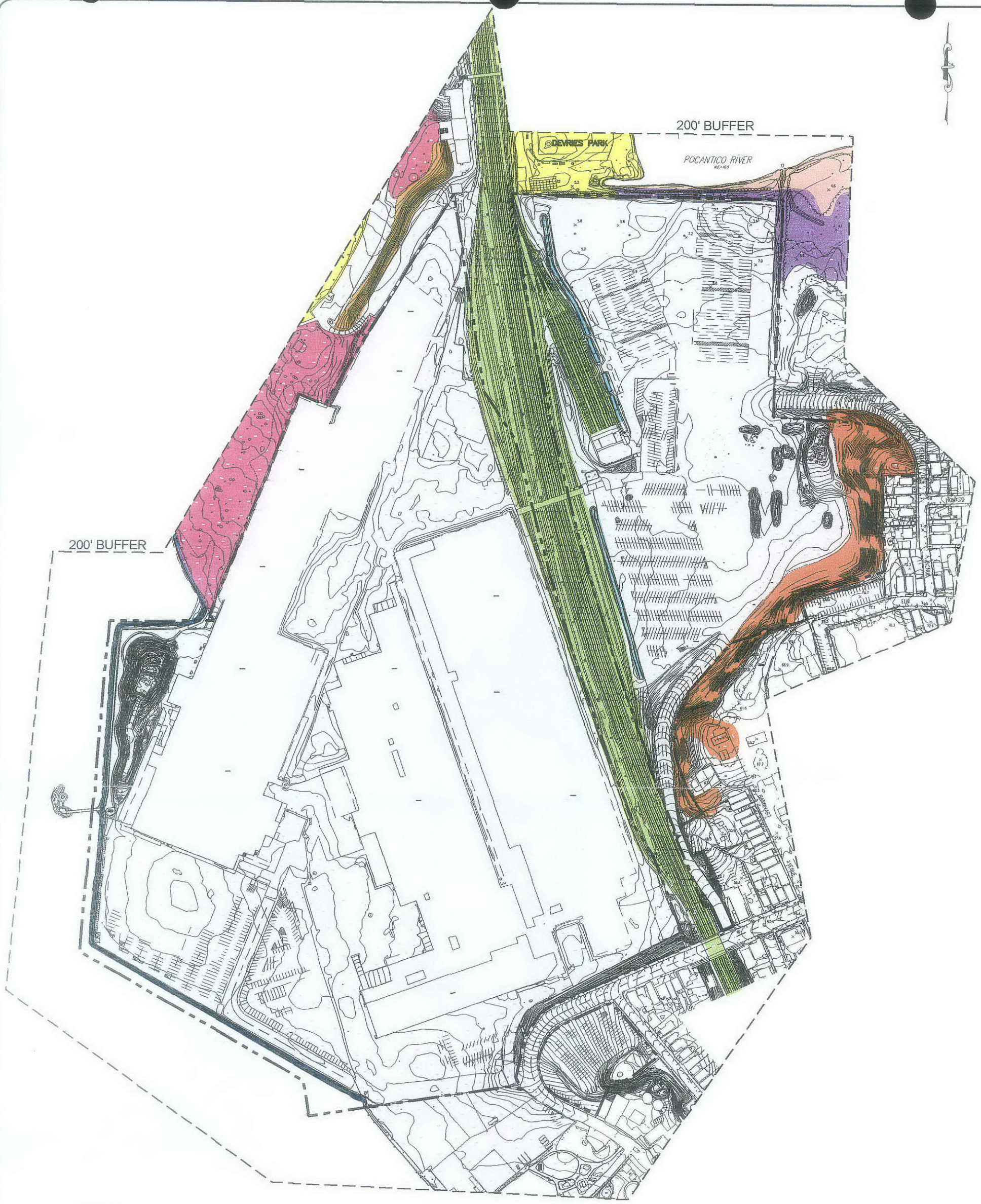
Ms. Tekel is an environmental scientist with EcolSciences, Inc. Her area of expertise lies in the preparation of environmental impact statements and natural resource inventories. In addition, Ms. Tekel has experience in the preparation of Letters of Interpretation, Statewide General Permit and Transition Area Waiver applications in accordance with the New Jersey Freshwater Wetlands Protection Act. Prior to joining EcolSciences, Inc., Ms. Tekel was employed as a Research Assistant at the Water Resources Center of the University of California. A summary of Ms. Tekel relevant experience includes:

- Wetland delineation through the analysis and documentation of soils, hydrology, and vegetation.
- Collection of field observational data on individual wetland plant species pertaining to nutrient resorption.
- Conduction of vegetation surveys for percent cover, biomass estimations, and community composition for inland Californian freshwater marshes.
- Performed streamflow measurements, groundwater, and infiltration analyses.
- Conducted mesocosm experiments to assess the response of selected wetland plant species (native and introduced) to nutrient enrichment and two different water levels.

PLATE 1

Vegetative Communities Mapping

EcolSciences, Inc.
Environmental Management & Regulatory Compliance



LEGEND

- MOWED LAWN
- MOWED LAWN WITH TREES
- BRACKISH TIDAL MARSH
- RED MAPLE–HARDWOOD SWAMP
- ESTUASRINE RIPRAP/ARTIFICIAL SHORE
- RAILROAD
- *OAK–TULIP TREE FOREST*
- DITCH/ARTIFICIAL INTERMITTENT STREAM
- URBAN VACANT LOT

300 0 300 600

1"=300'

TITLE:

VEGETATIVE COMMUNITIES MAPPING

LIGHTHOUSE LANDING REDEVELOPMENT PROJECT

VILLAGE OF SLEEPY HOLLOW
WESTCHESTER COUNTY, NEW YORK

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PLATE NUMBER:
AG	KT	MK	1
DATE:	SCALE:	PROJECT NO.:	
5/4/04	AS SHOWN	HW01-159	