VII. APPENDICES

B. ESA/Hazardous Materials

Appendix B2

- Soils Mechanics Phase II ESA
- EcolScience phase II ESA
- EcolScience Inc., Soil Sample Locations (Full Size Print)

SOIL MECHANICS
ENVIRONMENTAL SERVICES
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April 1, 2010

Breslin Realty Development Corp.
500 Old Country Road
Garden City, N.Y. 11530
Attn: Mr. Wilbur Breslin

Re: Crompond Road &
Old Crompond Road
Yorktown Heights, N.Y.
SMES #: 09-089

Gentlemen:

Forwarded herewith are the results of a Phase II subsurface investigation recently conducted at the above referenced site. The scope of work included the following specific items:

1. Utilizing a backhoe, conduct exploratory excavation activities in connection with on-site septic systems related to Building 1, Building 2, Building 5, Building 6, and Building 7.
2. Collection of soil/sludge grab samples from components of the aforementioned on-site septic systems; collection of near surface soil samples from: a.) perimeter of pad mounted electrical transformer, b.) beneath 275-gallon aboveground storage tanks (ASTs) located north of Building 3 and west of Building 9, c.) exterior drum storage area at former gasoline service station; and collection of sediment material from drainage pit located at the entrance to basement of Building 2.
3. Utilizing direct push sampling equipment technology, collection of aqueous samples from nursery property.
4. Standard decontamination of sampling equipment.
5. Field technical services: supervision of excavation activities; collection of samples; sample preparation; and delivery of samples to independent laboratory for analysis.
6. Laboratory analysis, on a standard turnaround time basis, of recovered samples for requisite parameters.

Analytical results were compared to the following, where applicable:

- New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

- NYSDEC Recommended Soil Cleanup Objectives for Gasoline and Fuel Oil Contaminated Soils (STARS94) (Dated August 22, 2001).
- 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations (Last Amended August 1999).

Field work activities were completed March 15, 16, 17, 18, 19, & 22, 2010 by qualified SMES personnel in accordance with appropriate sampling and decontamination protocols. The samples were hand delivered to Long Island Analytical Laboratories Inc. (110 Colin Drive, Holbrook, N.Y. 11741), a New York State Department of Health (NYSDOH) certified laboratory.

The following sections present a summary of work activities completed in association with the Phase II subsurface investigation and results of laboratory analysis of selected samples (see Table A – Sample Summary Sheet and Sample Location Plan in Appendix).

1.0 ASSESSMENT OF ON-SITE SEWAGE DISPOSAL SYSTEMS ASSOCIATED WITH BUILDING 1, BUILDING 2, BUILDING 5, BUILDING 6, AND BUILDING 7

Utilizing a backhoe, exploratory excavation activities were performed at designated locations for the purposes of unearthing components associated with on-site septic systems related to Building 1, Building 2, Building 5, Building 6, and Building 7. Results of these activities revealed the following:

SEPTIC SYSTEM 1

Septic system 1 (Building 1) was inactive at the time of our investigation. Results of exploratory activities revealed that this septic system consisted of a septic tank, tile field, and other components not able to be confirmed. Soil/sludge sample S-1 was collected from sludge phase material present at the bottom of the septic tank; soil/sludge sample S-2 was collected from gray material located below a leaching line of the tile field. Samples S-1 and S-2 were submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), PCBs (Method 8082), and TAL metals.

Laboratory Results

Laboratory results of samples S-1 and S-2 revealed the following (see Tables #1 - #4 in Appendix):

- Detectable concentrations of selected VOCs and SVOCs were identified in sample S-1, all of which were within NYSDEC TAGM #4046 recommended soil cleanup objectives (RSCO). Non detectable concentrations of VOCs and SVOCs in sample S-2.
- Non detectable concentrations of PCBs in both samples.
- Detectable concentrations of selected metals were identified in both samples, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

SEPTIC SYSTEM 2

Septic system 2 (Building 2) was inactive at the time of our investigation. This system appears to have been the second generation septic system installed for Building 2. Results of exploratory activities revealed that this septic system consisted of a septic tank, dosing tank, distribution box, and tile field. Soil/sludge sample S-4 was collected from gray material located below a leaching line of the tile field; soil/sludge sample S-6 was collected from sludge phase material present at the bottom of the dosing tank. Notably, the septic tank contained no significant volume of sludge phase material. As such, no sampling was conducted on this structure. Samples S-4 and S-6 were submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), PCBs (Method 8082), and TAL metals.

Laboratory Results

Laboratory results of samples S-4 and S-6 revealed the following (see Tables #1 - #4 in Appendix):

- Detectable concentrations of selected VOCs and SVOCs were identified in sample S-6, all of which were within NYSDEC TAGM #4046 RSCO. Non detectable concentrations of VOCs and SVOCs in sample S-4.
- Non detectable concentrations of PCBs in both samples.
- Detectable concentrations of selected metals were identified in both samples, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

SEPTIC SYSTEM 3

Septic system 3 (Building 2) appears to have been the initial septic system associated with Building 2. This system was inactive at the time of our investigation. Results of exploratory activities revealed that this septic system consisted of a septic tank, dosing tank, distribution box, and tile field. Soil/sludge sample S-5 was collected from gray material located below a leaching line of the tile field; soil/sludge sample S-7 was collected from sludge phase material present at the bottom of the septic tank. Samples S-5 and S-7 were submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), PCBs (Method 8082), and TAL metals.

Laboratory Results

Laboratory results of samples S-5 and S-7 revealed the following (see Tables #1 - #4 in Appendix):

- Detectable concentrations of selected VOCs and SVOCs were identified in sample S-7, including a select SVOC (benzo-a-anthracene) which marginally exceeded the NYSDEC TAGM #4046 RSCO. Non detectable concentrations of VOCs and SVOCs in sample S-5.
- Non detectable concentration of PCBs in both samples.
- Detectable concentrations of selected metals were identified in both samples, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

SEPTIC SYSTEM 4

Septic system 4 (Building 5) was active, however, appeared to be non-operational at the time of our investigation. All components of this system, i.e., septic tank, dosing tank, and tile field, were full of water. Therefore, the components and/or layout could not be confirmed. Soil/sludge samples S-8 and S-9 were collected from sludge phase material present at the bottom of structures #1 and #2, respectively. Structure #1 contained a solid bottom and structure #2 contained a gravel bottom. A third structure (structure #3) contained no significant volume of sludge phase material. As such, no sampling was conducted on this structure. Further, no sampling was completed on the tile field since all test pits immediately filled with water. Samples S-8 and S-9 were submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), PCBs (Method 8082), and TAL metals.

Laboratory Results

Laboratory results of samples S-8 and S-9 revealed the following (see Tables #1 - #4 in Appendix):

- Detectable concentrations of selected VOCs and SVOCs were identified in samples S-8 and S-9, including some VOCs which exceeded NYSDEC TAGM #4046 RSCO in sample S-8 and some SVOCs which exceeded NYSDEC TAGM #4046 RSCO in samples S-8 and S-9.
- Non detectable concentration of PCBs in both samples.
- Detectable concentrations of selected metals were identified in both samples, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

SEPTIC SYSTEM 5

Septic system 5 (Building 6) was active at the time of this investigation. Results of exploratory activities revealed that this septic system consisted of a septic tank and tile field. The septic tank contained no significant volume of sludge phase material. As such, no sampling was conducted on this structure. Soil/sludge sample S-11 was collected from gray material located below a leaching line of the tile field. Sample S-11 was submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), PCBs (Method 8082), pesticides (Method 8081), and TAL metals.

Laboratory Results

Laboratory results of sample S-11 revealed the following (see Tables #1 - #5 in Appendix):

- Non detectable concentrations of VOCs, SVOCs, PCBs, and pesticides in sample S-11.
- Detectable concentrations of selected metals in sample S-11, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

SEPTIC SYSTEM 6

Septic system 6 (Building 7) was active at the time of this investigation. Results of exploratory activities revealed that this septic system consisted of a septic tank and tile field. Soil/sludge sample S-10 was collected from sludge phase material present at the bottom of the septic tank; soil/sludge sample S-12 was collected from gray material located below a leaching line of the tile field. Samples S-10 and S-12 were submitted to the laboratory for analysis of VOCs (Method 8260),

SVOCs – base neutrals (Method 8270), PCBs (Method 8082), pesticides (Method 8081), and TAL metals.

Laboratory Results

Laboratory results of samples S-10 and S-12 revealed the following (see Tables #1 - #5 in Appendix):

- Detectable concentrations of selected VOCs and SVOCs were identified in sample S-10, including some VOCs and SVOCs which exceeded NYSDEC TAGM #4046 RSCO. Non detectable concentrations of VOCs and SVOCs in sample S-12.
- Non detectable concentration of PCBs in both samples.
- Detectable concentrations of selected metals were identified in both samples, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

2.0 ASSESSMENT OF NEAR SURFACE SOILS IN PROXIMITY TO PAD-MOUNTED ELECTRICAL TRANSFORMER

Near surface soil samples identified as S-13, S-14, S-15, and S-16 were collected from outside the limits of the pad-mounted electrical transformer. These samples were submitted to the laboratory for analysis of PCBs (Method 8082).

Laboratory Results

Laboratory results of samples S-13, S-14, S-15, and S-16 revealed the following (see Table #6 in Appendix):

- Non detectable concentrations of PCBs within all samples.

3.0 ASSESSMENT OF DRAINAGE PIT ASSOCIATED WITH BUILDING 2

One (1) soil/sludge sample, identified as sample S-17, was collected from sediment material contained within the bottom of a drainage pit located at the entrance to the basement of Building 2. Sample S-17 was submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), PCBs (Method 8082), and TAL metals.

Laboratory Results

Laboratory results of sample S-17 revealed the following (see Tables #7 - #10 in Appendix):

- Non detectable concentrations of VOCs in sample S-17.

- Detectable concentrations of selected SVOCs were identified in sample S-17, all of which were within NYSDEC TAGM #4046 RSCO.
- Detectable concentrations of a select PCB (arochlor-1260) were identified in sample S-17, which exceeded the NYSDEC TAGM #4046 RSCO.
- Detectable concentrations of selected metals were identified in sample S-17, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

4.0 ASSESSMENT OF NEAR SURFACE SOILS BENEATH ABOVEGROUND STORAGE TANKS (ASTs) ASSOCIATED WITH BUILDINGS 3 & 9

Near surface soil samples identified as S-18 and S-19 were collected from beneath one (1) 275-gallon diesel fuel AST located outside the northern portion of Building 3 and one (1) 275-gallon fuel oil AST located outside the western portion of Building 9, respectively. These samples were submitted to the laboratory for analysis of VOCs (Method 8260) and SVOCs – base neutrals (Method 8270).

Laboratory Results

Laboratory results of samples S-18 and S-19 revealed the following (see Tables #7 - #8 in Appendix):

- Non detectable concentrations of VOCs in samples S-18 and S-19.
- Detectable concentrations of selected SVOCs were identified in samples S-18 and S-19, some of which exceeded NYSDEC TAGM #4046 RSCO in sample S-18.

5.0 ASSESSMENT OF NEAR SURFACE SOILS AT DRUM STORAGE AREA OF FORMER GASOLINE SERVICE STATION

A near surface soil sample identified as S-20 was collected from the drum storage area at the former gasoline service station. This sample was submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), PCBs (Method 8082), and TAL metals.

Laboratory Results

Laboratory results of sample S-20 revealed the following (see Tables #7 - #10 in Appendix):

- Non detectable concentrations of VOCs and PCBs in sample S-20.

- Detectable concentrations of selected SVOCs were identified in sample S-20, including concentrations of a select SVOC (benzo-a-pyrene) which exceeded NYSDEC TAGM #4046 RSCO.
- Detectable concentrations of selected metals were identified in sample S-17, some of which exceeded NYSDEC TAGM #4046 RSCO. Notably, several of the elevated levels of metals are within Eastern USA or New York State background levels.

6.0 INVESTIGATION OF GROUNDWATER QUALITY BENEATH SUBJECT PROPERTY

Two (2) aqueous samples, identified as AQ-1 and AQ-2, were collected from the nursery property for the purposes of assessing groundwater quality at the target property relative to the adjoining Mobil Service Station site (located across Crompond Road). The nursery property appears to be located hydrodynamically cross or down gradient in relation to the Mobil site. Sample AQ-2 was collected using direct push sampling equipment technology. At sample location AQ-1, refusal was encountered several times using this equipment. Therefore, sample AQ-1 was collected from an existing permanent groundwater monitoring well located at the subject property. Samples AQ-1 and AQ-2 were submitted to the laboratory for analysis of VOCs (Method 8260), SVOCs – base neutrals (Method 8270), and lead (via unfiltered and filtered analysis).

Laboratory Results

Laboratory results of samples AQ-1 and AQ-2 revealed the following (see Tables #11 - #14 in Appendix):

- Non detectable concentrations of VOCs in samples AQ-1 and AQ-2.
- Detectable concentrations of a select SVOC (bis(2-ethylhexyl)phthalate in sample AQ-1, which exceeded the groundwater standard. Non detectable concentrations of SVOCs in sample AQ-2.
- Non detectable concentrations of lead in both samples via filtered analysis. Detectable concentrations of lead in sample AQ-2 via non-filtered analysis, which exceeded the groundwater standard. Non detectable concentrations of lead in sample AQ-1 via non-filtered analysis.

7.0 DISCUSSIONS, CONCLUSIONS, & RECOMMENDATIONS

A Phase II subsurface investigation was conducted at the subject property for the purposes of assessing the environmental quality of the site relative to certain recognized environmental conditions (RECs). The outcome of the Phase II investigation revealed the following:

1. In general, results of the Phase II subsurface investigation revealed concentrations of metals at several sample locations that were in excess of NYSDEC RSCO. In many instances, the concentrations of metals also exceeded Eastern USA or New York State Background levels. Notably, these findings are consistent with those previously identified by EcolSciences, Inc. (Phase II Environmental Site Assessment, dated 1/25/10, prepared by EcolSciences, Inc.). Accordingly, it is our opinion that a soil management plan, which addresses the elevated concentrations of metals, be developed followed by implementation of same during site development activities.

2. Results of laboratory analysis of assessment samples collected from various components associated with on-site septic systems related to Building 1, Building 2, Building 5, Building 6, and Building 7 indicated that several areas have been adversely impacted by target analytical parameters as various contaminants exceeded NYSDEC RSCO. Based on currently available information, it is our opinion that the following components will require implementation of remedial efforts under the jurisdiction of applicable regulatory agencies: dosing tank associated with septic system 2, septic tank associated with septic system 3, all components of septic system 4 (septic tank, dosing tank, distribution box, tile field, etc.), tile field associated with septic system 5, and septic tank associated with septic system 6. After completion of remedial efforts, all components of each on-site septic system located at the subject property will require proper abandonment in accordance with applicable regulatory requirements.

3. Laboratory analysis of samples S-13, S-14, S-15, and S-16 collected from outside the limits of the pad-mounted electrical transformer revealed non detectable concentrations of PCBs in all samples. As such, in our opinion, remediation of soils in proximity to the electrical transformer is not required.

4. The results of laboratory analysis of sample S-17 collected from sediment material contained within the bottom of a drainage pit associated with Building 2 revealed concentrations of Arochlor-1260 and select metals in excess of NYSDEC RSCO. Based on this information, it is our opinion that remediation of this drainage pit and any outfall structure(s) are warranted under the jurisdiction of applicable regulatory agencies.

5. Samples S-18 and S-19 were collected from beneath one (1) 275-gallon diesel fuel AST at Building 3 and one (1) 275-gallon fuel oil AST at Building 9. Laboratory analysis of these samples revealed levels of select SVOCs in excess of NYSDEC RSCO in sample S-18. Accordingly, it is our opinion that remediation of soils beneath the 275-gallon diesel fuel AST located outside the northern portion of Building 3 is warranted. The levels of contaminants identified within sample S-19 were within NYSDEC RSCO. Therefore, in our opinion, remediation of soils at this sample location is not required.

6. Results of laboratory analysis of sample S-20 collected from the drum storage area at the former gasoline service station revealed levels of benzo-a-pyrene and select metals in excess of NYSDEC RSCO. Based on these findings and limited nature of sampling activities performed at this location, it is our opinion that remedial efforts are warranted.

7. Laboratory analysis of aqueous samples AQ-1 and AQ-2 collected from the nursery property revealed levels of bis(2-ethylhexyl)phthalate in sample AQ-1 and lead in non-filtered sample AQ-2, both of which exceeded applicable groundwater standards. Notably, contact with the NYSDEC regarding Spill # 9103244 at the Mobil site (located across Crompond Road) indicated that contaminants associated with this spill include BTEX constituents. Based on these findings, it is our opinion that groundwater quality in the areas investigated has not been adversely affected relative to the BTEX constituents detected at the Mobil site. Furthermore, the detected concentrations of bis(2-ethylhexyl)phthalate and lead are, in our opinion, minor exceedances and not representative of a significant environmental concern. As such, no further action is warranted.

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Should you have any questions regarding the contents of this report, please feel free to contact this office.

Very truly yours,

SOIL MECHANICS ENVIRONMENTAL SERVICES

Daren Murphy
Environmental Scientist

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Director of Environmental Services

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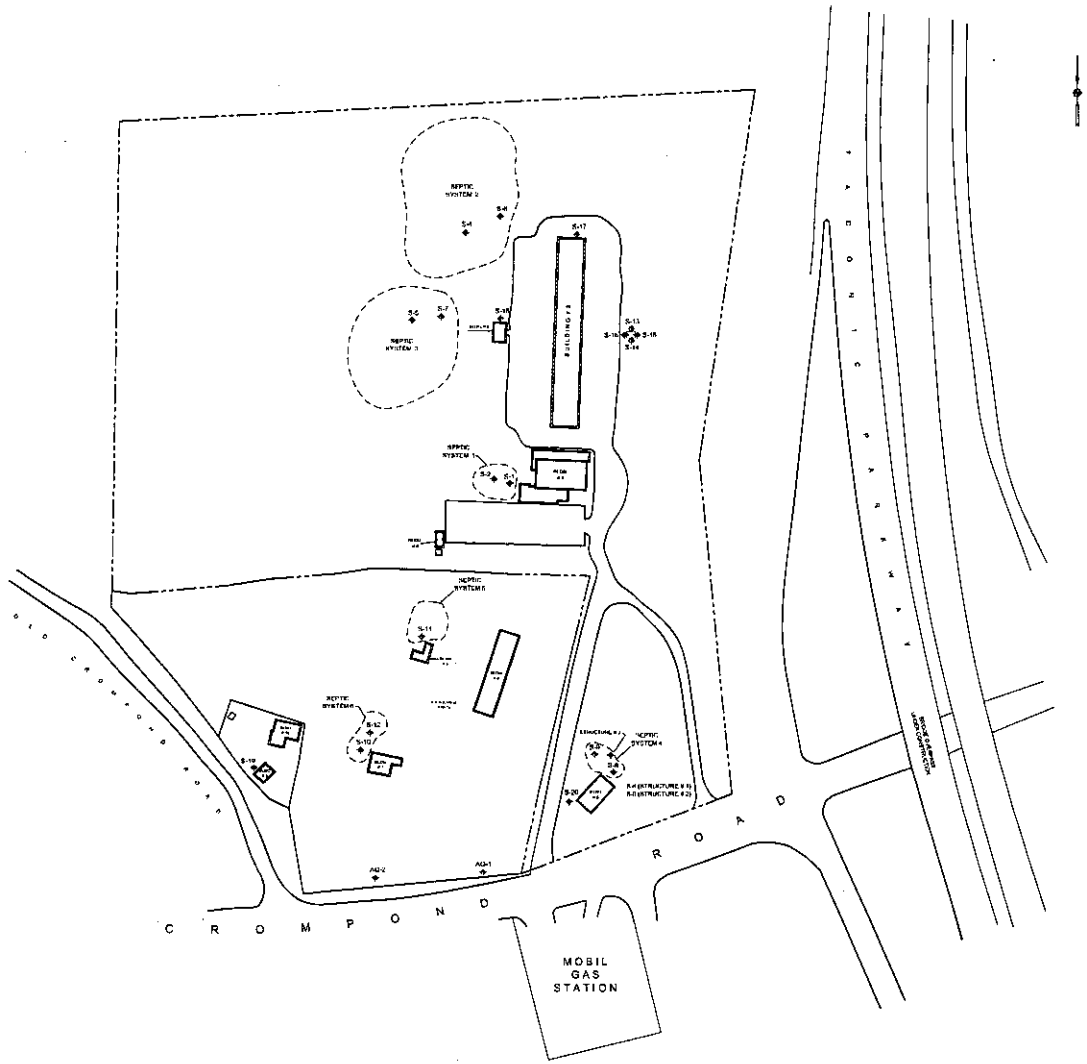
09-089.10

APPENDIX

SAMPLE LOCATION PLAN



KEY:

APPROXIMATE LOCATION OF SEPTIC SYSTEM.

S-1 = SAMPLE LOCATIONS.

AQ-2 = AQ = AQUEOUS SAMPLE LOCATIONS.

SOIL MECHANICS
ENVIRONMENTAL SERVICES
3770 MERRICK ROAD * SEAFORD, NEW YORK 11783 * 516 - 221-7500

SAMPLE LOCATION PLAN

YORKTOWN HEIGHTS, NEW YORK

DRAWING SCALE:	DRAWING DATE			DRAWING NUMBER
1" = 125'±	MARCH 25, 2010			09R089
	DRAWN BY: NAR	CHECKED BY: DM	REVISED DATE:	SHEET 1 OF 1

TABLE A
Sample Summary Sheet

Sample ID	Matrix	Sample Depth	Sample Location	Laboratory Parameters
S-1	Soil	7.0'	Septic Tank – Septic System 1	VOCs (Method 8260), SVOCs – BN (Method 8270), PCBs, and TAL Metals
S-2	Soil	3.0'	Tile Field – Septic System 1	Same as above
S-4	Soil	3.0'	Tile Field – Septic System 2	Same as Above
S-5	Soil	2.0'	Tile Field – Septic System 3	Same as Above
S-6	Soil/ Sludge	3.0'	Dosing Tank – Septic System 2	Same as Above
S-7	Soil/ Sludge	4.0'	Septic Tank – Septic System 3	Same as Above
S-8	Soil/ Sludge	7.0'	Structure #1 – Septic System 4	Same as Above
S-9	Soil/ Sludge	11.0'	Structure #2 – Septic System 4	Same as Above
S-10	Soil/ Sludge	4.0'	Septic Tank – Septic System 6	VOCs (Method 8260), SVOCs – BN (Method 8270), PCBs, TAL Metals, and Pesticides
S-11	Soil/ Sludge	7.0'	Tile Field – Septic System 5	Same as Above
S-12	Soil	5.0'	Tile Field – Septic System 6	Same as Above

TABLE A (Continued)
Sample Summary Sheet

Sample ID	Matrix	Sample Depth	Sample Location	Laboratory Parameters
S-13	Soil	0-1'	Electrical Transformer (North)	PCBs
S-14	Soil	0-1'	Electrical Transformer (South)	PCBs
S-15	Soil	0-1'	Electrical Transformer (East)	PCBs
S-16	Soil	0-1'	Electrical Transformer (West)	PCBs
S-17	Soil	0-1'	Drainage Pit – Building 2	VOCs (Method 8260), SVOCs – BN (Method 8270), PCBs, and TAL Metals
S-18	Soil	0-1'	275-Gallon Diesel Fuel AST – Building 3	VOCs (Method 8260) and SVOCs – BN (Method 8270)
S-19	Soil	0-1'	275-Gallon Fuel Oil AST – Building 9	Same as above
S-20	Soil	0-1'	Drum Storage at Former Gasoline Service Station	VOCs (Method 8260), SVOCs – BN (Method 8270), PCBs, and TAL Metals
AQ-1	Aqueous	---	Nursery Property	VOCs (Method 8260), SVOC-s – BN (Method 8270), and Lead
AQ-2	Aqueous	---	Nursery Property	Same as above

09-089: Crompond Road, Yorktown Heights, N.Y.

TABLES #1 - #14

TABLE #1
Soil Samples S-1, S-2, S-4, S-5, S-6, & S-7
VOCs (Method 8260)

Sample ID PARAMETER	S-1	S-2	S-4	S-5	S-6	S-7	RSCO (1)
1,2,4-Trimethylbenzene	<6.03	<5.41	<5.55	<6.39	171	<17.5	10,000
1,3,5-Trimethylbenzene	<6.03	<5.41	<5.55	<6.39	57.1	<17.5	3,300
1,4-Dichlorobenzene	<6.03	<5.41	<5.55	<6.39	173	<17.5	8,500
2-Butanone (MEK)	<12.1	<10.8	<11.1	<12.8	<76.5	40.3	300
Carbon Disulfide	<6.03	<5.41	<5.55	<6.39	42.3	<17.5	2,700
p-Isopropyltoluene	27.8	<5.41	<5.55	<6.39	158	<17.5	10,000
Toluene	487	<5.41	<5.55	<6.39	<38.3	<17.5	1,500

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #1 (Continued)
Soil Samples S-8, S-9, S-10, S-11, & S-12
VOCs (Method 8260)

Sample ID PARAMETER	S-8	S-9	S-10	S-11	S-12	RSCO (1)
1,2,3-Trichlorobenzene	<175	<73	418	<7.78	<5.92	NA
1,2,4-Trichlorobenzene	<175	<73	768	<7.78	<5.92	3,400
1,2,4-Trimethylbenzene	***10,393***	515	<196	<7.78	<5.92	10,000
1,2-Dichlorobenzene	1,897	<73	4,485	<7.78	<5.92	7,900
1,3,5-Trimethylbenzene	***3,800***	123	<196	<7.78	<5.92	3,300
1,3-Dichlorobenzene	985	<73	1,143	<7.78	<5.92	1,600
1,4-Dichlorobenzene	2,633	<73	1,837	<7.78	<5.92	8,500
Chlorobenzene	***2,865***	<73	<196	<7.78	<5.92	1,700
Ethyl Benzene	641	165	<196	<7.78	<5.92	5,500
Isopropylbenzene	338	<73	<196	<7.78	<5.92	2,300
Naphthalene	823	<73	236	<7.78	<5.92	13,000
n-Propylbenzene	1,240	104	<196	<7.78	<5.92	3,700
o-Xylene	***1,219***	513	<196	<7.78	<5.92	1,200
p&m-Xylene	***2,707***	636	<392	<15.6	<11.8	1,200
p-Isopropyltoluene	1,742	210	873	<7.78	<5.92	10,000
Sec-Butylbenzene	881	137	<196	<7.78	<5.92	10,000
Toluene	584	<73	***22,853***	<7.78	<5.92	1,500

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- NA = Not Available.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #2
Soil Samples S-1, S-2, S-4, S-5, S-6, & S-7
SVOCs – BN (Method 8270)

Sample ID PARAMETER	S-1	S-2	S-4	S-5	S-6	S-7	RSCO (1)
1,4-Dichlorobenzene	<48.2	<43.3	<44.4	<51.1	1,499	<280	8,500
Phenanthrene	<48.2	<43.3	<43.3	<51.1	<612	765	50,000
Fluoranthene	<48.2	<43.3	<43.3	<51.1	<612	858	50,000
Pyrene	<48.2	<43.3	<43.3	<51.1	<612	532	50,000
Butylbenzylphthalate	99.7	<43.3	<43.3	<51.1	<612	<280	50,000
Chrysene	<48.2	<43.3	<43.3	<51.1	<612	326	400
Benzo-a-anthracene	<48.2	<43.3	<43.3	<51.1	<612	*303*	224
Benzo-b-fluoranthene	<48.2	<43.3	<43.3	<51.1	<612	298	1,100

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #2 (Continued)
Soil Samples S-8, S-9, S-10, S-11, & S-12
SVOCs – BN (Method 8270)

Sample ID PARAMETER	S-8	S-9	S-10	S-11	S-12	RSCO (1)
1,3-Dichlorobenzene	1,267	<1,169	*3,622*	<62.2	<47.3	1,600
1,4-Dichlorobenzene	3,262	<1,169	5,713	<62.2	80.5	8,500
1,2-Dichlorobenzene	1,995	<1,169	*13,329*	<62.2	<47.3	7,900
1,2,4-Trichlorobenzene	<140	<1,169	*7,004*	<62.2	<47.3	3,400
Naphthalene	2,116	<1,169	1,218	<62.2	<47.3	13,000
Phenanthrene	602	3,292	<314	<62.2	<47.3	50,000
Fluoranthene	544	4,909	<314	<62.2	<47.3	50,000
Pyrene	527	9,896	<314	<62.2	<47.3	50,000
Butylbenzylphthalate	<140	15,155	<314	<62.2	<47.3	50,000
Chrysene	224	2,941	<314	<62.2	<47.3	400
Benzo-a-anthracene	*238*	3,877	<314	<62.2	<47.3	224
Bis(2-ethylexyl)phthalate	3,367	287,135	4,030	<778	<592	50,000
Di-n-octylphthalate	<140	14,746	<314	<62.2	<47.3	50,000
Benzo-b-fluoranthene	205	*3,097*	<314	<62.2	<47.3	1,100
Benzo-a-pyrene	*154*	*1,909*	<314	<62.2	<47.3	61
Indeno(1,2,3-cd)pyrene	<140	1,325	<314	<62.2	<47.3	3,200
Benzo-g,h,i-perylene	<140	3,721	<314	<62.2	<47.3	50,000

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #3
Soil Samples S-1, S-2, S-4, S-5, S-6, & S-7
PCBs (Method 8082)

Sample ID PARAMETER	S-1	S-2	S-4	S-5	S-6	S-7	RSCO (1)
PCBs	-	-	-	-	-	-	-

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #3 (Continued)
Soil Samples S-8, S-9, S-10, S-11, & S-12
PCBs (Method 8082)

Sample ID PARAMETER	S-8	S-9	S-10	S-11	S-12	RSCO (1)
PCBs	-	-	-	-	-	-

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #4
Soil Samples S-1, S-2, S-4, S-5, S-6, & S-7
Metals Analysis

Sample ID PARAMETER	S-1	S-2	S-4	S-5	S-6	S-7	RSCO (1)	Background (*)
Aluminum	26,371	11,977	12,567	13,441	26,029	6,885	SB	33,000
Arsenic	<1.65	<1.65	<1.65	<1.70	<10.1	4.77	7.5	3-12**
Barium	***448***	32.8	26.8	45.2	***428***	122	300	15-600
Calcium	7,599	2,781	2,500	1,249	21,207	10,713	SB	130-35,000**
Chromium	***21.1***	***12***	***10.3***	***10.2***	***36.6***	***17.8***	10	1.5-40**
Cobalt	12.6	11.5	7.53	4.16	12	5.82	30	2.5-60**
Copper	***31.5***	***85.3***	***58.3***	***69.8***	***728***	***1,002***	25	1-50
Iron	***34,748***	***14,876***	***22,902***	***13,989***	***25,780***	***41,446***	2,000	2,000-550,000
Lead	6.02	2.32	14.4	7.35	108	93.1	200-500	200-500
Magnesium	15,673	7,753	7,073	4,567	5,837	1,488	SB	100-5,000
Manganese	443	100	297	107	368	184	SB	50-5,000
Mercury	<0.02	<0.02	0.025	***0.114***	***1.20***	***2.48***	0.1	0.001-0.2
Nickel	***16.9***	***19.4***	***15.8***	6.41	***25***	***15.8***	13	0.5-25
Potassium	12,200	1,056	667	1,561	3,232	685	SB	8,500-43,000**
Sodium	152	158	27.5	67.5	176	81.2	SB	6,000-8,000
Thallium	8.27	3.46	<1.65	3.45	<10.1	<4.60	SB	NA
Vanadium	47.8	21	11	16.7	32.3	17.8	150	1-300
Zinc	***69***	***85.2***	***68.9***	***31.9***	***840***	***474***	20	9-50

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in mg/kg.
- SB = Site Background.
- NA = Not Available.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).
- (*) Eastern USA Background (** New York State Background).

TABLE #4 (Continued)
Soil Samples S-8, S-9, S-10, S-11, & S-12
Metals Analysis

Sample ID PARAMETER	S-8	S-9	S-10	S-11	S-12	RSCO (1)	Background (*)
Aluminum	10,668	12,840	4,858	14,606	17,075	SB	33,000
Antimony	<2.26	5.38	<5.05	<2.27	<1.67	SB	NA
Arsenic	***10.7***	***8.55***	<5.05	<2.27	<1.67	7.5	3-12**
Barium	117	***580***	***555***	226	71.7	300	15-600
Cadmium	***3.28***	***15.5***	***3.93***	<1.38	<1.01	1.0	0.1-1
Calcium	12,533	20,192	14,178	1,792	1,427	SB	130-35,000**
Chromium	***19.3***	***58.1***	***14.2***	8.72	***10.7***	10	1.5-40**
Cobalt	5.70	12.1	<5.05	4.13	6.17	30	2.5-60**
Copper	***124***	***350***	***1,842***	***238***	***30.7***	25	1-50
Iron	***16,708***	***28,200***	***9,160***	***12,516***	***21,437***	2,000	2,000-550,000
Lead	224	302	226	69.2	6.33	200-500	200-500
Magnesium	3,638	10,342	1,443	5,905	5,693	SB	100-5,000
Manganese	134	364	76.2	114	241	SB	50-5,000
Mercury	***0.227***	***0.249***	***3.86***	0.099	0.022	0.1	0.001-0.2
Nickel	12	***38.4***	***25.4***	6.37	7.12	13	0.5-25
Potassium	1,258	1,866	917	2,631	5,571	SB	8,500-43,000**
Silver	<2.26	<3.91	17	<2.27	<1.67	SB	NA
Sodium	152	632	432	163	99.3	SB	6,000-8,000
Thallium	<2.26	<3.91	<5.05	3.93	4.53	SB	NA
Vanadium	19.8	29.1	7.98	15.7	25.8	150	1-300
Zinc	***145***	***1,061***	***1,601***	***139***	***56.6***	20	9-50

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in mg/kg.
- SB = Site Background.
- NA = Not Available.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).
- (*) Eastern USA Background (** New York State Background).

TABLE #5
Soil Samples S-10, S-11, & S-12
Pesticides (Method 8081A)

Sample ID PARAMETER	S-10	S-11	S-12	RSCO (1)
Pesticides	-	-	-	-

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #6
Soil Samples S-13, S-14, S-15, & S-16
PCBs (Method 8082)

Sample ID PARAMETER	S-13	S-14	S-15	S-16	RSCO (1)
PCBs	-	-	-	-	-

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #7
Soil Samples S-17, S-18, S-19, & S-20
VOCs (Method 8260)

Sample ID PARAMETER	S-17	S-18	S-19	S-20	RSCO (1)
VOCs	-	-	-	-	-

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #8
Soil Samples S-17, S-18, S-19, & S-20
SVOCs – BN (Method 8270)

Sample ID PARAMETER	S-17	S-18	S-19	S-20	RSCO (1)
Phenanthrene	50.6	198	94.1	107	50,000
Fluoranthene	71.8	497	73.2	128	50,000
Pyrene	59.5	481	113	155	50,000
Chrysene	62.8	***476***	58.4	115	400
Benzo-a-anthracene	<48.9	***266***	<52.3	74.3	224
Bis(2-ethylhexyl)phthalate	1,509	<1,168	<653	<581	50,000
Benzo-b-fluoranthene	55.5	***518***	<52.3	149	220
Benzo-k-fluoranthene	<48.9	198	<52.3	<46.5	220
Benzo-a-pyrene	<48.9	***377***	<52.3	***120***	61
Indeno(1,2,3-cd)pyrene	<48.9	339	<52.3	75.1	3,200
Dibenzo-a,h,-anthracene	<48.9	96.5	<52.3	<46.5	143
Benzo-g,h,i-perylene	<48.9	344	59.2	106	50,000

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #9
Soil Samples S-17 & S-20
PCBs (Method 8082)

Sample ID PARAMETER	S-17	S-20	RSCO (1)
Arochlor-1260	*105,027*	<200	1,000

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/kg.
- Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).

TABLE #10
Soil Samples S-17 & S-20
Metals Analysis

Sample ID PARAMETER	S-17	S-20	RSCO (1)	Background (*)
Aluminum	7,241	15,199	SB	33,000
Arsenic	***12***	5.20	7.5	3-12**
Barium	69.5	51.5	300	15-600
Cadmium	***2.31***	<1.01	1.0	0.1-1
Calcium	47,410	14,418	SB	130-35,000**
Chromium	***20***	***14.7***	10	1.5-40**
Cobalt	6.95	10.2	30	2.5-60
Copper	***222***	***31***	25	1-50
Iron	***15,814***	***25,611***	2,000	2,000-550,000
Lead	114	26	200-500	200-500
Magnesium	17,412	9,188	SB	100-5,000
Manganese	290	922	SB	50-5,000
Mercury	***0.135***	0.041	0.1	0.001-0.2
Nickel	***19.8***	***18.4***	13	0.5-25
Potassium	2,377	1,467	SB	8,500-43,000
Sodium	173	61.6	SB	6,000-8,000
Thallium	3.04	<1.67	SB	NA
Vanadium	35.5	17.7	150	1-300
Zinc	***414***	***98.4***	20	9-50

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in mg/kg.
- SB = Site Background.
- NA = Not Available.
- (1) Recommended Soil Cleanup Objectives (RSCO) from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046: Determination of Soil Cleanup Objectives and Cleanup Levels (Dated January 24, 1994).
- (*) Eastern USA Background (** New York State Background).

TABLE #11
Aqueous Samples AQ-1 & AQ-2
VOCs (Method 8260)

Sample ID PARAMETER	AQ-1	AQ-2	Standard (2)
VOCs	-	-	-

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/L.
- (2) Water Quality Standards from 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations (Last Amended August 1999).

TABLE #12
Aqueous Samples AQ-1 & AQ-2
SVOCs – BN (Method 8270)

Sample ID PARAMETER	AQ-1	AQ-2	Standard (2)
Bis(2-ethylhexyl)phthalate	*11.8*	<10	5.0

NOTES:

- Parameters not listed in table were not detected above minimum detection limit (MDL).
- Results reported in ug/L.
- (2) Water Quality Standards from 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations (Last Amended August 1999).

TABLE #13
Aqueous Samples AQ-1 & AQ-2
Total Lead Analysis (Filtered)

Sample ID PARAMETER	AQ-1	AQ-2	Standard (2)
Lead	<0.05	<0.05	0.025

NOTES:

- Results reported in mg/L.
- (2) Water Quality Standards from 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations (Last Amended August 1999).

TABLE #14
Aqueous Samples AQ-1 & AQ-2
Total Lead Analysis (Non-Filtered)

Sample ID PARAMETER	AQ-1	AQ-2	Standard (2)
Lead	<0.05	***0.08***	0.025

NOTES:

- Results reported in mg/L.
- (2) Water Quality Standards from 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations (Last Amended August 1999).

LABORATORY ANALYSIS REPORTS

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL #1193350

March 23, 2010

Soil Mechanics
Bob Cardinale
3770 Merrick Road
Seaford, New York 11783

Re: [redacted]

Dear Mr. Cardinale

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on March 17, 2010. Long Island Analytical Laboratories analyzed the samples on March 19, 2010 for the following:

CLIENT ID	ANALYSIS
S-1	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals
S-2	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals
S-4	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals
S-5	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals
S-6	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals
S-7	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals
S-8	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals

Samples received at 1.4°C.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted with the appropriate flag. Report shall not be reproduced except in full, without the written approval of the laboratory. Results relate only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-1)
Date received: 3/17/10	Laboratory ID: 1193350
Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	6.03	<6.03	
1,1,1-TRICHLOROETHANE	71-55-6	6.03	<6.03	
1,1,2,2-TETRACHLOROETHANE	79-34-5	6.03	<6.03	
1,1,2-TRICHLOROETHANE	79-00-5	6.03	<6.03	
1,1-DICHLOROETHANE	75-34-3	6.03	<6.03	
1,1-DICHLOROETHENE	75-35-4	6.03	<6.03	
1,1-DICHLOROPROPENE	563-58-6	6.03	<6.03	
1,2,3-TRICHLOROBENZENE	87-61-6	6.03	<6.03	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	6.03	<6.03	
1,2,4-TRICHLOROBENZENE	120-82-1	6.03	<6.03	
1,2,4-TRIMETHYLBENZENE	95-63-6	6.03	<6.03	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	6.03	<6.03	
1,2-DIBROMOETHANE	106-93-4	6.03	<6.03	
1,2-DICHLOROBENZENE	95-50-1	6.03	<6.03	
1,2-DICHLOROETHANE	107-06-2	6.03	<6.03	
1,2-DICHLOROPROPANE	78-87-5	6.03	<6.03	
1,3,5-TRIMETHYLBENZENE	108-67-8	6.03	<6.03	
1,3-DICHLOROBENZENE	541-73-1	6.03	<6.03	
1,3-DICHLOROPROPANE	142-28-9	6.03	<6.03	
1,4-DICHLOROBENZENE	106-46-7	6.03	<6.03	
2,2-DICHLOROPROPANE	594-20-7	6.03	<6.03	
2-BUTANONE (MEK)	78-93-3	12.1	<12.1	
2-CHLOROETHYL VINYL ETHER	110-75-8	6.03	<6.03	
2-CHLOROTOLUENE	95-49-8	6.03	<6.03	
2-HEXANONE	591-78-6	6.03	<6.03	
4-CHLOROTOLUENE	106-43-4	6.03	<6.03	
ACETONE	67-64-1	60.3	<60.3	
BENZENE	71-43-2	6.03	<6.03	
BROMOBENZENE	108-86-1	6.03	<6.03	
BROMOCHLOROMETHANE	74-97-5	6.03	<6.03	
BROMODICHLOROMETHANE	75-27-4	6.03	<6.03	
BROMOFORM	75-25-2	6.03	<6.03	
BROMOMETHANE	74-83-9	6.03	<6.03	
CARBON DISULFIDE	75-15-0	6.03	<6.03	
CARBON TETRACHLORIDE	56-23-5	6.03	<6.03	
CHLOROBENZENE	108-90-7	6.03	<6.03	

MDL = Minimum Detection Limit
Calculated on a dry weight basis
EPA Method: 8260B

LONG ISLAND ANALYTICAL LABORATORIES INC.
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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-1)
Date received: 3/17/10	Laboratory ID: 1193350
Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	6.03	<6.03	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	6.03	<6.03	
CHLOROFORM	67-66-3	6.03	<6.03	
CHLOROMETHANE	74-87-3	6.03	<6.03	
cis[Z]-1,2DICHLOROETHENE	156-59-2	6.03	<6.03	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	6.03	<6.03	
DIBROMOCHLOROMETHANE	124-48-1	6.03	<6.03	
DIBROMOMETHANE	74-95-3	6.03	<6.03	
DICHLORODIFLUOROMETHANE	75-71-8	6.03	<6.03	
ETHYLBENZENE	100-41-4	6.03	<6.03	
HEXACHLOROBUTADIENE	87-68-3	6.03	<6.03	
ISOPROPYLBENZENE	98-82-8	6.03	<6.03	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	6.03	<6.03	
METHYLENE CHLORIDE	75-09-2	6.03	<6.03	
MTBE	1634-04-4	6.03	<6.03	
NAPHTHALENE	91-20-3	6.03	<6.03	
n-BUTYLBENZENE	104-51-8	6.03	<6.03	
n-PROPYLBENZENE	103-65-1	6.03	<6.03	
o-XYLENE	95-47-6	6.03	<6.03	
p&m-XYLENE	1330-20-7	12.1	<12.1	
p-ISOPROPYLTOLUENE	99-87-6	6.03	27.8	
sec-BUTYLBENZENE	135-98-8	6.03	<6.03	
STYRENE	100-42-5	6.03	<6.03	
tert-BUTYLBENZENE	98-06-6	6.03	<6.03	
TETRACHLOROETHYLENE	127-18-4	6.03	<6.03	
TOLUENE	108-88-3	6.03	487	
trans[E]-1,2-DICHLOROETHENE	156-60-5	6.03	<6.03	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	6.03	<6.03	
TRICHLOROETHYLENE	79-01-6	6.03	<6.03	
TRICHLOROMONOFLUOROMETHANE	75-69-4	6.03	<6.03	
VINYL ACETATE	108-05-4	6.03	<6.03	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-1)
Date received: 3/17/10	Laboratory ID: 1193350
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	48.2	<48.2	4.B
1,3-DICHLOROBENZENE	541-73-1	48.2	<48.2	4.B
1,4-DICHLOROBENZENE	106-46-7	48.2	<48.2	4.B
1,2-DICHLOROBENZENE	95-50-1	48.2	<48.2	4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	48.2	<48.2	4.B
HEXACHLOROETHANE	67-72-1	48.2	<48.2	4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	48.2	<48.2	4.B
NITROBENZENE	98-95-3	48.2	<48.2	4.B
ISOPHORONE	78-59-1	48.2	<48.2	4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	48.2	<48.2	4.B
1,2,4-TRICHLOROBENZENE	120-82-1	48.2	<48.2	4.B
NAPHTHALENE	91-20-3	48.2	<48.2	4.B
HEXACHLOROBUTADIENE	87-68-3	48.2	<48.2	4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	48.2	<48.2	4.B
2-CHLORONAPHTHALENE	91-58-7	48.2	<48.2	4.B
ACENAPHTHYLENE	208-96-8	48.2	<48.2	4.B
DIMETHYLPHTHALATE	131-11-3	48.2	<48.2	4.B
2,6-DINITROTOLUENE	606-20-2	48.2	<48.2	4.B
ACENAPHTHENE	83-32-9	48.2	<48.2	4.B
2,4-DINITROTOLUENE	121-14-2	48.2	<48.2	4.B
FLUORENE	86-73-7	48.2	<48.2	4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	48.2	<48.2	4.B
DIETHYLPHTHALATE	84-66-2	48.2	<48.2	4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	48.2	<48.2	4.B
HEXACHLOROBENZENE	118-74-1	48.2	<48.2	4.B
PHENANTHRENE	85-01-8	48.2	<48.2	4.B
ANTHRACENE	120-12-7	48.2	<48.2	4.B
DI-n-BUTYLPHTHALATE	84-74-2	603	<603	
FLUORANTHENE	206-44-0	48.2	<48.2	4.B
PYRENE	129-00-0	48.2	<48.2	4.B
BUTYLBENZYLPHTHALATE	85-68-7	48.2	99.7	4.K 4.B
CHRYSENE	218-01-9	48.2	<48.2	4.B
BENZO-a-ANTHRACENE	56-55-3	48.2	<48.2	4.B
3,3-DICHLOROBENZIDINE	91-94-1	48.2	<48.2	4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	603	<603	
DI-n-OCTYLPHTHALATE	117-84-0	48.2	<48.2	4.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-1)
Date received: 3/17/10	Laboratory ID: 1193350
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	48.2	<48.2	4.B
BENZO-k-FLUOROANTHENE	207-08-9	48.2	<48.2	4.B
BENZO-a-PYRENE	50-32-8	48.2	<48.2	4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	48.2	<48.2	4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	48.2	<48.2	4.B
BENZO-g,h,i-PERYLENE	191-24-2	48.2	<48.2	4.B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi

Michael Veraldi-Laboratory Director

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-1)
Date received: 3/17/10	Laboratory ID: 1193350
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-1)
Date received: 3/17/10	Laboratory ID: 1193350
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	1.65	03/19/2010	26,371	4.F
ANTIMONY, Sb	1.65	03/19/2010	<1.65	4.G
ARSENIC, As	1.65	03/19/2010	<1.65	
BARIUM, Ba	3.33	03/19/2010	448	
BERYLLIUM, Be	1.65	03/19/2010	<1.65	
CADMIUM, Cd	1.00	03/19/2010	<1.00	
CALCIUM, Ca	1.65	03/19/2010	7,599	4.F
CHROMIUM, Cr	1.65	03/19/2010	21.1	
COBALT, Co	1.65	03/19/2010	12.6	
COPPER, Cu	1.65	03/19/2010	31.5	4.G
IRON, Fe	1.65	03/19/2010	34,748	4.F
LEAD, Pb	1.65	03/19/2010	6.02	
MAGNESIUM, Mg	1.65	03/19/2010	15,673	4.F
MANGANESE, Mn	1.65	03/19/2010	443	
MERCURY, Hg•	0.02	03/19/2010	<0.02	
NICKEL, Ni	1.65	03/19/2010	16.9	
POTASSIUM, K	1.65	03/19/2010	12,200	4.F
SELENIUM, Se	1.65	03/19/2010	<1.65	
SILVER, Ag	1.65	03/19/2010	<1.65	
SODIUM, Na	1.65	03/19/2010	152	
THALIUM, Tl	1.65	03/19/2010	8.27	
VANADIUM, V	1.65	03/19/2010	47.8	
ZINC, Zn	1.65	03/19/2010	69	

MDL = Minimum Detection Limit
Performed by SW-846 Method 6010
•Method: EPA 7471A

Calculated on a dry weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-2)
Date received: 3/17/10	Laboratory ID: 1193351
Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	5.41	<5.41	
1,1,1-TRICHLOROETHANE	71-55-6	5.41	<5.41	
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.41	<5.41	
1,1,2-TRICHLOROETHANE	79-00-5	5.41	<5.41	
1,1-DICHLOROETHANE	75-34-3	5.41	<5.41	
1,1-DICHLOROETHENE	75-35-4	5.41	<5.41	
1,1-DICHLOROPROPENE	563-58-6	5.41	<5.41	
1,2,3-TRICHLOROBENZENE	87-61-6	5.41	<5.41	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	5.41	<5.41	
1,2,4-TRICHLOROBENZENE	120-82-1	5.41	<5.41	
1,2,4-TRIMETHYLBENZENE	95-63-6	5.41	<5.41	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.41	<5.41	
1,2-DIBROMOETHANE	106-93-4	5.41	<5.41	
1,2-DICHLOROBENZENE	95-50-1	5.41	<5.41	
1,2-DICHLOROETHANE	107-06-2	5.41	<5.41	
1,2-DICHLOROPROPANE	78-87-5	5.41	<5.41	
1,3,5-TRIMETHYLBENZENE	108-67-8	5.41	<5.41	
1,3-DICHLOROBENZENE	541-73-1	5.41	<5.41	
1,3-DICHLOROPROPANE	142-28-9	5.41	<5.41	
1,4-DICHLOROBENZENE	106-46-7	5.41	<5.41	
2,2-DICHLOROPROPANE	594-20-7	5.41	<5.41	
2-BUTANONE (MEK)	78-93-3	10.8	<10.8	
2-CHLOROETHYL VINYL ETHER	110-75-8	5.41	<5.41	
2-CHLOROTOLUENE	95-49-8	5.41	<5.41	
2-HEXANONE	591-78-6	5.41	<5.41	
4-CHLOROTOLUENE	106-43-4	5.41	<5.41	
ACETONE	67-64-1	54.1	<54.1	
BENZENE	71-43-2	5.41	<5.41	
BROMOBENZENE	108-86-1	5.41	<5.41	
BROMOCHLOROMETHANE	74-97-5	5.41	<5.41	
BROMODICHLOROMETHANE	75-27-4	5.41	<5.41	
BROMOFORM	75-25-2	5.41	<5.41	
BROMOMETHANE	74-83-9	5.41	<5.41	
CARBON DISULFIDE	75-15-0	5.41	<5.41	
CARBON TETRACHLORIDE	56-23-5	5.41	<5.41	
CHLOROBENZENE	108-90-7	5.41	<5.41	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-2)
Date received: 3/17/10	Laboratory ID: 1193351
Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	5.41	<5.41	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	5.41	<5.41	
CHLOROFORM	67-66-3	5.41	<5.41	
CHLOROMETHANE	74-87-3	5.41	<5.41	
cis[Z]-1,2DICHLOROETHENE	156-59-2	5.41	<5.41	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	5.41	<5.41	
DIBROMOCHLOROMETHANE	124-48-1	5.41	<5.41	
DIBROMOMETHANE	74-95-3	5.41	<5.41	
DICHLORODIFLUOROMETHANE	75-71-8	5.41	<5.41	
ETHYLBENZENE	100-41-4	5.41	<5.41	
HEXACHLOROBUTADIENE	87-68-3	5.41	<5.41	
ISOPROPYLBENZENE	98-82-8	5.41	<5.41	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	5.41	<5.41	
METHYLENE CHLORIDE	75-09-2	5.41	<5.41	
MTBE	1634-04-4	5.41	<5.41	
NAPHTHALENE	91-20-3	5.41	<5.41	
n-BUTYLBENZENE	104-51-8	5.41	<5.41	
n-PROPYLBENZENE	103-65-1	5.41	<5.41	
o-XYLENE	95-47-6	5.41	<5.41	
p&m-XYLENE	1330-20-7	10.8	<10.8	
p-ISOPROPYLTOLUENE	99-87-6	5.41	<5.41	
sec-BUTYLBENZENE	135-98-8	5.41	<5.41	
STYRENE	100-42-5	5.41	<5.41	
tert-BUTYLBENZENE	98-06-6	5.41	<5.41	
TETRACHLOROETHYLENE	127-18-4	5.41	<5.41	
TOLUENE	108-88-3	5.41	<5.41	
trans[E]-1,2-DICHLOROETHENE	156-60-5	5.41	<5.41	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	5.41	<5.41	
TRICHLOROETHYLENE	79-01-6	5.41	<5.41	
TRICHLOROMONOFLUOROMETHANE	75-69-4	5.41	<5.41	
VINYL ACETATE	108-05-4	5.41	<5.41	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-2)
Date received: 3/17/10	Laboratory ID: 1193351
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	43.3	<43.3	4,B
1,3-DICHLOROBENZENE	541-73-1	43.3	<43.3	4,B
1,4-DICHLOROBENZENE	106-46-7	43.3	<43.3	4,B
1,2-DICHLOROBENZENE	95-50-1	43.3	<43.3	4,B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	43.3	<43.3	4,B
HEXACHLOROETHANE	67-72-1	43.3	<43.3	4,B
n-NITROSODI-n-PROPYLAMINE	621-64-7	43.3	<43.3	4,B
NITROBENZENE	98-95-3	43.3	<43.3	4,B
ISOPHORONE	78-59-1	43.3	<43.3	4,B
bis(2-CHLOROETHOXY)METHANE	111-91-1	43.3	<43.3	4,B
1,2,4-TRICHLOROBENZENE	120-82-1	43.3	<43.3	4,B
NAPHTHALENE	91-20-3	43.3	<43.3	4,B
HEXACHLOROBUTADIENE	87-68-3	43.3	<43.3	4,K 4,B
HEXACHLOROCYCLOPENTADIENE	77-47-4	43.3	<43.3	4,B
2-CHLORONAPHTHALENE	91-58-7	43.3	<43.3	4,B
ACENAPHTHYLENE	208-96-8	43.3	<43.3	4,B
DIMETHYLPHTHALATE	131-11-3	43.3	<43.3	4,B
2,6-DINITROTOLUENE	606-20-2	43.3	<43.3	4,B
ACENAPHTHENE	83-32-9	43.3	<43.3	4,B
2,4-DINITROTOLUENE	121-14-2	43.3	<43.3	4,B
FLUORENE	86-73-7	43.3	<43.3	4,B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	43.3	<43.3	4,B
DIETHYLPHTHALATE	84-66-2	43.3	<43.3	4,B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	43.3	<43.3	4,B
HEXACHLOROBENZENE	118-74-1	43.3	<43.3	4,B
PHENANTHRENE	85-01-8	43.3	<43.3	4,B
ANTHRACENE	120-12-7	43.3	<43.3	4,B
DI-n-BUTYLPHTHALATE	84-74-2	541	<541	
FLUORANTHENE	206-44-0	43.3	<43.3	4,B
PYRENE	129-00-0	43.3	<43.3	4,B
BUTYLBENZYLPHTHALATE	85-68-7	43.3	<43.3	4,K 4,B
CHRYSENE	218-01-9	43.3	<43.3	4,B
BENZO-a-ANTHRACENE	56-55-3	43.3	<43.3	4,B
3,3-DICHLOROBENZIDINE	91-94-1	43.3	<43.3	4,B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	541	<541	
DI-n-OCTYLPHTHALATE	117-84-0	43.3	<43.3	4,B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

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110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-2)
Date received: 3/17/10	Laboratory ID: 1193351
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUORANTHENE	205-99-2	43.3	<43.3	4,B
BENZO-k-FLUORANTHENE	207-08-9	43.3	<43.3	4,B
BENZO-a-PYRENE	50-32-8	43.3	<43.3	4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	43.3	<43.3	4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	43.3	<43.3	4,B
BENZO-g,h,i-PERYLENE	191-24-2	43.3	<43.3	4,B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi

Michael Veraldi-Laboratory Director

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-2)
Date received: 3/17/10	Laboratory ID: 1193351
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-2)
Date received: 3/17/10	Laboratory ID: 1193351
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	1.65	03/19/2010	11,977	4.F
ANTIMONY, Sb	1.65	03/19/2010	<1.65	4.G
ARSENIC, As	1.65	03/19/2010	<1.65	
BARIUM, Ba	3.33	03/19/2010	32.8	
BERYLLIUM, Be	1.65	03/19/2010	<1.65	
CADMIUM, Cd	1.00	03/19/2010	<1.00	
CALCIUM, Ca	1.65	03/19/2010	2,781	4.F
CHROMIUM, Cr	1.65	03/19/2010	12	
COBALT, Co	1.65	03/19/2010	11.5	
COPPER, Cu	1.65	03/19/2010	85.3	4.G
IRON, Fe	1.65	03/19/2010	14,876	4.F
LEAD, Pb	1.65	03/19/2010	2.32	
MAGNESIUM, Mg	1.65	03/19/2010	7,753	4.F
MANGANESE, Mn	1.65	03/19/2010	100	
MERCURY, Hg•	0.02	03/19/2010	<0.02	
NICKEL, Ni	1.65	03/19/2010	19.4	
POTASSIUM, K	1.65	03/19/2010	1,056	4.F
SELENIUM, Se	1.65	03/19/2010	<1.65	
SILVER, Ag	1.65	03/19/2010	<1.65	
SODIUM, Na	1.65	03/19/2010	158	
THALIUM, Tl	1.65	03/19/2010	3.46	
VANADIUM, V	1.65	03/19/2010	21	
ZINC, Zn	1.65	03/19/2010	85.2	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi

Michael Veraldi-Laboratory Director

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-4)
Date received: 3/17/10	Laboratory ID: 1193352
Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	5.55	<5.55	
1,1,1-TRICHLOROETHANE	71-55-6	5.55	<5.55	
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.55	<5.55	
1,1,2-TRICHLOROETHANE	79-00-5	5.55	<5.55	
1,1-DICHLOROETHANE	75-34-3	5.55	<5.55	
1,1-DICHLOROETHENE	75-35-4	5.55	<5.55	
1,1-DICHLOROPROPENE	563-58-6	5.55	<5.55	
1,2,3-TRICHLOROBENZENE	87-61-6	5.55	<5.55	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	5.55	<5.55	
1,2,4-TRICHLOROBENZENE	120-82-1	5.55	<5.55	
1,2,4-TRIMETHYLBENZENE	95-63-6	5.55	<5.55	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.55	<5.55	
1,2-DIBROMOETHANE	106-93-4	5.55	<5.55	
1,2-DICHLOROBENZENE	95-50-1	5.55	<5.55	
1,2-DICHLOROETHANE	107-06-2	5.55	<5.55	
1,2-DICHLOROPROPANE	78-87-5	5.55	<5.55	
1,3,5-TRIMETHYLBENZENE	108-67-8	5.55	<5.55	
1,3-DICHLOROBENZENE	541-73-1	5.55	<5.55	
1,3-DICHLOROPROPANE	142-28-9	5.55	<5.55	
1,4-DICHLOROBENZENE	106-46-7	5.55	<5.55	
2,2-DICHLOROPROPANE	594-20-7	5.55	<5.55	
2-BUTANONE (MEK)	78-93-3	11.1	<11.1	
2-CHLOROETHYL VINYL ETHER	110-75-8	5.55	<5.55	
2-CHLOROTOLUENE	95-49-8	5.55	<5.55	
2-HEXANONE	591-78-6	5.55	<5.55	
4-CHLOROTOLUENE	106-43-4	5.55	<5.55	
ACETONE	67-64-1	55.5	<55.5	
BENZENE	71-43-2	5.55	<5.55	
BROMOBENZENE	108-86-1	5.55	<5.55	
BROMOCHLOROMETHANE	74-97-5	5.55	<5.55	
BROMODICHLOROMETHANE	75-27-4	5.55	<5.55	
BROMOFORM	75-25-2	5.55	<5.55	
BROMOMETHANE	74-83-9	5.55	<5.55	
CARBON DISULFIDE	75-15-0	5.55	<5.55	
CARBON TETRACHLORIDE	56-23-5	5.55	<5.55	
CHLOROBENZENE	108-90-7	5.55	<5.55	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-4)
Date received: 3/17/10	Laboratory ID: 1193352
Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	5.55	<5.55	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	5.55	<5.55	
CHLOROFORM	67-66-3	5.55	<5.55	
CHLOROMETHANE	74-87-3	5.55	<5.55	
cis[Z]-1,2DICHLOROETHENE	156-59-2	5.55	<5.55	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	5.55	<5.55	
DIBROMOCHLOROMETHANE	124-48-1	5.55	<5.55	
DIBROMOMETHANE	74-95-3	5.55	<5.55	
DICHLORODIFLUOROMETHANE	75-71-8	5.55	<5.55	
ETHYLBENZENE	100-41-4	5.55	<5.55	
HEXACHLOROBUTADIENE	87-68-3	5.55	<5.55	
ISOPROPYLBENZENE	98-82-8	5.55	<5.55	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	5.55	<5.55	
METHYLENE CHLORIDE	75-09-2	5.55	<5.55	
MTBE	1634-04-4	5.55	<5.55	
NAPHTHALENE	91-20-3	5.55	<5.55	
n-BUTYLBENZENE	104-51-8	5.55	<5.55	
n-PROPYLBENZENE	103-65-1	5.55	<5.55	
o-XYLENE	95-47-6	5.55	<5.55	
p&m-XYLENE	1330-20-7	11.1	<11.1	
p-ISOPROPYLTOLUENE	99-87-6	5.55	<5.55	
sec-BUTYLBENZENE	135-98-8	5.55	<5.55	
STYRENE	100-42-5	5.55	<5.55	
tert-BUTYLBENZENE	98-06-6	5.55	<5.55	
TETRACHLOROETHYLENE	127-18-4	5.55	<5.55	
TOLUENE	108-88-3	5.55	<5.55	
trans[E]-1,2-DICHLOROETHENE	156-60-5	5.55	<5.55	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	5.55	<5.55	
TRICHLOROETHYLENE	79-01-6	5.55	<5.55	
TRICHLOROMONOFLUOROMETHANE	75-69-4	5.55	<5.55	
VINYL ACETATE	108-05-4	5.55	<5.55	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi-Laboratory Director

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-4)
Date received: 3/17/10	Laboratory ID: 1193352
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	44.4	<44.4	4.B
1,3-DICHLOROBENZENE	541-73-1	44.4	<44.4	4.B
1,4-DICHLOROBENZENE	106-46-7	44.4	<44.4	4.B
1,2-DICHLOROBENZENE	95-50-1	44.4	<44.4	4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	44.4	<44.4	4.B
HEXACHLOROETHANE	67-72-1	44.4	<44.4	4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	44.4	<44.4	4.B
NITROBENZENE	98-95-3	44.4	<44.4	4.B
ISOPHORONE	78-59-1	44.4	<44.4	4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	44.4	<44.4	4.B
1,2,4-TRICHLOROBENZENE	120-82-1	44.4	<44.4	4.B
NAPHTHALENE	91-20-3	44.4	<44.4	4.B
HEXACHLOROBUTADIENE	87-68-3	44.4	<44.4	4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	44.4	<44.4	4.B
2-CHLORONAPHTHALENE	91-58-7	44.4	<44.4	4.B
ACENAPHTHYLENE	208-96-8	44.4	<44.4	4.B
DIMETHYLPHTHALATE	131-11-3	44.4	<44.4	4.B
2,6-DINITROTOLUENE	606-20-2	44.4	<44.4	4.B
ACENAPHTHENE	83-32-9	44.4	<44.4	4.B
2,4-DINITROTOLUENE	121-14-2	44.4	<44.4	4.B
FLUORENE	86-73-7	44.4	<44.4	4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	44.4	<44.4	4.B
DIETHYLPHTHALATE	84-66-2	44.4	<44.4	4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	44.4	<44.4	4.B
HEXACHLOROBENZENE	118-74-1	44.4	<44.4	4.B
PHENANTHRENE	85-01-8	44.4	<44.4	4.B
ANTHRACENE	120-12-7	44.4	<44.4	4.B
DI-n-BUTYLPHTHALATE	84-74-2	555	<555	
FLUORANTHENE	206-44-0	44.4	<44.4	4.B
PYRENE	129-00-0	44.4	<44.4	4.B
BUTYLBENZYLPHTHALATE	85-68-7	44.4	<44.4	4.K 4.B
CHRYSENE	218-01-9	44.4	<44.4	4.B
BENZO-a-ANTHRACENE	56-55-3	44.4	<44.4	4.B
3,3-DICHLOROBENZIDINE	91-94-1	44.4	<44.4	4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	555	<555	
DI-n-OCTYLPHTHALATE	117-84-0	44.4	<44.4	4.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-4)
Date received: 3/17/10	Laboratory ID: 1193352
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUORANTHENE	205-99-2	44.4	<44.4	4,B
BENZO-k-FLUORANTHENE	207-08-9	44.4	<44.4	4,B
BENZO-a-PYRENE	50-32-8	44.4	<44.4	4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	44.4	<44.4	4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	44.4	<44.4	4,B
BENZO-g,h,i-PERYLENE	191-24-2	44.4	<44.4	4,B

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Method: 8270C

Michael Veraldi-Laboratory Director

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Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-4)
Date received: 3/17/10	Laboratory ID: 1193352
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	1.65	03/19/2010	12,567	4.F
ANTIMONY, Sb	1.65	03/19/2010	<1.65	4.G
ARSENIC, As	1.65	03/19/2010	<1.65	
BARIUM, Ba	3.33	03/19/2010	26.8	
BERYLLIUM, Be	1.65	03/19/2010	<1.65	
CADMIUM, Cd	1.00	03/19/2010	<1.00	
CALCIUM, Ca	1.65	03/19/2010	2,500	4.F
CHROMIUM, Cr	1.65	03/19/2010	10.3	
COBALT, Co	1.65	03/19/2010	7.53	
COPPER, Cu	1.65	03/19/2010	58.3	4.G
IRON, Fe	1.65	03/19/2010	22,902	4.F
LEAD, Pb	1.65	03/19/2010	14.4	
MAGNESIUM, Mg	1.65	03/19/2010	7,073	4.F
MANGANESE, Mn	1.65	03/19/2010	297	
MERCURY, Hg•	0.02	03/19/2010	0.025	
NICKEL, Ni	1.65	03/19/2010	15.8	
POTASSIUM, K	1.65	03/19/2010	667	4.F
SELENIUM, Se	1.65	03/19/2010	<1.65	
SILVER, Ag	1.65	03/19/2010	<1.65	
SODIUM, Na	1.65	03/19/2010	27.5	
THALIUM, Tl	1.65	03/19/2010	<1.65	
VANADIUM, V	1.65	03/19/2010	11	
ZINC, Zn	1.65	03/19/2010	68.9	

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Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi

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Date received: 3/17/10	Laboratory ID: 1193353
Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	6.39	<6.39	
1,1,1-TRICHLOROETHANE	71-55-6	6.39	<6.39	
1,1,2,2-TETRACHLOROETHANE	79-34-5	6.39	<6.39	
1,1,2-TRICHLOROETHANE	79-00-5	6.39	<6.39	
1,1-DICHLOROETHANE	75-34-3	6.39	<6.39	
1,1-DICHLOROETHENE	75-35-4	6.39	<6.39	
1,1-DICHLOROPROPENE	563-58-6	6.39	<6.39	
1,2,3-TRICHLOROBENZENE	87-61-6	6.39	<6.39	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	6.39	<6.39	
1,2,4-TRICHLOROBENZENE	120-82-1	6.39	<6.39	
1,2,4-TRIMETHYLBENZENE	95-63-6	6.39	<6.39	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	6.39	<6.39	
1,2-DIBROMOETHANE	106-93-4	6.39	<6.39	
1,2-DICHLOROBENZENE	95-50-1	6.39	<6.39	
1,2-DICHLOROETHANE	107-06-2	6.39	<6.39	
1,2-DICHLOROPROPANE	78-87-5	6.39	<6.39	
1,3,5-TRIMETHYLBENZENE	108-67-8	6.39	<6.39	
1,3-DICHLOROBENZENE	541-73-1	6.39	<6.39	
1,3-DICHLOROPROPANE	142-28-9	6.39	<6.39	
1,4-DICHLOROBENZENE	106-46-7	6.39	<6.39	
2,2-DICHLOROPROPANE	594-20-7	6.39	<6.39	
2-BUTANONE (MEK)	78-93-3	12.8	<12.8	
2-CHLOROETHYL VINYL ETHER	110-75-8	6.39	<6.39	
2-CHLOROTOLUENE	95-49-8	6.39	<6.39	
2-HEXANONE	591-78-6	6.39	<6.39	
4-CHLOROTOLUENE	106-43-4	6.39	<6.39	
ACETONE	67-64-1	63.9	<63.9	
BENZENE	71-43-2	6.39	<6.39	
BROMOBENZENE	108-86-1	6.39	<6.39	
BROMOCHLOROMETHANE	74-97-5	6.39	<6.39	
BROMODICHLOROMETHANE	75-27-4	6.39	<6.39	
BROMOFORM	75-25-2	6.39	<6.39	
BROMOMETHANE	74-83-9	6.39	<6.39	
CARBON DISULFIDE	75-15-0	6.39	<6.39	
CARBON TETRACHLORIDE	56-23-5	6.39	<6.39	
CHLOROBENZENE	108-90-7	6.39	<6.39	

MDL = Minimum Detection Limit Calculated on a dry weight basis
EPA Method: 8260B

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Date extracted: 3/17/10	Matrix: Soil
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	6.39	<6.39	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	6.39	<6.39	
CHLOROFORM	67-66-3	6.39	<6.39	
CHLOROMETHANE	74-87-3	6.39	<6.39	
cis[Z]-1,2DICHLOROETHENE	156-59-2	6.39	<6.39	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	6.39	<6.39	
DIBROMOCHLOROMETHANE	124-48-1	6.39	<6.39	
DIBROMOMETHANE	74-95-3	6.39	<6.39	
DICHLORODIFLUOROMETHANE	75-71-8	6.39	<6.39	
ETHYLBENZENE	100-41-4	6.39	<6.39	
HEXACHLOROBUTADIENE	87-68-3	6.39	<6.39	
ISOPROPYLBENZENE	98-82-8	6.39	<6.39	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	6.39	<6.39	
METHYLENE CHLORIDE	75-09-2	6.39	<6.39	
MTBE	1634-04-4	6.39	<6.39	
NAPHTHALENE	91-20-3	6.39	<6.39	
n-BUTYLBENZENE	104-51-8	6.39	<6.39	
n-PROPYLBENZENE	103-65-1	6.39	<6.39	
o-XYLENE	95-47-6	6.39	<6.39	
p&m-XYLENE	1330-20-7	12.8	<12.8	
p-ISOPROPYLTOLUENE	99-87-6	6.39	<6.39	
sec-BUTYLBENZENE	135-98-8	6.39	<6.39	
STYRENE	100-42-5	6.39	<6.39	
tert-BUTYLBENZENE	98-06-6	6.39	<6.39	
TETRACHLOROETHYLENE	127-18-4	6.39	<6.39	
TOLUENE	108-88-3	6.39	<6.39	
trans[E]-1,2-DICHLOROETHENE	156-60-5	6.39	<6.39	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	6.39	<6.39	
TRICHLOROETHYLENE	79-01-6	6.39	<6.39	
TRICHLOROMONOFLUOROMETHANE	75-69-4	6.39	<6.39	
VINYL ACETATE	108-05-4	6.39	<6.39	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

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Date received: 3/17/10	Laboratory ID: 1193353
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	51.1	<51.1	4.B
1,3-DICHLOROBENZENE	541-73-1	51.1	<51.1	4.B
1,4-DICHLOROBENZENE	106-46-7	51.1	<51.1	4.B
1,2-DICHLOROBENZENE	95-50-1	51.1	<51.1	4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	51.1	<51.1	4.B
HEXACHLOROETHANE	67-72-1	51.1	<51.1	4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	51.1	<51.1	4.B
NITROBENZENE	98-95-3	51.1	<51.1	4.B
ISOPHORONE	78-59-1	51.1	<51.1	4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	51.1	<51.1	4.B
1,2,4-TRICHLOROBENZENE	120-82-1	51.1	<51.1	4.B
NAPHTHALENE	91-20-3	51.1	<51.1	4.B
HEXACHLOROBUTADIENE	87-68-3	51.1	<51.1	4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	51.1	<51.1	4.B
2-CHLORONAPHTHALENE	91-58-7	51.1	<51.1	4.B
ACENAPHTHYLENE	208-96-8	51.1	<51.1	4.B
DIMETHYLPHTHALATE	131-11-3	51.1	<51.1	4.B
2,6-DINITROTOLUENE	606-20-2	51.1	<51.1	4.B
ACENAPHTHENE	83-32-9	51.1	<51.1	4.B
2,4-DINITROTOLUENE	121-14-2	51.1	<51.1	4.B
FLUORENE	86-73-7	51.1	<51.1	4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	51.1	<51.1	4.B
DIETHYLPHTHALATE	84-66-2	51.1	<51.1	4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	51.1	<51.1	4.B
HEXACHLOROBENZENE	118-74-1	51.1	<51.1	4.B
PHENANTHRENE	85-01-8	51.1	<51.1	4.B
ANTHRACENE	120-12-7	51.1	<51.1	4.B
DI-n-BUTYLPHTHALATE	84-74-2	639	<639	
FLUORANTHENE	206-44-0	51.1	<51.1	4.B
PYRENE	129-00-0	51.1	<51.1	4.B
BUTYLBENZYLPHTHALATE	85-68-7	51.1	<51.1	4.K 4.B
CHRYSENE	218-01-9	51.1	<51.1	4.B
BENZO-a-ANTHRACENE	56-55-3	51.1	<51.1	4.B
3,3-DICHLOROBENZIDINE	91-94-1	51.1	<51.1	4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	639	<639	
DI-n-OCTYLPHTHALATE	117-84-0	51.1	<51.1	4.B

MDL = Minimum Detection Limit

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Method: 8270C

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Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUORANTHENE	205-99-2	51.1	<51.1	4,B
BENZO-k-FLUORANTHENE	207-08-9	51.1	<51.1	4,B
BENZO-a-PYRENE	50-32-8	51.1	<51.1	4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	51.1	<51.1	4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	51.1	<51.1	4,B
BENZO-g,h,i-PERYLENE	191-24-2	51.1	<51.1	4,B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-5)
Date received: 3/17/10	Laboratory ID: 1193353
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-5)
Date received: 3/17/10	Laboratory ID: 1193353
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	1.70	03/19/2010	13,441	4.F
ANTIMONY, Sb	1.70	03/19/2010	<1.70	4.G
ARSENIC, As	1.70	03/19/2010	<1.70	
BARIUM, Ba	3.42	03/19/2010	45.2	
BERYLLIUM, Be	1.70	03/19/2010	<1.70	
CADMIUM, Cd	1.03	03/19/2010	<1.03	
CALCIUM, Ca	1.70	03/19/2010	1,249	4.F
CHROMIUM, Cr	1.70	03/19/2010	10.2	
COBALT, Co	1.70	03/19/2010	4.16	
COPPER, Cu	1.70	03/19/2010	69.8	4.G
IRON, Fe	1.70	03/19/2010	13,989	4.F
LEAD, Pb	1.70	03/19/2010	7.35	
MAGNESIUM, Mg	1.70	03/19/2010	4,567	4.F
MANGANESE, Mn	1.70	03/19/2010	107	
MERCURY, Hg•	0.02	03/19/2010	0.114	
NICKEL, Ni	1.70	03/19/2010	6.41	
POTASSIUM, K	1.70	03/19/2010	1,561	4.F
SELENIUM, Se	1.70	03/19/2010	<1.70	
SILVER, Ag	1.70	03/19/2010	<1.70	
SODIUM, Na	1.70	03/19/2010	67.5	
THALIUM, Ti	1.70	03/19/2010	3.45	
VANADIUM, V	1.70	03/19/2010	16.7	
ZINC, Zn	1.70	03/19/2010	31.9	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-6)
Date received: 3/17/10	Laboratory ID: 1193354
Date extracted: 3/18/10	Matrix: Sludge
Date analyzed: 3/18/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	38.3	<38.3	
1,1,1-TRICHLOROETHANE	71-55-6	38.3	<38.3	
1,1,2,2-TETRACHLOROETHANE	79-34-5	38.3	<38.3	
1,1,2-TRICHLOROETHANE	79-00-5	38.3	<38.3	
1,1-DICHLOROETHANE	75-34-3	38.3	<38.3	
1,1-DICHLOROETHENE	75-35-4	38.3	<38.3	
1,1-DICHLOROPROPENE	563-58-6	38.3	<38.3	
1,2,3-TRICHLOROBENZENE	87-61-6	38.3	<38.3	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	38.3	<38.3	
1,2,4-TRICHLOROBENZENE	120-82-1	38.3	<38.3	
1,2,4-TRIMETHYLBENZENE	95-63-6	38.3	171	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	38.3	<38.3	
1,2-DIBROMOETHANE	106-93-4	38.3	<38.3	
1,2-DICHLOROBENZENE	95-50-1	38.3	<38.3	
1,2-DICHLOROETHANE	107-06-2	38.3	<38.3	
1,2-DICHLOROPROPANE	78-87-5	38.3	<38.3	
1,3,5-TRIMETHYLBENZENE	108-67-8	38.3	57.1	
1,3-DICHLOROBENZENE	541-73-1	38.3	<38.3	
1,3-DICHLOROPROPANE	142-28-9	38.3	<38.3	
1,4-DICHLOROBENZENE	106-46-7	38.3	173	
2,2-DICHLOROPROPANE	594-20-7	38.3	<38.3	
2-BUTANONE (MEK)	78-93-3	76.5	<76.5	
2-CHLOROETHYL VINYL ETHER	110-75-8	38.3	<38.3	
2-CHLOROTOLUENE	95-49-8	38.3	<38.3	
2-HEXANONE	591-78-6	38.3	<38.3	
4-CHLOROTOLUENE	106-43-4	38.3	<38.3	
ACETONE	67-64-1	383	<383	
BENZENE	71-43-2	38.3	<38.3	
BROMOBENZENE	108-86-1	38.3	<38.3	
BROMOCHLOROMETHANE	74-97-5	38.3	<38.3	
BROMODICHLOROMETHANE	75-27-4	38.3	<38.3	
BROMOFORM	75-25-2	38.3	<38.3	
BROMOMETHANE	74-83-9	38.3	<38.3	
CARBON DISULFIDE	75-15-0	38.3	42.3	
CARBON TETRACHLORIDE	56-23-5	38.3	<38.3	
CHLOROBENZENE	108-90-7	38.3	<38.3	

MDL = Minimum Detection Limit Calculated on a dry weight basis
EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-6)
Date received: 3/17/10	Laboratory ID: 1193354
Date extracted: 3/18/10	Matrix: Sludge
Date analyzed: 3/18/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	38.3	<38.3	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	38.3	<38.3	
CHLOROFORM	67-66-3	38.3	<38.3	
CHLOROMETHANE	74-87-3	38.3	<38.3	
cis[Z]-1,2DICHLOROETHENE	156-59-2	38.3	<38.3	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	38.3	<38.3	
DIBROMOCHLOROMETHANE	124-48-1	38.3	<38.3	
DIBROMOMETHANE	74-95-3	38.3	<38.3	
DICHLORODIFLUOROMETHANE	75-71-8	38.3	<38.3	
ETHYLBENZENE	100-41-4	38.3	<38.3	
HEXACHLOROBUTADIENE	87-68-3	38.3	<38.3	
ISOPROPYLBENZENE	98-82-8	38.3	<38.3	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	38.3	<38.3	
METHYLENE CHLORIDE	75-09-2	38.3	<38.3	
MTBE	1634-04-4	38.3	<38.3	
NAPHTHALENE	91-20-3	38.3	<38.3	
n-BUTYLBENZENE	104-51-8	38.3	<38.3	
n-PROPYLBENZENE	103-65-1	38.3	<38.3	
o-XYLENE	95-47-6	38.3	<38.3	
p&m-XYLENE	1330-20-7	76.5	<76.5	
p-ISOPROPYLTOLUENE	99-87-6	38.3	158	
sec-BUTYLBENZENE	135-98-8	38.3	39.9	
STYRENE	100-42-5	38.3	<38.3	
tert-BUTYLBENZENE	98-06-6	38.3	<38.3	
TETRACHLOROETHYLENE	127-18-4	38.3	<38.3	
TOLUENE	108-88-3	38.3	<38.3	
trans[E]-1,2-DICHLOROETHENE	156-60-5	38.3	<38.3	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	38.3	<38.3	
TRICHLOROETHYLENE	79-01-6	38.3	<38.3	
TRICHLOROMONOFLUOROMETHANE	75-69-4	38.3	<38.3	
VINYL ACETATE	108-05-4	38.3	<38.3	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-6)
Date received: 3/17/10	Laboratory ID: 1193354
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	612	<612	3.A 4.B
1,3-DICHLOROBENZENE	541-73-1	612	<612	3.A 4.B
1,4-DICHLOROBENZENE	106-46-7	612	1,499	4.B
1,2-DICHLOROBENZENE	95-50-1	612	<612	3.A 4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	612	<612	3.A 4.B
HEXACHLOROETHANE	67-72-1	612	<612	3.A 4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	612	<612	3.A 4.B
NITROBENZENE	98-95-3	612	<612	3.A 4.B
ISOPHORONE	78-59-1	612	<612	3.A 4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	612	<612	3.A 4.B
1,2,4-TRICHLOROBENZENE	120-82-1	612	<612	3.A 4.B
NAPHTHALENE	91-20-3	612	<612	3.A 4.B
HEXACHLOROBUTADIENE	87-68-3	612	<612	3.A4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	612	<612	3.A 4.B
2-CHLORONAPHTHALENE	91-58-7	612	<612	3.A 4.B
ACENAPHTHYLENE	208-96-8	612	<612	3.A 4.B
DIMETHYLPHTHALATE	131-11-3	612	<612	3.A 4.B
2,6-DINITROTOLUENE	606-20-2	612	<612	3.A 4.B
ACENAPHTHENE	83-32-9	612	<612	3.A 4.B
2,4-DINITROTOLUENE	121-14-2	612	<612	3.A 4.B
FLUORENE	86-73-7	612	<612	3.A 4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	612	<612	3.A 4.B
DIETHYLPHTHALATE	84-66-2	612	<612	3.A 4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	612	<612	3.A 4.B
HEXACHLOROBENZENE	118-74-1	612	<612	3.A 4.B
PHENANTHRENE	85-01-8	612	<612	3.A 4.B
ANTHRACENE	120-12-7	612	<612	3.A 4.B
DI-n-BUTYLPHTHALATE	84-74-2	7,651	<7,651	3.A
FLUORANTHENE	206-44-0	612	<612	3.A 4.B
PYRENE	129-00-0	612	<612	3.A 4.B
BUTYLBENZYLPHTHALATE	85-68-7	612	<612	3.A4.K 4.B
CHRYSENE	218-01-9	612	<612	3.A 4.B
BENZO-a-ANTHRACENE	56-55-3	612	<612	3.A 4.B
3,3-DICHLOROBENZIDINE	91-94-1	612	<612	3.A 4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	7,651	<7,651	3.A
DI-n-OCTYLPHTHALATE	117-84-0	612	<612	3.A 4.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-6)
Date received: 3/17/10	Laboratory ID: 1193354
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	612	<612	3,A 4,B
BENZO-k-FLUOROANTHENE	207-08-9	612	<612	3,A 4,B
BENZO-a-PYRENE	50-32-8	612	<612	3,A 4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	612	<612	3,A 4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	612	<612	3,A 4,B
BENZO-g,h,i-PERYLENE	191-24-2	612	<612	3,A 4,B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-6)
Date received: 3/17/10	Laboratory ID: 1193354
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-6)
Date received: 3/17/10	Laboratory ID: 1193354
Date analyzed: See Below	Matrix: Sludge

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	10.1	03/19/2010	26,029	4.F
ANTIMONY, Sb	10.1	03/19/2010	<10.1	4.G
ARSENIC, As	10.1	03/19/2010	<10.1	
BARIUM, Ba	20.4	03/19/2010	428	
BERYLLIUM, Be	10.1	03/19/2010	<10.1	
CADMIUM, Cd	6.12	03/19/2010	<6.12	
CALCIUM, Ca	10.1	03/19/2010	21,207	4.F
CHROMIUM, Cr	10.1	03/19/2010	36.6	
COBALT, Co	10.1	03/19/2010	12	
COPPER, Cu	10.1	03/19/2010	728	4.G
IRON, Fe	10.1	03/19/2010	25,780	4.F
LEAD, Pb	10.1	03/19/2010	108	
MAGNESIUM, Mg	10.1	03/19/2010	5,837	4.F
MANGANESE, Mn	10.1	03/19/2010	368	
MERCURY, Hg•	0.11	03/19/2010	1.20	
NICKEL, Ni	10.1	03/19/2010	25	
POTASSIUM, K	10.1	03/19/2010	3,232	4.F
SELENIUM, Se	10.1	03/19/2010	<10.1	
SILVER, Ag	10.1	03/19/2010	<10.1	
SODIUM, Na	10.1	03/19/2010	176	
THALIUM, Tl	10.1	03/19/2010	<10.1	
VANADIUM, V	10.1	03/19/2010	32.3	
ZINC, Zn	10.1	03/19/2010	840	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-7)
Date received: 3/17/10	Laboratory ID: 1193355
Date extracted: 3/18/10	Matrix: Sludge
Date analyzed: 3/18/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	17.5	<17.5	
1,1,1-TRICHLOROETHANE	71-55-6	17.5	<17.5	
1,1,2,2-TETRACHLOROETHANE	79-34-5	17.5	<17.5	
1,1,2-TRICHLOROETHANE	79-00-5	17.5	<17.5	
1,1-DICHLOROETHANE	75-34-3	17.5	<17.5	
1,1-DICHLOROETHENE	75-35-4	17.5	<17.5	
1,1-DICHLOROPROPENE	563-58-6	17.5	<17.5	
1,2,3-TRICHLOROBENZENE	87-61-6	17.5	<17.5	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	17.5	<17.5	
1,2,4-TRICHLOROBENZENE	120-82-1	17.5	<17.5	
1,2,4-TRIMETHYLBENZENE	95-63-6	17.5	<17.5	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	17.5	<17.5	
1,2-DIBROMOETHANE	106-93-4	17.5	<17.5	
1,2-DICHLOROBENZENE	95-50-1	17.5	<17.5	
1,2-DICHLOROETHANE	107-06-2	17.5	<17.5	
1,2-DICHLOROPROPANE	78-87-5	17.5	<17.5	
1,3,5-TRIMETHYLBENZENE	108-67-8	17.5	<17.5	
1,3-DICHLOROBENZENE	541-73-1	17.5	<17.5	
1,3-DICHLOROPROPANE	142-28-9	17.5	<17.5	
1,4-DICHLOROBENZENE	106-46-7	17.5	<17.5	
2,2-DICHLOROPROPANE	594-20-7	17.5	<17.5	
2-BUTANONE (MEK)	78-93-3	35	40.3	
2-CHLOROETHYL VINYL ETHER	110-75-8	17.5	<17.5	
2-CHLOROTOLUENE	95-49-8	17.5	<17.5	
2-HEXANONE	591-78-6	17.5	<17.5	
4-CHLOROTOLUENE	106-43-4	17.5	<17.5	
ACETONE	67-64-1	175	<175	
BENZENE	71-43-2	17.5	<17.5	
BROMOBENZENE	108-86-1	17.5	<17.5	
BROMOCHLOROMETHANE	74-97-5	17.5	<17.5	
BROMODICHLOROMETHANE	75-27-4	17.5	<17.5	
BROMOFORM	75-25-2	17.5	<17.5	
BROMOMETHANE	74-83-9	17.5	<17.5	
CARBON DISULFIDE	75-15-0	17.5	<17.5	
CARBON TETRACHLORIDE	56-23-5	17.5	<17.5	
CHLOROBENZENE	108-90-7	17.5	<17.5	

MDL = Minimum Detection Limit Calculated on a dry weight basis
EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-7)
Date received: 3/17/10	Laboratory ID: 1193355
Date extracted: 3/18/10	Matrix: Sludge
Date analyzed: 3/18/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	17.5	<17.5	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	17.5	<17.5	
CHLOROFORM	67-66-3	17.5	<17.5	
CHLOROMETHANE	74-87-3	17.5	<17.5	
cis[Z]-1,2DICHLOROETHENE	156-59-2	17.5	<17.5	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	17.5	<17.5	
DIBROMOCHLOROMETHANE	124-48-1	17.5	<17.5	
DIBROMOMETHANE	74-95-3	17.5	<17.5	
DICHLORODIFLUOROMETHANE	75-71-8	17.5	<17.5	
ETHYLBENZENE	100-41-4	17.5	<17.5	
HEXACHLOROBUTADIENE	87-68-3	17.5	<17.5	
ISOPROPYLBENZENE	98-82-8	17.5	<17.5	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	17.5	<17.5	
METHYLENE CHLORIDE	75-09-2	17.5	<17.5	
MTBE	1634-04-4	17.5	<17.5	
NAPHTHALENE	91-20-3	17.5	<17.5	
n-BUTYLBENZENE	104-51-8	17.5	<17.5	
n-PROPYLBENZENE	103-65-1	17.5	<17.5	
o-XYLENE	95-47-6	17.5	<17.5	
p&m-XYLENE	1330-20-7	35	<35	
p-ISOPROPYLTOLUENE	99-87-6	17.5	<17.5	
sec-BUTYLBENZENE	135-98-8	17.5	<17.5	
STYRENE	100-42-5	17.5	<17.5	
tert-BUTYLBENZENE	98-06-6	17.5	<17.5	
TETRACHLOROETHYLENE	127-18-4	17.5	<17.5	
TOLUENE	108-88-3	17.5	<17.5	
trans[E]-1,2-DICHLOROETHENE	156-60-5	17.5	<17.5	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	17.5	<17.5	
TRICHLOROETHYLENE	79-01-6	17.5	<17.5	
TRICHLOROMONOFLUOROMETHANE	75-69-4	17.5	<17.5	
VINYL ACETATE	108-05-4	17.5	<17.5	

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8260B

Michael Veraldi-Laboratory Director

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110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-7)
Date received: 3/17/10	Laboratory ID: 1193355
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	280	<280	3,A 4,B
1,3-DICHLOROBENZENE	541-73-1	280	<280	3,A 4,B
1,4-DICHLOROBENZENE	106-46-7	280	<280	3,A 4,B
1,2-DICHLOROBENZENE	95-50-1	280	<280	3,A 4,B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	280	<280	3,A 4,B
HEXACHLOROETHANE	67-72-1	280	<280	3,A 4,B
n-NITROSODI-n-PROPYLAMINE	621-64-7	280	<280	3,A 4,B
NITROBENZENE	98-95-3	280	<280	3,A 4,B
ISOPHORONE	78-59-1	280	<280	3,A 4,B
bis(2-CHLOROETHOXY)METHANE	111-91-1	280	<280	3,A 4,B
1,2,4-TRICHLOROBENZENE	120-82-1	280	<280	3,A 4,B
NAPHTHALENE	91-20-3	280	<280	3,A 4,B
HEXACHLOROBUTADIENE	87-68-3	280	<280	3,A4,K 4,B
HEXACHLOROCYCLOPENTADIENE	77-47-4	280	<280	3,A 4,B
2-CHLORONAPHTHALENE	91-58-7	280	<280	3,A 4,B
ACENAPHTHYLENE	208-96-8	280	<280	3,A 4,B
DIMETHYLPHTHALATE	131-11-3	280	<280	3,A 4,B
2,6-DINITROTOLUENE	606-20-2	280	<280	3,A 4,B
ACENAPHTHENE	83-32-9	280	<280	3,A 4,B
2,4-DINITROTOLUENE	121-14-2	280	<280	3,A 4,B
FLUORENE	86-73-7	280	<280	3,A 4,B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	280	<280	3,A 4,B
DIETHYLPHTHALATE	84-66-2	280	<280	3,A 4,B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	280	<280	3,A 4,B
HEXACHLOROBENZENE	118-74-1	280	<280	3,A 4,B
PHENANTHRENE	85-01-8	280	765	4,B
ANTHRACENE	120-12-7	280	<280	3,A 4,B
DI-n-BUTYLPHTHALATE	84-74-2	3,498	<3,498	3,A
FLUORANTHENE	206-44-0	280	856	4,B
PYRENE	129-00-0	280	532	4,B
BUTYLBENZYLPHTHALATE	85-68-7	280	<280	3,A4,K 4,B
CHRYSENE	218-01-9	280	326	4,B
BENZO-a-ANTHRACENE	56-55-3	280	303	4,B
3,3-DICHLOROBENZIDINE	91-94-1	280	<280	3,A 4,B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	3,498	<3,498	3,A
DI-n-OCTYLPHTHALATE	117-84-0	280	<280	3,A 4,B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-7)
Date received: 3/17/10	Laboratory ID: 1193355
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	280	298	4.B
BENZO-k-FLUORANTHENE	207-08-9	280	<280	3.A 4.B
BENZO-a-PYRENE	50-32-8	280	<280	3.A 4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	280	<280	3.A 4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	280	<280	3.A 4.B
BENZO-g,h,i-PERYLENE	191-24-2	280	<280	3.A 4.B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-7)
Date received: 3/17/10	Laboratory ID: 1193355
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-7)
Date received: 3/17/10	Laboratory ID: 1193355
Date analyzed: See Below	Matrix: Sludge

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	4.60	03/19/2010	6,885	4.F
ANTIMONY, Sb	4.60	03/19/2010	<4.60	4.G
ARSENIC, As	4.60	03/19/2010	4.77	
BARIUM, Ba	9.29	03/19/2010	122	
BERYLLIUM, Be	4.60	03/19/2010	<4.60	
CADMIUM, Cd	2.79	03/19/2010	<2.79	
CALCIUM, Ca	4.60	03/19/2010	10,713	4.F
CHROMIUM, Cr	4.60	03/19/2010	17.8	
COBALT, Co	4.60	03/19/2010	5.82	
COPPER, Cu	4.60	03/19/2010	1,002	4.G
IRON, Fe	4.60	03/19/2010	41,445	4.F
LEAD, Pb	4.60	03/19/2010	93.1	
MAGNESIUM, Mg	4.60	03/19/2010	1,488	4.F
MANGANESE, Mn	4.60	03/19/2010	184	
MERCURY, Hg•	0.05	03/19/2010	2.48	
NICKEL, Ni	4.60	03/19/2010	15.8	
POTASSIUM, K	4.60	03/19/2010	685	4.F
SELENIUM, Se	4.60	03/19/2010	<4.60	
SILVER, Ag	4.60	03/19/2010	<4.60	
SODIUM, Na	4.60	03/19/2010	81.2	
THALIUM, Tl	4.60	03/19/2010	<4.60	
VANADIUM, V	4.60	03/19/2010	17.8	
ZINC, Zn	4.60	03/19/2010	474	

MDL = Minimum Detection Limit
Performed by SW-846 Method 6010
•Method: EPA 7471A

Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-8)
Date received: 3/17/10	Laboratory ID: 1193356
Date extracted: 3/18/10	Matrix: Sludge
Date analyzed: 3/18/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	175	<175	3.B
1,1,1-TRICHLOROETHANE	71-55-6	175	<175	3.B
1,1,2,2-TETRACHLOROETHANE	79-34-5	175	<175	3.B
1,1,2-TRICHLOROETHANE	79-00-5	175	<175	3.B
1,1-DICHLOROETHANE	75-34-3	175	<175	3.B
1,1-DICHLOROETHENE	75-35-4	175	<175	3.B
1,1-DICHLOROPROPENE	563-58-6	175	<175	3.B
1,2,3-TRICHLOROBENZENE	87-61-6	175	<175	2.B 3.B
1,2,3-TRICHLOROPROPANE	96-18-4	175	<175	3.B
1,2,4-TRICHLOROBENZENE	120-82-1	175	<175	3.B
1,2,4-TRIMETHYLBENZENE	95-63-6	175	10,393	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	175	<175	3.B
1,2-DIBROMOETHANE	106-93-4	175	<175	3.B
1,2-DICHLOROBENZENE	95-50-1	175	1,897	
1,2-DICHLOROETHANE	107-06-2	175	<175	3.B
1,2-DICHLOROPROPANE	78-87-5	175	<175	3.B
1,3,5-TRIMETHYLBENZENE	108-67-8	175	3,800	
1,3-DICHLOROBENZENE	541-73-1	175	985	
1,3-DICHLOROPROPANE	142-28-9	175	<175	3.B
1,4-DICHLOROBENZENE	106-46-7	175	2,633	
2,2-DICHLOROPROPANE	594-20-7	175	<175	3.B
2-BUTANONE (MEK)	78-93-3	350	<350	3.B
2-CHLOROETHYL VINYL ETHER	110-75-8	175	<175	3.B
2-CHLOROTOLUENE	95-49-8	175	<175	3.B
2-HEXANONE	591-78-6	175	<175	3.B
4-CHLOROTOLUENE	106-43-4	175	<175	3.B
ACETONE	67-64-1	1,749	<1,749	3.B
BENZENE	71-43-2	175	<175	3.B
BROMOBENZENE	108-86-1	175	<175	3.B
BROMOCHLOROMETHANE	74-97-5	175	<175	3.B
BROMODICHLOROMETHANE	75-27-4	175	<175	3.B
BROMOFORM	75-25-2	175	<175	3.B
BROMOMETHANE	74-83-9	175	<175	3.B
CARBON DISULFIDE	75-15-0	175	<175	3.B
CARBON TETRACHLORIDE	56-23-5	175	<175	3.B
CHLOROBENZENE	108-90-7	175	2,865	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

EPA Method: 8260B

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Date received: 3/17/10	Laboratory ID: 1193356
Date extracted: 3/18/10	Matrix: Sludge
Date analyzed: 3/18/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	175	<175	3.B
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	175	<175	3.B
CHLOROFORM	67-66-3	175	<175	3.B
CHLOROMETHANE	74-87-3	175	<175	3.B
cis[Z]-1,2DICHLOROETHENE	156-59-2	175	<175	3.B
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	175	<175	3.B
DIBROMOCHLOROMETHANE	124-48-1	175	<175	3.B
DIBROMOMETHANE	74-95-3	175	<175	3.B
DICHLORODIFLUOROMETHANE	75-71-8	175	<175	3.B
ETHYLBENZENE	100-41-4	175	641	
HEXACHLOROBUTADIENE	87-68-3	175	<175	3.B
ISOPROPYLBENZENE	98-82-8	175	338	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	175	<175	3.B
METHYLENE CHLORIDE	75-09-2	175	<175	3.B
MTBE	1634-04-4	175	<175	3.B
NAPHTHALENE	91-20-3	175	823	
n-BUTYLBENZENE	104-51-8	175	<175	3.B
n-PROPYLBENZENE	103-65-1	175	1,240	
o-XYLENE	95-47-6	175	1,219	
p&m-XYLENE	1330-20-7	350	2,707	
p-ISOPROPYLTOLUENE	99-87-6	175	1,742	
sec-BUTYLBENZENE	135-98-8	175	881	
STYRENE	100-42-5	175	<175	3.B
tert-BUTYLBENZENE	98-06-6	175	<175	3.B
TETRACHLOROETHYLENE	127-18-4	175	<175	3.B
TOLUENE	108-88-3	175	584	
trans[E]-1,2-DICHLOROETHENE	156-60-5	175	<175	3.B
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	175	<175	3.B
TRICHLOROETHYLENE	79-01-6	175	<175	3.B
TRICHLOROMONOFLUOROMETHANE	75-69-4	175	<175	3.B
VINYL ACETATE	108-05-4	175	<175	3.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-8)
Date received: 3/17/10	Laboratory ID: 1193356
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	140	<140	3.A 4.B
1,3-DICHLOROBENZENE	541-73-1	140	1,267	
1,4-DICHLOROBENZENE	106-46-7	140	3,262	
1,2-DICHLOROBENZENE	95-50-1	140	1,995	
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	140	<140	3.A 4.B
HEXACHLOROETHANE	67-72-1	140	<140	3.A 4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	140	<140	3.A 4.B
NITROBENZENE	98-95-3	140	<140	3.A 4.B
ISOPHORONE	78-59-1	140	<140	3.A 4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	140	<140	3.A 4.B
1,2,4-TRICHLOROBENZENE	120-82-1	140	<140	3.A 4.B
NAPHTHALENE	91-20-3	140	2,116	
HEXACHLOROBUTADIENE	87-68-3	140	<140	3.A4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	140	<140	3.A 4.B
2-CHLORONAPHTHALENE	91-58-7	140	<140	3.A 4.B
ACENAPHTHYLENE	208-96-8	140	<140	3.A 4.B
DIMETHYLPHTHALATE	131-11-3	140	<140	3.A 4.B
2,6-DINITROTOLUENE	606-20-2	140	<140	3.A 4.B
ACENAPHTHENE	83-32-9	140	<140	3.A 4.B
2,4-DINITROTOLUENE	121-14-2	140	<140	3.A 4.B
FLUORENE	86-73-7	140	<140	3.A 4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	140	<140	3.A 4.B
DIETHYLPHTHALATE	84-66-2	140	<140	3.A 4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	140	<140	3.A 4.B
HEXACHLOROBENZENE	118-74-1	140	<140	3.A 4.B
PHENANTHRENE	85-01-8	140	602	
ANTHRACENE	120-12-7	140	<140	3.A 4.B
DI-n-BUTYLPHTHALATE	84-74-2	1,749	<1,749	3.A
FLUORANTHENE	206-44-0	140	544	
PYRENE	129-00-0	140	527	
BUTYLBENZYLPHTHALATE	85-68-7	140	<140	3.A4.K 4.B
CHRYSENE	218-01-9	140	224	4.B
BENZO-a-ANTHRACENE	56-55-3	140	238	4.B
3,3-DICHLOROBENZIDINE	91-94-1	140	<140	3.A 4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	1,749	3,367	
DI-n-OCTYLPHTHALATE	117-84-0	140	<140	3.A 4.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

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Date received: 3/17/10	Laboratory ID: 1193356
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	140	205	4.B
BENZO-k-FLUORANTHENE	207-08-9	140	<140	3.A 4.B
BENZO-a-PYRENE	50-32-8	140	154	4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	140	<140	3.A 4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	140	<140	3.A 4.B
BENZO-g,h,i-PERYLENE	191-24-2	140	<140	3.A 4.B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi-Laboratory Director

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Date received: 3/17/10	Laboratory ID: 1193356
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-8)
Date received: 3/17/10	Laboratory ID: 1193356
Date analyzed: See Below	Matrix: Sludge

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	2.26	03/19/2010	10,668	4.F
ANTIMONY, Sb	2.26	03/19/2010	<2.26	4.G
ARSENIC, As	2.26	03/19/2010	10.7	
BARIUM, Ba	4.55	03/19/2010	117	
BERYLLIUM, Be	2.26	03/19/2010	<2.26	
CADMIUM, Cd	1.37	03/19/2010	3.28	
CALCIUM, Ca	2.26	03/19/2010	12,533	4.F
CHROMIUM, Cr	2.26	03/19/2010	19.3	
COBALT, Co	2.26	03/19/2010	5.70	
COPPER, Cu	2.26	03/19/2010	124	4.G
IRON, Fe	2.26	03/19/2010	16,708	4.F
LEAD, Pb	2.26	03/19/2010	224	
MAGNESIUM, Mg	2.26	03/19/2010	3,638	4.F
MANGANESE, Mn	2.26	03/19/2010	134	
MERCURY, Hg•	0.02	03/19/2010	0.227	
NICKEL, Ni	2.26	03/19/2010	12	
POTASSIUM, K	2.26	03/19/2010	1,258	4.F
SELENIUM, Se	2.26	03/19/2010	<2.26	
SILVER, Ag	2.26	03/19/2010	<2.26	
SODIUM, Na	2.26	03/19/2010	152	
THALIUM, Tl	2.26	03/19/2010	<2.26	
VANADIUM, V	2.26	03/19/2010	19.8	
ZINC, Zn	2.26	03/19/2010	145	

MDL = Minimum Detection Limit.
Performed by SW-846 Method 6010
•Method: EPA 7471A

Calculated on a dry weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

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LONG ISLAND ANALYTICAL LABORATORIES, INC.
DATA REPORTING FLAGS

For reporting results, the following "Flags" are used:

1.A: Time not supplied by client, may have exceeded holding time
1.B: Holding time exceeded, results cannot be used for regulatory purposes
1.C: Holding time exceeded, analyze immediate parameter
1.D: Results based on volume supplied by client.

2.A: Sample received in incorrect container
2.B: Parameter not certifiable by NELAC.
2.C: Sample container received with head space
2.D: Cassette received without cap(s)
2.E: Sample not preserved, corrected upon receipt to a temperature of 4°C
2.F: Sample not preserved, corrected upon receipt with HNO_3 to pH <2
2.G: Sample not preserved, corrected upon receipt with HCL to pH <2
2.H: Sample not preserved, corrected upon receipt with H_2SO_4 to pH <2
2.I: Sample not preserved, corrected upon receipt with NaOH to pH >12
2.J: Sample not preserved, corrected upon receipt with $Na_2S_2O_3$
2.K: Sample not preserved, corrected upon receipt with Na2SO3.

3.A: Minimum detection limit raised due to matrix interference
3.B: Minimum detection limit raised due to target compound interference
3.C: Minimum detection limit raised due to non-target compound interference
3.D: Minimum detection limit raised due to insufficient sample volume

4.A: Estimated concentration, exceeds calibration range
4.B: Data reported below the lower limit of quantitation and should be considered to have an increased quantitative uncertainty.
4.C: Target compound found in blank
4.D: QC affected by matrix
4.E: QC does not meet acceptance criteria
4.F: Spike recovery does not meet QC criteria due to high target concentration
4.G: Spike recovery out of range due to matrix interference
4.H: Spike recovery out of range due to matrix inconsistency
4.I: Dilution Water does not meet QC Criteria
4.J: Continuing Calibration Verification (CCV) quality control levels low
4.K: Continuing Calibration Verification (CCV) quality control levels high

5.A: Insufficient sample volume received
5.B: Preliminary results, cannot be used for regulatory purposes.
5.C: Sampling information not supplied and/or sample not taken by qualified technician, therefore verifiability of the report is limited to results only. Report cannot be used for regulatory purposes.
5.D: Unable to verify that the wipe samples submitted conform to ASTM E1792 or specifications issued by the EPA.
5.E: Level found exceeds the maximum contaminant level (MCL) as set by local, state or federal agencies.
5.F: Estimated value, result is less than the sample quantitation limit but greater than zero
5.G: Required detection limit set by ELAP cannot be achieved

6.A: Subcontractor ELAP #11398
6.B: Subcontractor ELAP #10320
6.C: Subcontractor NVLAP #102047.0
6.D: Subcontractor AIHA #103005
6.E: Subcontractor ELAP #11685
6.F: Subcontractor ELAP #10248
6.G: Subcontractor ELAP #10155
6.H: Subcontractor ELAP #10750
6.I: Subcontractor ELAP #11777
6.J: Subcontractor ELAP #10145
6.K: Subcontractor ELAP #11838
6.L Subcontractor ELAP #11018
6.M Subcontractor ELAP #10108

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SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK • (516) 221-7500

CHAIN OF CUSTODY

0049253

ANALYSIS REQUIRED

LABORATORY: LIA

PROJECT NAME: YORKTOWN HTS.

PROJECT NO. 09-089

PROJECT LOCATION 3200 CROMPOUND RD.

SAMPLE I.D. NUMBER	DATE	TIME	COMP.	GRAB	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	VOC 8260	SVOC 8/N 8270	PCB's	TAL Metals					ADDITIONAL REQUIREMENTS
S-1	3-15-10	9:45		X	Soil	Septic System #1	2	X	X	X	X					1193350
						Septic tank (7' BGS)										
S-2	3-15-10	10:30		X	~~Soil~~ Soil	Septic System #1	2	X	X	X	X					1193351
					~~Sludge~~	Sub tile Field (3' BGS)										
S-4	3-15-10	12:00		X	Soil	Septic System #2	2	X	X	X	X					1193352
						Sub tile Field (3' BGS)										
S-5	3-16-10	10:00		X	Soil	Septic System #3	2	X	X	X	X					1193353
						Sub tile Field (2' BGS)										
S-6	3-16-10	10:15		X	~~Soil~~	Dosing tank #2 (3' BGS)	2	X	X	X	X					1193354
					Sludge											#9
S-7	3-16-10	10:30		X	~~Soil~~	Septic tank	2	X	X	X	X					1193355
					Sludge	System #3 (4' BGS)										
S-8	3-16-10	11:50		X	~~Soil~~	Septic system #4	2	X	X	X	X					1193356
					Sludge	Structure #1 (7' BGS)										

REL. BY (SIG.) | DATE/TIME | AGENT OF: | REC'D BY: | DATE/TIME | AGENT:

PRINT. NAME | PRINT. NAME

REL. BY (SIG.) | DATE/TIME | RECEIVED FOR LAB BY: | DATE/TIME | REMARKS:

PRINT. NAME: Steve Dukan | PRINT. NAME: Steve Lambenson | 3/17/10 | 300P | TEMP. 1.4

SAMPLER (SIGNATURE) | SAMPLER NAME (PRINT): Steve Dukan

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL #1193348

March 23, 2010

Soil Mechanics
Bob Cardinale
3770 Merrick Road
Seaford, New York 11783

[redacted]

Dear Mr Cardinale

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on March 17, 2010. Long Island Analytical Laboratories analyzed the samples on March 19, 2010 for the following:

CLIENT ID	ANALYSIS
S-9	EPA 8260, EPA 8270BN, EPA 8082, Total (23) Metals
S-10	EPA 8260, EPA 8270BN, EPA 8081/8082, Total (23) Metals

Samples received at 1.4°C.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted with the appropriate flag. Report shall not be reproduced except in full, without the written approval of the laboratory. Results relate only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-9)
Date received: 3/17/10	Laboratory ID: 1193348
Date extracted: 3/17/10	Matrix: Sludge
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	73	<73	3,C
1,1,1-TRICHLOROETHANE	71-55-6	73	<73	3,C
1,1,2,2-TETRACHLOROETHANE	79-34-5	73	<73	3,C
1,1,2-TRICHLOROETHANE	79-00-5	73	<73	3,C
1,1-DICHLOROETHANE	75-34-3	73	<73	3,C
1,1-DICHLOROETHENE	75-35-4	73	<73	3,C
1,1-DICHLOROPROPENE	563-58-6	73	<73	3,C
1,2,3-TRICHLOROBENZENE	87-61-6	73	<73	2,B 3,C
1,2,3-TRICHLOROPROPANE	96-18-4	73	<73	3,C
1,2,4-TRICHLOROBENZENE	120-82-1	73	<73	3,C
1,2,4-TRIMETHYLBENZENE	95-63-6	73	515	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	73	<73	3,C
1,2-DIBROMOETHANE	106-93-4	73	<73	3,C
1,2-DICHLOROBENZENE	95-50-1	73	<73	3,C
1,2-DICHLOROETHANE	107-06-2	73	<73	3,C
1,2-DICHLOROPROPANE	78-87-5	73	<73	3,C
1,3,5-TRIMETHYLBENZENE	108-67-8	73	123	
1,3-DICHLOROBENZENE	541-73-1	73	<73	3,C
1,3-DICHLOROPROPANE	142-28-9	73	<73	3,C
1,4-DICHLOROBENZENE	106-46-7	73	<73	3,C
2,2-DICHLOROPROPANE	594-20-7	73	<73	3,C
2-BUTANONE (MEK)	78-93-3	146	<146	3,C
2-CHLOROETHYL VINYL ETHER	110-75-8	73	<73	3,C
2-CHLOROTOLUENE	95-49-8	73	<73	3,C
2-HEXANONE	591-78-6	73	<73	3,C
4-CHLOROTOLUENE	106-43-4	73	<73	3,C
ACETONE	67-64-1	730	<730	3,C
BENZENE	71-43-2	73	<73	3,C
BROMOBENZENE	108-86-1	73	<73	3,C
BROMOCHLOROMETHANE	74-97-5	73	<73	3,C
BROMODICHLOROMETHANE	75-27-4	73	<73	3,C
BROMOFORM	75-25-2	73	<73	3,C
BROMOMETHANE	74-83-9	73	<73	3,C
CARBON DISULFIDE	75-15-0	73	<73	3,C
CARBON TETRACHLORIDE	56-23-5	73	<73	3,C
CHLOROBENZENE	108-90-7	73	<73	3,C

MDL = Minimum Detection Limit

Calculated on a dry weight basis

EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-9)
Date received: 3/17/10	Laboratory ID: 1193348
Date extracted: 3/17/10	Matrix: Sludge
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	73	<73	3,C
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	73	<73	3,C
CHLOROFORM	67-66-3	73	<73	3,C
CHLOROMETHANE	74-87-3	73	<73	3,C
cis[Z]-1,2DICHLOROETHENE	156-59-2	73	<73	3,C
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	73	<73	3,C
DIBROMOCHLOROMETHANE	124-48-1	73	<73	3,C
DIBROMOMETHANE	74-95-3	73	<73	3,C
DICHLORODIFLUOROMETHANE	75-71-8	73	<73	3,C
ETHYLBENZENE	100-41-4	73	165	
HEXACHLOROBUTADIENE	87-68-3	73	<73	3,C
ISOPROPYLBENZENE	98-82-8	73	<73	3,C
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	73	<73	3,C
METHYLENE CHLORIDE	75-09-2	73	<73	3,C
MTBE	1634-04-4	73	<73	3,C
NAPHTHALENE	91-20-3	73	<73	3,C
n-BUTYLBENZENE	104-51-8	73	<73	3,C
n-PROPYLBENZENE	103-65-1	73	104	
o-XYLENE	95-47-6	73	513	
p&m-XYLENE	1330-20-7	146	636	
p-ISOPROPYLTOLUENE	99-87-6	73	210	
sec-BUTYLBENZENE	135-98-8	73	137	
STYRENE	100-42-5	73	<73	3,C
tert-BUTYLBENZENE	98-06-6	73	<73	3,C
TETRACHLOROETHYLENE	127-18-4	73	<73	3,C
TOLUENE	108-88-3	73	<73	3,C
trans[E]-1,2-DICHLOROETHENE	156-60-5	73	<73	3,C
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	73	<73	3,C
TRICHLOROETHYLENE	79-01-6	73	<73	3,C
TRICHLOROMONOFLUOROMETHANE	75-69-4	73	<73	3,C
VINYL ACETATE	108-05-4	73	<73	3,C

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-9)
Date received: 3/17/10	Laboratory ID: 1193348
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	1,169	<1,169	3.B 4.B
1,3-DICHLOROBENZENE	541-73-1	1,169	<1,169	3.B 4.B
1,4-DICHLOROBENZENE	106-46-7	1,169	<1,169	3.B 4.B
1,2-DICHLOROBENZENE	95-50-1	1,169	<1,169	3.B 4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	1,169	<1,169	3.B 4.B
HEXACHLOROETHANE	67-72-1	1,169	<1,169	3.B 4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	1,169	<1,169	3.B 4.B
NITROBENZENE	98-95-3	1,169	<1,169	3.B 4.B
ISOPHORONE	78-59-1	1,169	<1,169	3.B 4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	1,169	<1,169	3.B 4.B
1,2,4-TRICHLOROBENZENE	120-82-1	1,169	<1,169	3.B 4.B
NAPHTHALENE	91-20-3	1,169	<1,169	3.B 4.B
HEXACHLOROBUTADIENE	87-68-3	1,169	<1,169	3.B4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	1,169	<1,169	3.B 4.B
2-CHLORONAPHTHALENE	91-58-7	1,169	<1,169	3.B 4.B
ACENAPHTHYLENE	208-96-8	1,169	<1,169	3.B 4.B
DIMETHYLPHTHALATE	131-11-3	1,169	<1,169	3.B 4.B
2,6-DINITROTOLUENE	606-20-2	1,169	<1,169	3.B 4.B
ACENAPHTHENE	83-32-9	1,169	<1,169	3.B 4.B
2,4-DINITROTOLUENE	121-14-2	1,169	<1,169	3.B 4.B
FLUORENE	86-73-7	1,169	<1,169	3.B 4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	1,169	<1,169	3.B 4.B
DIETHYLPHTHALATE	84-66-2	1,169	<1,169	3.B 4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	1,169	<1,169	3.B 4.B
HEXACHLOROBENZENE	118-74-1	1,169	<1,169	3.B 4.B
PHENANTHRENE	85-01-8	1,169	3,292	4.B
ANTHRACENE	120-12-7	1,169	<1,169	3.B 4.B
DI-n-BUTYLPHTHALATE	84-74-2	14,607	<14,607	3.B 4.B
FLUORANTHENE	206-44-0	1,169	4,909	
PYRENE	129-00-0	1,169	9,896	
BUTYLBENZYLPHTHALATE	85-68-7	1,169	15,155	4.K
CHRYSENE	218-01-9	1,169	2,941	4.B
BENZO-a-ANTHRACENE	56-55-3	1,169	3,877	4.B
3,3-DICHLOROBENZIDINE	91-94-1	1,169	<1,169	3.B 4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	14,607	287,135	
DI-n-OCTYLPHTHALATE	117-84-0	1,169	14,746	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-9)
Date received: 3/17/10	Laboratory ID: 1193348
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUORANTHENE	205-99-2	1,169	3,097	4.B
BENZO-k-FLUORANTHENE	207-08-9	1,169	<1,169	3.B 4.B
BENZO-a-PYRENE	50-32-8	1,169	1,909	4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	1,169	1,325	4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	1,169	<1,169	3.B 4.B
BENZO-g,h,i-PERYLENE	191-24-2	1,169	3,721	4.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-9)
Date received: 3/17/10	Laboratory ID: 1193348
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-9)
Date received: 3/17/10	Laboratory ID: 1193348
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	3.91	03/19/2010	12,840	4,F
ANTIMONY, Sb	3.91	03/19/2010	5.38	4,G
ARSENIC, As	3.91	03/19/2010	8.55	
BARIUM, Ba	7.89	03/19/2010	580	
BERYLLIUM, Be	3.91	03/19/2010	<3.91	
CADMIUM, Cd	2.37	03/19/2010	15.5	
CALCIUM, Ca	3.91	03/19/2010	20,192	4,F
CHROMIUM, Cr	3.91	03/19/2010	58.1	
COBALT, Co	3.91	03/19/2010	12.1	
COPPER, Cu	3.91	03/19/2010	350	4,G
IRON, Fe	3.91	03/19/2010	28,200	4,F
LEAD, Pb	3.91	03/19/2010	302	
MAGNESIUM, Mg	3.91	03/19/2010	10,342	4,F
MANGANESE, Mn	3.91	03/19/2010	364	
MERCURY, Hg•	0.04	03/19/2010	0.249	
NICKEL, Ni	3.91	03/19/2010	38.4	
POTASSIUM, K	3.91	03/19/2010	1,886	4,F
SELENIUM, Se	3.91	03/19/2010	<3.91	
SILVER, Ag	3.91	03/19/2010	<3.91	
SODIUM, Na	3.91	03/19/2010	632	
THALIUM, Tl	3.91	03/19/2010	<3.91	
VANADIUM, V	3.91	03/19/2010	29.1	
ZINC, Zn	3.91	03/19/2010	1,061	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-10)
Date received: 3/17/10	Laboratory ID: 1193349
Date extracted: 3/17/10	Matrix: Sludge
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	196	<196	3,B
1,1,1-TRICHLOROETHANE	71-55-6	196	<196	3,B
1,1,2,2-TETRACHLOROETHANE	79-34-5	196	<196	3,B
1,1,2-TRICHLOROETHANE	79-00-5	196	<196	3,B
1,1-DICHLOROETHANE	75-34-3	196	<196	3,B
1,1-DICHLOROETHENE	75-35-4	196	<196	3,B
1,1-DICHLOROPROPENE	563-58-6	196	<196	3,B
1,2,3-TRICHLOROBENZENE	87-61-6	196	418	2,B
1,2,3-TRICHLOROPROPANE	96-18-4	196	<196	3,B
1,2,4-TRICHLOROBENZENE	120-82-1	196	768	
1,2,4-TRIMETHYLBENZENE	95-63-6	196	<196	3,B
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	196	<196	3,B
1,2-DIBROMOETHANE	106-93-4	196	<196	3,B
1,2-DICHLOROBENZENE	95-50-1	196	4,485	
1,2-DICHLOROETHANE	107-06-2	196	<196	3,B
1,2-DICHLOROPROPANE	78-87-5	196	<196	3,B
1,3,5-TRIMETHYLBENZENE	108-67-8	196	<196	3,B
1,3-DICHLOROBENZENE	541-73-1	196	1,143	
1,3-DICHLOROPROPANE	142-28-9	196	<196	3,B
1,4-DICHLOROBENZENE	106-46-7	196	1,837	
2,2-DICHLOROPROPANE	594-20-7	196	<196	3,B
2-BUTANONE (MEK)	78-93-3	392	<392	3,B
2-CHLOROETHYL VINYL ETHER	110-75-8	196	<196	3,B
2-CHLOROTOLUENE	95-49-8	196	<196	3,B
2-HEXANONE	591-78-6	196	<196	3,B
4-CHLOROTOLUENE	106-43-4	196	<196	3,B
ACETONE	67-64-1	1,960	<1,960	3,B
BENZENE	71-43-2	196	<196	3,B
BROMOBENZENE	108-86-1	196	<196	3,B
BROMOCHLOROMETHANE	74-97-5	196	<196	3,B
BROMODICHLOROMETHANE	75-27-4	196	<196	3,B
BROMOFORM	75-25-2	196	<196	3,B
BROMOMETHANE	74-83-9	196	<196	3,B
CARBON DISULFIDE	75-15-0	196	<196	3,B
CARBON TETRACHLORIDE	56-23-5	196	<196	3,B
CHLOROBENZENE	108-90-7	196	<196	3,B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-10)
Date received: 3/17/10	Laboratory ID: 1193349
Date extracted: 3/17/10	Matrix: Sludge
Date analyzed: 3/17/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	196	<196	3,B
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	196	<196	3,B
CHLOROFORM	67-66-3	196	<196	3,B
CHLOROMETHANE	74-87-3	196	<196	3,B
cis[Z]-1,2DICHLOROETHENE	156-59-2	196	<196	3,B
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	196	<196	3,B
DIBROMOCHLOROMETHANE	124-48-1	196	<196	3,B
DIBROMOMETHANE	74-95-3	196	<196	3,B
DICHLORODIFLUOROMETHANE	75-71-8	196	<196	3,B
ETHYLBENZENE	100-41-4	196	<196	3,B
HEXACHLOROBUTADIENE	87-68-3	196	<196	3,B
ISOPROPYLBENZENE	98-82-8	196	<196	3,B
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	196	<196	3,B
METHYLENE CHLORIDE	75-09-2	196	<196	3,B
MTBE	1634-04-4	196	<196	3,B
NAPHTHALENE	91-20-3	196	236	
n-BUTYLBENZENE	104-51-8	196	<196	3,B
n-PROPYLBENZENE	103-65-1	196	<196	3,B
o-XYLENE	95-47-6	196	<196	3,B
p&m-XYLENE	1330-20-7	392	<392	3,B
p-ISOPROPYLTOLUENE	99-87-6	196	873	
sec-BUTYLBENZENE	135-98-8	196	<196	3,B
STYRENE	100-42-5	196	<196	3,B
tert-BUTYLBENZENE	98-06-6	196	<196	3,B
TETRACHLOROETHYLENE	127-18-4	196	<196	3,B
TOLUENE	108-88-3	196	22,853	
trans[E]-1,2-DICHLOROETHENE	156-60-5	196	<196	3,B
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	196	<196	3,B
TRICHLOROETHYLENE	79-01-6	196	<196	3,B
TRICHLOROMONOFLUOROMETHANE	75-69-4	196	<196	3,B
VINYL ACETATE	108-05-4	196	<196	3,B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-10)
Date received: 3/17/10	Laboratory ID: 1193349
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	314	<314	3.A 4.B
1,3-DICHLOROBENZENE	541-73-1	314	3,622	
1,4-DICHLOROBENZENE	106-46-7	314	5,713	
1,2-DICHLOROBENZENE	95-50-1	314	13,329	
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	314	<314	3.A 4.B
HEXACHLOROETHANE	67-72-1	314	<314	3.A 4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	314	<314	3.A 4.B
NITROBENZENE	98-95-3	314	<314	3.A 4.B
ISOPHORONE	78-59-1	314	<314	3.A 4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	314	<314	3.A 4.B
1,2,4-TRICHLOROBENZENE	120-82-1	314	7,004	
NAPHTHALENE	91-20-3	314	1,218	
HEXACHLOROBUTADIENE	87-68-3	314	<314	3.A4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	314	<314	3.A 4.B
2-CHLORONAPHTHALENE	91-58-7	314	<314	3.A 4.B
ACENAPHTHYLENE	208-96-8	314	<314	3.A 4.B
DIMETHYLPHTHALATE	131-11-3	314	<314	3.A 4.B
2,6-DINITROTOLUENE	606-20-2	314	<314	3.A 4.B
ACENAPHTHENE	83-32-9	314	<314	3.A 4.B
2,4-DINITROTOLUENE	121-14-2	314	<314	3.A 4.B
FLUORENE	86-73-7	314	<314	3.A 4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	314	<314	3.A 4.B
DIETHYLPHTHALATE	84-66-2	314	<314	3.A 4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	314	<314	3.A 4.B
HEXACHLOROBENZENE	118-74-1	314	<314	3.A 4.B
PHENANTHRENE	85-01-8	314	<314	3.A 4.B
ANTHRACENE	120-12-7	314	<314	3.A 4.B
DI-n-BUTYLPHTHALATE	84-74-2	3,920	<3,920	3.A 4.B
FLUORANTHENE	206-44-0	314	<314	3.A 4.B
PYRENE	129-00-0	314	<314	3.A 4.B
BUTYLBENZYLPHTHALATE	85-68-7	314	<314	3.A4.K 4.B
CHRYSENE	218-01-9	314	<314	3.A 4.B
BENZO-a-ANTHRACENE	56-55-3	314	<314	3.A 4.B
3,3-DICHLOROBENZIDINE	91-94-1	314	<314	3.A 4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	3,920	4,030	
DI-n-OCTYLPHTHALATE	117-84-0	314	<314	3.A 4.B

MDL = Minimum Detection Limit — Calculated on a dry weight basis

Method: 8270C

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-10)
Date received: 3/17/10	Laboratory ID: 1193349
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	314	<314	3.A 4.B
BENZO-k-FLUOROANTHENE	207-08-9	314	<314	3.A 4.B
BENZO-a-PYRENE	50-32-8	314	<314	3.A 4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	314	<314	3.A 4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	314	<314	3.A 4.B
BENZO-g,h,i-PERYLENE	191-24-2	314	<314	3.A 4.B

MDL = Minimum Detection Limit — Calculated on a dry weight basis

Method: 8270C

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-10)
Date received: 3/17/10	Laboratory ID: 1193349
Date extracted: 3/19/10	Matrix: Sludge
Date analyzed: 3/19/10	ELAP #: 11693

PESTICIDES EPA METHOD 8081A/8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Aldrin	309-00-2	5 ug/kg	<5	
α - BHC	319-84-6	5 ug/kg	<5	
β - BHC	319-85-7	5 ug/kg	<5	
δ - BHC	319-86-8	5 ug/kg	<5	
γ - BHC (Lindane)	58-89-9	5 ug/kg	<5	
Chlordane	12789-03-6	15 ug/kg	<15	
4,4'- DDD	72-54-8	5 ug/kg	<5	
4,4'-DDE	72-55-9	5 ug/kg	<5	
4,4'-DDT	50-29-3	5 ug/kg	<5	
Dieldrin	60-57-1	5 ug/kg	<5	
Endosulfan I	959-98-8	5 ug/kg	<5	
Endosulfan II	33212-65-9	5 ug/kg	<5	
Endosulfan sulfate	1031-07-8	5 ug/kg	<5	
Endrin	72-20-8	5 ug/kg	<5	
Endrin aldehyde	7421-93-4	5 ug/kg	<5	
Heptachlor	76-44-8	5 ug/kg	<5	
Heptachlor epoxide	1024-57-3	5 ug/kg	<5	
4,4'-Methoxychlor	72-43-5	5 ug/kg	<5	
Toxaphene	8001-35-2	200 ug/kg	<200	
Endrin ketone	53494-70-5	5 ug/kg	<5	
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-10)
Date received: 3/17/10	Laboratory ID: 1193349
Date analyzed: See Below	Matrix: Sludge

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	5.05	03/19/2010	4,858	
ANTIMONY, Sb	5.05	03/19/2010	<5.05	4.G
ARSENIC, As	5.05	03/19/2010	<5.05	
BARIUM, Ba	10.2	03/19/2010	555	
BERYLLIUM, Be	5.05	03/19/2010	<5.05	
CADMIUM, Cd	3.06	03/19/2010	3.93	
CALCIUM, Ca	5.05	03/19/2010	14,178	
CHROMIUM, Cr	5.05	03/19/2010	14.2	
COBALT, Co	5.05	03/19/2010	<5.05	
COPPER, Cu	5.05	03/19/2010	1,842	4.G
IRON, Fe	5.05	03/19/2010	9,160	
LEAD, Pb	5.05	03/19/2010	226	
MAGNESIUM, Mg	5.05	03/19/2010	1,443	
MANGANESE, Mn	5.05	03/19/2010	76.2	
MERCURY, Hg•	0.06	03/19/2010	3.86	
NICKEL, Ni	5.05	03/19/2010	25.4	
POTASSIUM, K	5.05	03/19/2010	917	
SELENIUM, Se	5.05	03/19/2010	<5.05	
SILVER, Ag	5.05	03/19/2010	17	
SODIUM, Na	5.05	03/19/2010	432	
THALIUM, Tl	5.05	03/19/2010	<5.05	
VANADIUM, V	5.05	03/19/2010	7.98	
ZINC, Zn	5.05	03/19/2010	1,601	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi-Laboratory Director

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LONG ISLAND ANALYTICAL LABORATORIES, INC.
DATA REPORTING FLAGS

For reporting results, the following "Flags" are used:

1.A: Time not supplied by client, may have exceeded holding time
1.B: Holding time exceeded, results cannot be used for regulatory purposes
1.C: Holding time exceeded, analyze immediate parameter
1.D: Results based on volume supplied by client.

2.A: Sample received in incorrect container
2.B: Parameter not certifiable by NELAC.
2.C: Sample container received with head space
2.D: Cassette received without cap(s)
2.E: Sample not preserved, corrected upon receipt to a temperature of 4°C
2.F: Sample not preserved, corrected upon receipt with HNO_3 to pH <2
2.G: Sample not preserved, corrected upon receipt with HCL to pH <2
2.H: Sample not preserved, corrected upon receipt with H_2SO_4 to pH <2
2.I: Sample not preserved, corrected upon receipt with NaOH to pH >12
2.J: Sample not preserved, corrected upon receipt with $Na_2S_2O_3$
2.K: Sample not preserved, corrected upon receipt with Na2SO3.

3.A: Minimum detection limit raised due to matrix interference
3.B: Minimum detection limit raised due to target compound interference
3.C: Minimum detection limit raised due to non-target compound interference
3.D: Minimum detection limit raised due to insufficient sample volume

4.A: Estimated concentration, exceeds calibration range
4.B: Data reported below the lower limit of quantitation and should be considered to have an increased quantitative uncertainty.
4.C: Target compound found in blank
4.D: QC affected by matrix
4.E: QC does not meet acceptance criteria
4.F: Spike recovery does not meet QC criteria due to high target concentration
4.G: Spike recovery out of range due to matrix interference
4.H: Spike recovery out of range due to matrix inconsistency
4.I: Dilution Water does not meet QC Criteria
4.J: Continuing Calibration Verification (CCV) quality control levels low
4.K: Continuing Calibration Verification (CCV) quality control levels high

5.A: Insufficient sample volume received
5.B: Preliminary results, cannot be used for regulatory purposes.
5.C: Sampling information not supplied and/or sample not taken by qualified technician, therefore verifiability of the report is limited to results only. Report cannot be used for regulatory purposes.
5.D: Unable to verify that the wipe samples submitted conform to ASTM E1792 or specifications issued by the EPA.
5.E: Level found exceeds the maximum contaminant level (MCL) as set by local, state or federal agencies.
5.F: Estimated value, result is less than the sample quantitation limit but greater than zero
5.G: Required detection limit set by ELAP cannot be achieved

6.A: Subcontractor ELAP #11398
6.B: Subcontractor ELAP #10320
6.C: Subcontractor NVLAP #102047.0
6.D: Subcontractor AIHA #103005
6.E: Subcontractor ELAP #11685
6.F: Subcontractor ELAP #10248
6.G: Subcontractor ELAP #10155
6.H: Subcontractor ELAP #10750
6.I: Subcontractor ELAP #11777
6.J: Subcontractor ELAP #10145
6.K: Subcontractor ELAP #11838
6.L Subcontractor ELAP #11018
6.M Subcontractor ELAP #10108

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SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK • (516) 221-7500

CHAIN OF CUSTODY

0049252

LABORATORY: LIA

PROJECT NAME: YORKTOWN HTS.

PROJECT NO. 09-089

PROJECT LOCATION 3200 CROMPOUND RD.

SAMPLE I.D. NUMBER	DATE	TIME	COMP.	GRAB	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	VOC 8260	SVOC 8270	PCB's	TAL Metals	Pest.				ADDITIONAL REQUIREMENTS
S-9	3-16-10	1.30		X	Soil	Septic System #4	2	X	X	X	X					1193348
					Sludge	Structure #2 (11' BGS)										
S-10	3-17-10	12:40		X	Sludge	Septic System #6										
						Septic tank (4' BGS)	2	X	X	X	X	X				1193345

ANALYSIS REQUIRED

REL. BY (SIG.)	DATE/TIME	AGENT OF:	RECD BY:	DATE/TIME	AGENT:
PRINT. NME.			PRINT. NME.		
REL. BY (SIG.)	DATE/TIME	RECEIVED FOR LAB BY:	DATE/TIME	REMARKS:	
PRINT. NME.		PRINT. NME. Ken Ambrosson	3/17/10 3:00P	Temp 1.4	
SAMPLER (SIGNATURE)		SAMPLER NAME (PRINT) Steve Anderson			

LONG
ISLAND
ANALYTICAL
LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL #1193431

March 24, 2010

Soil Mechanics
Bob Cardinale
3770 Merrick Road
Seaford, New York 11783

Re: 09-089, Yorktown Heights (S-11)

Dear Mr. Cardinale

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on March 18, 2010. Long Island Analytical Laboratories analyzed the samples on March 23, 2010 for the following:

CLIENT ID	ANALYSIS
S-11	EPA 8260, EPA 8270B/N, EPA 8081/8082, Total (23) Metals
S-12	EPA 8260, EPA 8270B/N, EPA 8081/8082, Total (23) Metals

Samples received at 1.3°C.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted with the appropriate flag. Report shall not be reproduced except in full, without the written approval of the laboratory. Results relate only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-11)
Date received: 3/18/10	Laboratory ID: 1193431
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	7.78	<7.78	
1,1,1-TRICHLOROETHANE	71-55-6	7.78	<7.78	
1,1,2,2-TETRACHLOROETHANE	79-34-5	7.78	<7.78	
1,1,2-TRICHLOROETHANE	79-00-5	7.78	<7.78	
1,1-DICHLOROETHANE	75-34-3	7.78	<7.78	
1,1-DICHLOROETHENE	75-35-4	7.78	<7.78	
1,1-DICHLOROPROPENE	563-58-6	7.78	<7.78	
1,2,3-TRICHLOROBENZENE	87-61-6	7.78	<7.78	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	7.78	<7.78	
1,2,4-TRICHLOROBENZENE	120-82-1	7.78	<7.78	
1,2,4-TRIMETHYLBENZENE	95-63-6	7.78	<7.78	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	7.78	<7.78	
1,2-DIBROMOETHANE	106-93-4	7.78	<7.78	
1,2-DICHLOROBENZENE	95-50-1	7.78	<7.78	
1,2-DICHLOROETHANE	107-06-2	7.78	<7.78	
1,2-DICHLOROPROPANE	78-87-5	7.78	<7.78	
1,3,5-TRIMETHYLBENZENE	108-67-8	7.78	<7.78	
1,3-DICHLOROBENZENE	541-73-1	7.78	<7.78	
1,3-DICHLOROPROPANE	142-28-9	7.78	<7.78	
1,4-DICHLOROBENZENE	106-46-7	7.78	<7.78	
2,2-DICHLOROPROPANE	594-20-7	7.78	<7.78	
2-BUTANONE (MEK)	78-93-3	15.6	<15.6	
2-CHLOROETHYL VINYL ETHER	110-75-8	7.78	<7.78	
2-CHLOROTOLUENE	95-49-8	7.78	<7.78	
2-HEXANONE	591-78-6	7.78	<7.78	
4-CHLOROTOLUENE	106-43-4	7.78	<7.78	
ACETONE	67-64-1	77.8	<77.8	
BENZENE	71-43-2	7.78	<7.78	
BROMOBENZENE	108-86-1	7.78	<7.78	
BROMOCHLOROMETHANE	74-97-5	7.78	<7.78	
BROMODICHLOROMETHANE	75-27-4	7.78	<7.78	
BROMOFORM	75-25-2	7.78	<7.78	
BROMOMETHANE	74-83-9	7.78	<7.78	
CARBON DISULFIDE	75-15-0	7.78	<7.78	
CARBON TETRACHLORIDE	56-23-5	7.78	<7.78	
CHLOROBENZENE	108-90-7	7.78	<7.78	

MDL = Minimum Detection Limit
Calculated on a dry weight basis
EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-11)
Date received: 3/18/10	Laboratory ID: 1193431
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	7.78	<7.78	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	7.78	<7.78	
CHLOROFORM	67-66-3	7.78	<7.78	
CHLOROMETHANE	74-87-3	7.78	<7.78	
cis[Z]-1,2DICHLOROETHENE	156-59-2	7.78	<7.78	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	7.78	<7.78	
DIBROMOCHLOROMETHANE	124-48-1	7.78	<7.78	
DIBROMOMETHANE	74-95-3	7.78	<7.78	
DICHLORODIFLUOROMETHANE	75-71-8	7.78	<7.78	
ETHYLBENZENE	100-41-4	7.78	<7.78	
HEXACHLOROBUTADIENE	87-68-3	7.78	<7.78	
ISOPROPYLBENZENE	98-82-8	7.78	<7.78	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	7.78	<7.78	
METHYLENE CHLORIDE	75-09-2	7.78	<7.78	
MTBE	1634-04-4	7.78	<7.78	
NAPHTHALENE	91-20-3	7.78	<7.78	
n-BUTYLBENZENE	104-51-8	7.78	<7.78	
n-PROPYLBENZENE	103-65-1	7.78	<7.78	
o-XYLENE	95-47-6	7.78	<7.78	
p&m-XYLENE	1330-20-7	15.6	<15.6	
p-ISOPROPYLTOLUENE	99-87-6	7.78	<7.78	
sec-BUTYLBENZENE	135-98-8	7.78	<7.78	
STYRENE	100-42-5	7.78	<7.78	
tert-BUTYLBENZENE	98-06-6	7.78	<7.78	
TETRACHLOROETHYLENE	127-18-4	7.78	<7.78	
TOLUENE	108-88-3	7.78	<7.78	
trans[E]-1,2-DICHLOROETHENE	156-60-5	7.78	<7.78	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	7.78	<7.78	
TRICHLOROETHYLENE	79-01-6	7.78	<7.78	
TRICHLOROMONOFLUOROMETHANE	75-69-4	7.78	<7.78	
VINYL ACETATE	108-05-4	7.78	<7.78	

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-11)
Date received: 3/18/10	Laboratory ID: 1193431
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	62.2	<62.2	4.B
1,3-DICHLOROBENZENE	541-73-1	62.2	<62.2	4.B
1,4-DICHLOROBENZENE	106-46-7	62.2	<62.2	4.B
1,2-DICHLOROBENZENE	95-50-1	62.2	<62.2	4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	62.2	<62.2	4.B
HEXACHLOROETHANE	67-72-1	62.2	<62.2	4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	62.2	<62.2	4.B
NITROBENZENE	98-95-3	62.2	<62.2	4.B
ISOPHORONE	78-59-1	62.2	<62.2	4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	62.2	<62.2	4.B
1,2,4-TRICHLOROBENZENE	120-82-1	62.2	<62.2	4.B
NAPHTHALENE	91-20-3	62.2	<62.2	4.B
HEXACHLOROBUTADIENE	87-68-3	62.2	<62.2	4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	62.2	<62.2	4.B
2-CHLORONAPHTHALENE	91-58-7	62.2	<62.2	4.B
ACENAPHTHYLENE	208-96-8	62.2	<62.2	4.B
DIMETHYLPHTHALATE	131-11-3	62.2	<62.2	4.B
2,6-DINITROTOLUENE	606-20-2	62.2	<62.2	4.B
ACENAPHTHENE	83-32-9	62.2	<62.2	4.B
2,4-DINITROTOLUENE	121-14-2	62.2	<62.2	4.B
FLUORENE	86-73-7	62.2	<62.2	4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	62.2	<62.2	4.B
DIETHYLPHTHALATE	84-66-2	62.2	<62.2	4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	62.2	<62.2	4.B
HEXACHLOROBENZENE	118-74-1	62.2	<62.2	4.B
PHENANTHRENE	85-01-8	62.2	<62.2	4.B
ANTHRACENE	120-12-7	62.2	<62.2	4.B
Di-n-BUTYLPHTHALATE	84-74-2	778	<778	4.B
FLUORANTHENE	206-44-0	62.2	<62.2	4.B
PYRENE	129-00-0	62.2	<62.2	4.B
BUTYLBENZYLPHTHALATE	85-68-7	62.2	<62.2	4.K 4.B
CHRYSENE	218-01-9	62.2	<62.2	4.B
BENZO-a-ANTHRACENE	56-55-3	62.2	<62.2	4.B
3,3-DICHLOROBENZIDINE	91-94-1	62.2	<62.2	4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	778	<778	4.B
Di-n-OCTYLPHTHALATE	117-84-0	62.2	<62.2	4.B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

LONG ISLAND ANALYTICAL LABORATORIES INC.
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110 Colin Drive • Holbrook, New York 11741
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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-11)
Date received: 3/18/10	Laboratory ID: 1193431
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	62.2	<62.2	4,B
BENZO-k-FLUOROANTHENE	207-08-9	62.2	<62.2	4,B
BENZO-a-PYRENE	50-32-8	62.2	<62.2	4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	62.2	<62.2	4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	62.2	<62.2	4,B
BENZO-g,h,i-PERYLENE	191-24-2	62.2	<62.2	4,B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi-Laboratory Director

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Date received: 3/18/10	Laboratory ID: 1193431
Date extracted: 3/22/10	Matrix: Soil
Date analyzed: 3/22/10	ELAP #: 11693

PESTICIDES EPA METHOD 8081A/8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Aldrin	309-00-2	5 ug/kg	<5	
α - BHC	319-84-6	5 ug/kg	<5	
β - BHC	319-85-7	5 ug/kg	<5	
δ - BHC	319-86-8	5 ug/kg	<5	
γ - BHC (Lindane)	58-89-9	5 ug/kg	<5	
Chlordane	12789-03-6	15 ug/kg	<15	
4,4'- DDD	72-54-8	5 ug/kg	<5	
4,4'-DDE	72-55-9	5 ug/kg	<5	
4,4'-DDT	50-29-3	5 ug/kg	<5	
Dieldrin	60-57-1	5 ug/kg	<5	
Endosulfan I	959-98-8	5 ug/kg	<5	
Endosulfan II	33212-65-9	5 ug/kg	<5	
Endosulfan sulfate	1031-07-8	5 ug/kg	<5	
Endrin	72-20-8	5 ug/kg	<5	
Endrin aldehyde	7421-93-4	5 ug/kg	<5	
Heptachlor	76-44-8	5 ug/kg	<5	
Heptachlor epoxide	1024-57-3	5 ug/kg	<5	
4,4'-Methoxychlor	72-43-5	5 ug/kg	<5	
Toxaphene	8001-35-2	200 ug/kg	<200	
Endrin ketone	53494-70-5	5 ug/kg	<5	
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-11)
Date received: 3/18/10	Laboratory ID: 1193431
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	2.27	03/22/2010	14,606	4.F
ANTIMONY, Sb	2.27	03/22/2010	<2.27	
ARSENIC, As	2.27	03/22/2010	<2.27	
BARIUM, Ba	4.59	03/22/2010	226	
BERYLLIUM, Be	2.27	03/22/2010	<2.27	
CADMIUM, Cd	1.38	03/22/2010	<1.38	
CALCIUM, Ca	2.27	03/22/2010	1,792	
CHROMIUM, Cr	2.27	03/22/2010	8.72	
COBALT, Co	2.27	03/22/2010	4.13	
COPPER, Cu	2.27	03/22/2010	238	
IRON, Fe	2.27	03/22/2010	12,516	4.F
LEAD, Pb	2.27	03/22/2010	69.2	
MAGNESIUM, Mg	2.27	03/22/2010	5,905	
MANGANESE, Mn	2.27	03/22/2010	114	
MERCURY, Hg•	0.02	03/23/2010	0.099	
NICKEL, Ni	2.27	03/22/2010	6.37	
POTASSIUM, K	2.27	03/22/2010	2,631	4.K
SELENIUM, Se	2.27	03/22/2010	<2.27	
SILVER, Ag	2.27	03/22/2010	<2.27	
SODIUM, Na	2.27	03/22/2010	163	4.K
THALIUM, Tl	2.27	03/22/2010	3.93	
VANADIUM, V	2.27	03/22/2010	15.7	
ZINC, Zn	2.27	03/22/2010	139	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-12)
Date received: 3/18/10	Laboratory ID: 1193432
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	5.92	<5.92	
1,1,1-TRICHLOROETHANE	71-55-6	5.92	<5.92	
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.92	<5.92	
1,1,2-TRICHLOROETHANE	79-00-5	5.92	<5.92	
1,1-DICHLOROETHANE	75-34-3	5.92	<5.92	
1,1-DICHLOROETHENE	75-35-4	5.92	<5.92	
1,1-DICHLOROPROPENE	563-58-6	5.92	<5.92	
1,2,3-TRICHLOROBENZENE	87-61-6	5.92	<5.92	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	5.92	<5.92	
1,2,4-TRICHLOROBENZENE	120-82-1	5.92	<5.92	
1,2,4-TRIMETHYLBENZENE	95-63-6	5.92	<5.92	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.92	<5.92	
1,2-DIBROMOETHANE	106-93-4	5.92	<5.92	
1,2-DICHLOROBENZENE	95-50-1	5.92	<5.92	
1,2-DICHLOROETHANE	107-06-2	5.92	<5.92	
1,2-DICHLOROPROPANE	78-87-5	5.92	<5.92	
1,3,5-TRIMETHYLBENZENE	108-67-8	5.92	<5.92	
1,3-DICHLOROBENZENE	541-73-1	5.92	<5.92	
1,3-DICHLOROPROPANE	142-28-9	5.92	<5.92	
1,4-DICHLOROBENZENE	106-46-7	5.92	<5.92	
2,2-DICHLOROPROPANE	594-20-7	5.92	<5.92	
2-BUTANONE (MEK)	78-93-3	11.8	<11.8	
2-CHLOROETHYL VINYL ETHER	110-75-8	5.92	<5.92	
2-CHLOROTOLUENE	95-49-8	5.92	<5.92	
2-HEXANONE	591-78-6	5.92	<5.92	
4-CHLOROTOLUENE	106-43-4	5.92	<5.92	
ACETONE	67-64-1	59.2	<59.2	
BENZENE	71-43-2	5.92	<5.92	
BROMOBENZENE	108-86-1	5.92	<5.92	
BROMOCHLOROMETHANE	74-97-5	5.92	<5.92	
BROMODICHLOROMETHANE	75-27-4	5.92	<5.92	
BROMOFORM	75-25-2	5.92	<5.92	
BROMOMETHANE	74-83-9	5.92	<5.92	
CARBON DISULFIDE	75-15-0	5.92	<5.92	
CARBON TETRACHLORIDE	56-23-5	5.92	<5.92	
CHLOROBENZENE	108-90-7	5.92	<5.92	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
EPA Method: 8260B

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Date received: 3/18/10	Laboratory ID: 1193432
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	5.92	<5.92	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	5.92	<5.92	
CHLOROFORM	67-66-3	5.92	<5.92	
CHLOROMETHANE	74-87-3	5.92	<5.92	
cis[Z]-1,2DICHLOROETHENE	156-59-2	5.92	<5.92	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	5.92	<5.92	
DIBROMOCHLOROMETHANE	124-48-1	5.92	<5.92	
DIBROMOMETHANE	74-95-3	5.92	<5.92	
DICHLORODIFLUOROMETHANE	75-71-8	5.92	<5.92	
ETHYLBENZENE	100-41-4	5.92	<5.92	
HEXACHLOROBUTADIENE	87-68-3	5.92	<5.92	
ISOPROPYLBENZENE	98-82-8	5.92	<5.92	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	5.92	<5.92	
METHYLENE CHLORIDE	75-09-2	5.92	<5.92	
MTBE	1634-04-4	5.92	<5.92	
NAPHTHALENE	91-20-3	5.92	<5.92	
n-BUTYLBENZENE	104-51-8	5.92	<5.92	
n-PROPYLBENZENE	103-65-1	5.92	<5.92	
o-XYLENE	95-47-6	5.92	<5.92	
p&m-XYLENE	1330-20-7	11.8	<11.8	
p-ISOPROPYLTOLUENE	99-87-6	5.92	<5.92	
sec-BUTYLBENZENE	135-98-8	5.92	<5.92	
STYRENE	100-42-5	5.92	<5.92	
tert-BUTYLBENZENE	98-06-6	5.92	<5.92	
TETRACHLOROETHYLENE	127-18-4	5.92	<5.92	
TOLUENE	108-88-3	5.92	<5.92	
trans[E]-1,2-DICHLOROETHENE	156-60-5	5.92	<5.92	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	5.92	<5.92	
TRICHLOROETHYLENE	79-01-6	5.92	<5.92	
TRICHLOROMONOFLUOROMETHANE	75-69-4	5.92	<5.92	
VINYL ACETATE	108-05-4	5.92	<5.92	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-12)
Date received: 3/18/10	Laboratory ID: 1193432
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	47.3	<47.3	4.B
1,3-DICHLOROBENZENE	541-73-1	47.3	<47.3	4.B
1,4-DICHLOROBENZENE	106-46-7	47.3	80.5	4.B
1,2-DICHLOROBENZENE	95-50-1	47.3	<47.3	4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	47.3	<47.3	4.B
HEXACHLOROETHANE	67-72-1	47.3	<47.3	4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	47.3	<47.3	4.B
NITROBENZENE	98-95-3	47.3	<47.3	4.B
ISOPHORONE	78-59-1	47.3	<47.3	4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	47.3	<47.3	4.B
1,2,4-TRICHLOROBENZENE	120-82-1	47.3	<47.3	4.B
NAPHTHALENE	91-20-3	47.3	<47.3	4.B
HEXACHLOROBUTADIENE	87-68-3	47.3	<47.3	4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	47.3	<47.3	4.B
2-CHLORONAPHTHALENE	91-58-7	47.3	<47.3	4.B
ACENAPHTHYLENE	208-96-8	47.3	<47.3	4.B
DIMETHYLPHTHALATE	131-11-3	47.3	<47.3	4.B
2,6-DINITROTOLUENE	606-20-2	47.3	<47.3	4.B
ACENAPHTHENE	83-32-9	47.3	<47.3	4.B
2,4-DINITROTOLUENE	121-14-2	47.3	<47.3	4.B
FLUORENE	86-73-7	47.3	<47.3	4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	47.3	<47.3	4.B
DIETHYLPHTHALATE	84-66-2	47.3	<47.3	4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	47.3	<47.3	4.B
HEXACHLOROBENZENE	118-74-1	47.3	<47.3	4.B
PHENANTHRENE	85-01-8	47.3	<47.3	4.B
ANTHRACENE	120-12-7	47.3	<47.3	4.B
DI-n-BUTYLPHTHALATE	84-74-2	592	<592	
FLUORANTHENE	206-44-0	47.3	<47.3	4.B
PYRENE	129-00-0	47.3	<47.3	4.B
BUTYLBENZYLPHTHALATE	85-68-7	47.3	<47.3	4.K 4.B
CHRYSENE	218-01-9	47.3	<47.3	4.B
BENZO-a-ANTHRACENE	56-55-3	47.3	<47.3	4.B
3,3-DICHLOROBENZIDINE	91-94-1	47.3	<47.3	4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	592	<592	
DI-n-OCTYLPHTHALATE	117-84-0	47.3	<47.3	4.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-12)
Date received: 3/18/10	Laboratory ID: 1193432
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	47.3	<47.3	4,B
BENZO-k-FLUORANTHENE	207-08-9	47.3	<47.3	4,B
BENZO-a-PYRENE	50-32-8	47.3	<47.3	4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	47.3	<47.3	4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	47.3	<47.3	4,B
BENZO-g,h,i-PERYLENE	191-24-2	47.3	<47.3	4,B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi-Laboratory Director

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Date extracted: 3/22/10	Matrix: Soil
Date analyzed: 3/22/10	ELAP #: 11693

PESTICIDES EPA METHOD 8081A/8082

COMPOUND	CAS No.	MDL	RESULTS ug/kg	FLAG
Aldrin	309-00-2	5 ug/kg	<5	
α - BHC	319-84-6	5 ug/kg	<5	
β - BHC	319-85-7	5 ug/kg	<5	
δ - BHC	319-86-8	5 ug/kg	<5	
γ - BHC (Lindane)	58-89-9	5 ug/kg	<5	
Chlordane	12789-03-6	15 ug/kg	<15	
4,4'- DDD	72-54-8	5 ug/kg	<5	
4,4'-DDE	72-55-9	5 ug/kg	<5	
4,4'-DDT	50-29-3	5 ug/kg	<5	
Dieldrin	60-57-1	5 ug/kg	<5	
Endosulfan I	959-98-8	5 ug/kg	<5	
Endosulfan II	33212-65-9	5 ug/kg	<5	
Endosulfan sulfate	1031-07-8	5 ug/kg	<5	
Endrin	72-20-8	5 ug/kg	<5	
Endrin aldehyde	7421-93-4	5 ug/kg	<5	
Heptachlor	76-44-8	5 ug/kg	<5	
Heptachlor epoxide	1024-57-3	5 ug/kg	<5	
4,4'-Methoxychlor	72-43-5	5 ug/kg	<5	
Toxaphene	8001-35-2	200 ug/kg	<200	
Endrin ketone	53494-70-5	5 ug/kg	<5	
Arochlor 1016	12674-11-2	200 ug/kg	<200	
Arochlor 1221	1104-28-2	200 ug/kg	<200	
Arochlor 1232	11141-16-5	200 ug/kg	<200	
Arochlor 1242	53469-21-9	200 ug/kg	<200	
Arochlor 1248	12672-29-6	200 ug/kg	<200	
Arochlor 1254	11097-69-1	200 ug/kg	<200	
Arochlor 1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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110 Colin Drive · Holbrook, New York 11741
Phone (631) 472-3400 · Fax (631) 472-8505 · Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-12)
Date received: 3/18/10	Laboratory ID: 1193432
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	1.67	03/22/2010	17,075	4.F
ANTIMONY, Sb	1.67	03/22/2010	<1.67	
ARSENIC, As	1.67	03/22/2010	<1.67	
BARIUM, Ba	3.37	03/22/2010	71.7	
BERYLLIUM, Be	1.67	03/22/2010	<1.67	
CADMIUM, Cd	1.01	03/22/2010	<1.01	
CALCIUM, Ca	1.67	03/22/2010	1,427	
CHROMIUM, Cr	1.67	03/22/2010	10.7	
COBALT, Co	1.67	03/22/2010	6.17	
COPPER, Cu	1.67	03/22/2010	30.7	
IRON, Fe	1.67	03/22/2010	21,437	4.F
LEAD, Pb	1.67	03/22/2010	6.33	
MAGNESIUM, Mg	1.67	03/22/2010	5,693	
MANGANESE, Mn	1.67	03/22/2010	241	
MERCURY, Hg•	0.02	03/23/2010	0.022	
NICKEL, Ni	1.67	03/22/2010	7.12	
POTASSIUM, K	1.67	03/22/2010	5,571	4.K
SELENIUM, Se	1.67	03/22/2010	<1.67	
SILVER, Ag	1.67	03/22/2010	<1.67	
SODIUM, Na	1.67	03/22/2010	99.3	4.K
THALIUM, Tl	1.67	03/22/2010	4.53	
VANADIUM, V	1.67	03/22/2010	25.8	
ZINC, Zn	1.67	03/22/2010	56.6	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi

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LONG ISLAND ANALYTICAL LABORATORIES, INC.
DATA REPORTING FLAGS

For reporting results, the following "Flags" are used:

1.A: Time not supplied by client, may have exceeded holding time
1.B: Holding time exceeded, results cannot be used for regulatory purposes
1.C: Holding time exceeded, analyze immediate parameter
1.D: Results based on volume supplied by client.

2.A: Sample received in incorrect container
2.B: Parameter not certifiable by NELAC.
2.C: Sample container received with head space
2.D: Cassette received without cap(s)
2.E: Sample not preserved, corrected upon receipt to a temperature of 4°C
2.F: Sample not preserved, corrected upon receipt with HNO_3 to pH <2
2.G: Sample not preserved, corrected upon receipt with HCL to pH <2
2.H: Sample not preserved, corrected upon receipt with H_2SO_4 to pH <2
2.I: Sample not preserved, corrected upon receipt with NaOH to pH >12
2.J: Sample not preserved, corrected upon receipt with $Na_2S_2O_3$
2.K: Sample not preserved, corrected upon receipt with Na2SO3.

3.A: Minimum detection limit raised due to matrix interference
3.B: Minimum detection limit raised due to target compound interference
3.C: Minimum detection limit raised due to non-target compound interference
3.D: Minimum detection limit raised due to insufficient sample volume

4.A: Estimated concentration, exceeds calibration range
4.B: Data reported below the lower limit of quantitation and should be considered to have an increased quantitative uncertainty.
4.C: Target compound found in blank
4.D: QC affected by matrix
4.E: QC does not meet acceptance criteria
4.F: Spike recovery does not meet QC criteria due to high target concentration
4.G: Spike recovery out of range due to matrix interference
4.H: Spike recovery out of range due to matrix inconsistency
4.I: Dilution Water does not meet QC Criteria
4.J: Continuing Calibration Verification (CCV) quality control levels low
4.K: Continuing Calibration Verification (CCV) quality control levels high

5.A: Insufficient sample volume received
5.B: Preliminary results, cannot be used for regulatory purposes.
5.C: Sampling information not supplied and/or sample not taken by qualified technician, therefore verifiability of the report is limited to results only. Report cannot be used for regulatory purposes.
5.D: Unable to verify that the wipe samples submitted conform to ASTM E1792 or specifications issued by the EPA.
5.E: Level found exceeds the maximum contaminant level (MCL) as set by local, state or federal agencies.
5.F: Estimated value, result is less than the sample quantitation limit but greater than zero
5.G: Required detection limit set by ELAP cannot be achieved

6.A: Subcontractor ELAP #11398
6.B: Subcontractor ELAP #10320
6.C: Subcontractor NVLAP #102047.0
6.D: Subcontractor AIHA #103005
6.E: Subcontractor ELAP #11685
6.F: Subcontractor ELAP #10248
6.G: Subcontractor ELAP #10155
6.H: Subcontractor ELAP #10750
6.I: Subcontractor ELAP #11777
6.J: Subcontractor ELAP #10145
6.K: Subcontractor ELAP #11838
6.L Subcontractor ELAP #11018
6.M Subcontractor ELAP #10108

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SOIL MECHANICS

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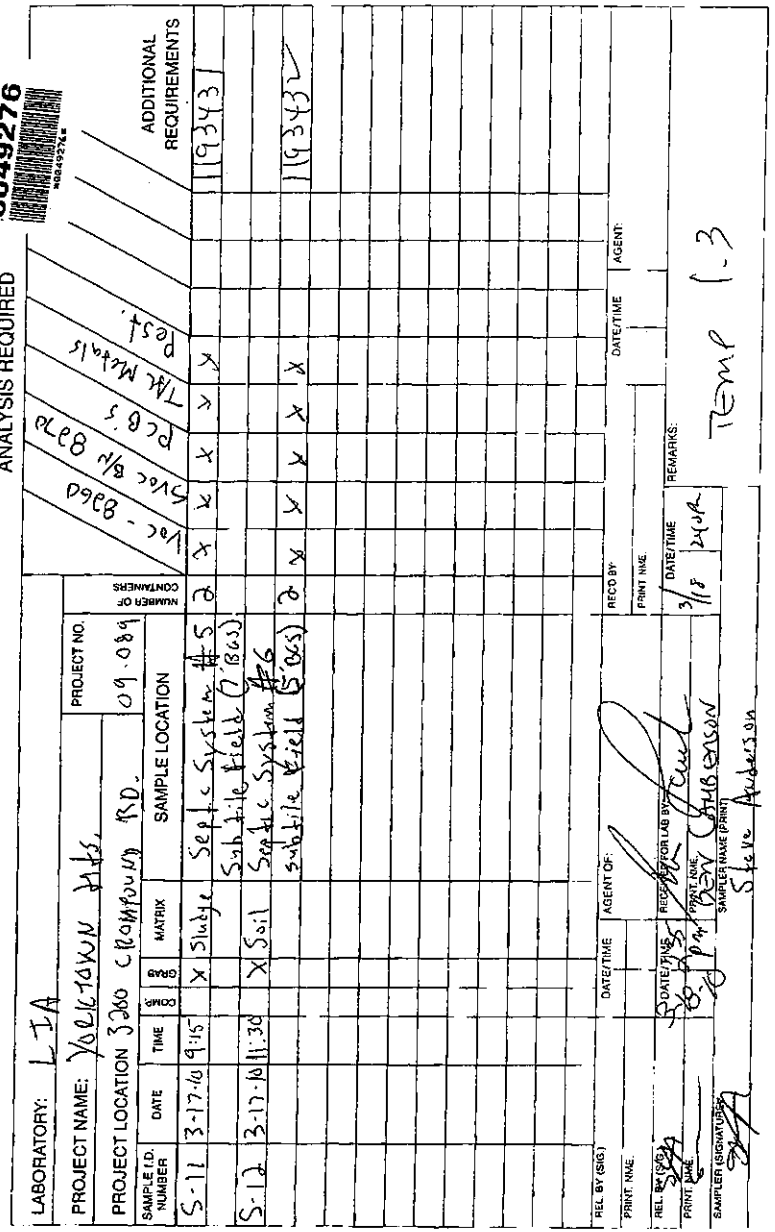
CHAIN OF CUSTODY



LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

1 of 20 pages

LIAL #1193461

March 24, 2010

Soil Mechanics
Bob Cardinale
3770 Merrick Road
Seaford, New York 11783

Re: [redacted]

Dear Mr. Cardinale

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on March 19, 2010. Long Island Analytical Laboratories analyzed the samples on March 23, 2010 for the following:

CLIENT ID	ANALYSIS
S-13	PCB Scan
S-14	PCB Scan
S-15	PCB Scan
S-16	PCB Scan
S-18	EPA 8260, EPA 8270BN
S-19	EPA 8260, EPA 8270BN
S-20	EPA 8260, EPA 8270BN, PCB Scan, Total (23) Metals

Samples received at 1.1°C.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted with the appropriate flag. Report shall not be reproduced except in full, without the written approval of the laboratory. Results relate only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-13)
Date received: 3/19/10	Laboratory ID: 1193461
Date extracted: 3/22/10	Matrix: Soil
Date analyzed: 3/22/10	ELAP #: 11693

EPA METHOD 8082 AROCHLORS

PARAMETER	CAS No.	MDL	RESULTS ug/kg	FLAG
AROCHLOR-1016	12674-11-2	200 ug/kg	<200	
AROCHLOR-1221	1104-28-2	200 ug/kg	<200	
AROCHLOR-1232	11141-16-5	200 ug/kg	<200	
AROCHLOR-1242	53469-21-9	200 ug/kg	<200	
AROCHLOR-1248	12672-29-6	200 ug/kg	<200	
AROCHLOR-1254	11097-69-1	200 ug/kg	<200	
AROCHLOR-1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-14)
Date received: 3/19/10	Laboratory ID: 1193462
Date extracted: 3/22/10	Matrix: Soil
Date analyzed: 3/22/10	ELAP #: 11693

EPA METHOD 8082 AROCHLORS

PARAMETER	CAS No.	MDL	RESULTS ug/kg	FLAG
AROCHLOR-1016	12674-11-2	200 ug/kg	<200	
AROCHLOR-1221	1104-28-2	200 ug/kg	<200	
AROCHLOR-1232	11141-16-5	200 ug/kg	<200	
AROCHLOR-1242	53469-21-9	200 ug/kg	<200	
AROCHLOR-1248	12672-29-6	200 ug/kg	<200	
AROCHLOR-1254	11097-69-1	200 ug/kg	<200	
AROCHLOR-1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-15)
Date received: 3/19/10	Laboratory ID: 1193463
Date extracted: 3/22/10	Matrix: Soil
Date analyzed: 3/22/10	ELAP #: 11693

EPA METHOD 8082 AROCHLORS

PARAMETER	CAS No.	MDL	RESULTS ug/kg	FLAG
AROCHLOR-1016	12674-11-2	200 ug/kg	<200	
AROCHLOR-1221	1104-28-2	200 ug/kg	<200	
AROCHLOR-1232	11141-16-5	200 ug/kg	<200	
AROCHLOR-1242	53469-21-9	200 ug/kg	<200	
AROCHLOR-1248	12672-29-6	200 ug/kg	<200	
AROCHLOR-1254	11097-69-1	200 ug/kg	<200	
AROCHLOR-1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-16)
Date received: 3/19/10	Laboratory ID: 1193464
Date extracted: 3/22/10	Matrix: Soil
Date analyzed: 3/22/10	ELAP #: 11693

EPA METHOD 8082 AROCHLORS

PARAMETER	CAS No.	MDL	RESULTS ug/kg	FLAG
AROCHLOR-1016	12674-11-2	200 ug/kg	<200	
AROCHLOR-1221	1104-28-2	200 ug/kg	<200	
AROCHLOR-1232	11141-16-5	200 ug/kg	<200	
AROCHLOR-1242	53469-21-9	200 ug/kg	<200	
AROCHLOR-1248	12672-29-6	200 ug/kg	<200	
AROCHLOR-1254	11097-69-1	200 ug/kg	<200	
AROCHLOR-1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-18)
Date received: 3/19/10	Laboratory ID: 1193465
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	5.84	<5.84	
1,1,1-TRICHLOROETHANE	71-55-6	5.84	<5.84	
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.84	<5.84	
1,1,2-TRICHLOROETHANE	79-00-5	5.84	<5.84	
1,1-DICHLOROETHANE	75-34-3	5.84	<5.84	
1,1-DICHLOROETHENE	75-35-4	5.84	<5.84	
1,1-DICHLOROPROPENE	563-58-6	5.84	<5.84	
1,2,3-TRICHLOROBENZENE	87-61-6	5.84	<5.84	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	5.84	<5.84	
1,2,4-TRICHLOROBENZENE	120-82-1	5.84	<5.84	
1,2,4-TRIMETHYLBENZENE	95-63-6	5.84	<5.84	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.84	<5.84	
1,2-DIBROMOETHANE	106-93-4	5.84	<5.84	
1,2-DICHLOROBENZENE	95-50-1	5.84	<5.84	
1,2-DICHLOROETHANE	107-06-2	5.84	<5.84	
1,2-DICHLOROPROPANE	78-87-5	5.84	<5.84	
1,3,5-TRIMETHYLBENZENE	108-67-8	5.84	<5.84	
1,3-DICHLOROBENZENE	541-73-1	5.84	<5.84	
1,3-DICHLOROPROPANE	142-28-9	5.84	<5.84	
1,4-DICHLOROBENZENE	106-46-7	5.84	<5.84	
2,2-DICHLOROPROPANE	594-20-7	5.84	<5.84	
2-BUTANONE (MEK)	78-93-3	11.7	<11.7	
2-CHLOROETHYL VINYL ETHER	110-75-8	5.84	<5.84	
2-CHLOROTOLUENE	95-49-8	5.84	<5.84	
2-HEXANONE	591-78-6	5.84	<5.84	
4-CHLOROTOLUENE	106-43-4	5.84	<5.84	
ACETONE	67-64-1	58.4	<58.4	
BENZENE	71-43-2	5.84	<5.84	
BROMOBENZENE	108-86-1	5.84	<5.84	
BROMOCHLOROMETHANE	74-97-5	5.84	<5.84	
BROMODICHLOROMETHANE	75-27-4	5.84	<5.84	
BROMOFORM	75-25-2	5.84	<5.84	
BROMOMETHANE	74-83-9	5.84	<5.84	
CARBON DISULFIDE	75-15-0	5.84	<5.84	
CARBON TETRACHLORIDE	56-23-5	5.84	<5.84	
CHLOROBENZENE	108-90-7	5.84	<5.84	

MDL = Minimum Detection Limit Calculated on a dry weight basis

EPA Method: 8260B

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-18)
Date received: 3/19/10	Laboratory ID: 1193465
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	5.84	<5.84	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	5.84	<5.84	
CHLOROFORM	67-66-3	5.84	<5.84	
CHLOROMETHANE	74-87-3	5.84	<5.84	
cis[Z]-1,2DICHLOROETHENE	156-59-2	5.84	<5.84	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	5.84	<5.84	
DIBROMOCHLOROMETHANE	124-48-1	5.84	<5.84	
DIBROMOMETHANE	74-95-3	5.84	<5.84	
DICHLORODIFLUOROMETHANE	75-71-8	5.84	<5.84	
ETHYLBENZENE	100-41-4	5.84	<5.84	
HEXACHLOROBUTADIENE	87-68-3	5.84	<5.84	
ISOPROPYLBENZENE	98-82-8	5.84	<5.84	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	5.84	<5.84	
METHYLENE CHLORIDE	75-09-2	5.84	<5.84	
MTBE	1634-04-4	5.84	<5.84	
NAPHTHALENE	91-20-3	5.84	<5.84	
n-BUTYLBENZENE	104-51-8	5.84	<5.84	
n-PROPYLBENZENE	103-65-1	5.84	<5.84	
o-XYLENE	95-47-6	5.84	<5.84	
p&m-XYLENE	1330-20-7	11.7	<11.7	
p-ISOPROPYLTOLUENE	99-87-6	5.84	<5.84	
sec-BUTYLBENZENE	135-98-8	5.84	<5.84	
STYRENE	100-42-5	5.84	<5.84	
tert-BUTYLBENZENE	98-06-6	5.84	<5.84	
TETRACHLOROETHYLENE	127-18-4	5.84	<5.84	
TOLUENE	108-88-3	5.84	<5.84	
trans[E]-1,2-DICHLOROETHENE	156-60-5	5.84	<5.84	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	5.84	<5.84	
TRICHLOROETHYLENE	79-01-6	5.84	<5.84	
TRICHLOROMONOFLUOROMETHANE	75-69-4	5.84	<5.84	
VINYL ACETATE	108-05-4	5.84	<5.84	

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-18)
Date received: 3/19/10	Laboratory ID: 1193465
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	93.4	<93.4	3.A 4.B
1,3-DICHLOROBENZENE	541-73-1	93.4	<93.4	3.A 4.B
1,4-DICHLOROBENZENE	106-46-7	93.4	<93.4	3.A 4.B
1,2-DICHLOROBENZENE	95-50-1	93.4	<93.4	3.A 4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	93.4	<93.4	3.A 4.B
HEXACHLOROETHANE	67-72-1	93.4	<93.4	3.A 4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	93.4	<93.4	3.A 4.B
NITROBENZENE	98-95-3	93.4	<93.4	3.A 4.B
ISOPHORONE	78-59-1	93.4	<93.4	3.A 4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	93.4	<93.4	3.A 4.B
1,2,4-TRICHLOROBENZENE	120-82-1	93.4	<93.4	3.A 4.B
NAPHTHALENE	91-20-3	93.4	<93.4	3.A 4.B
HEXACHLOROBUTADIENE	87-68-3	93.4	<93.4	3.A4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	93.4	<93.4	3.A 4.B
2-CHLORONAPHTHALENE	91-58-7	93.4	<93.4	3.A 4.B
ACENAPHTHYLENE	208-96-8	93.4	<93.4	3.A 4.B
DIMETHYLPHTHALATE	131-11-3	93.4	<93.4	3.A 4.B
2,6-DINITROTOLUENE	606-20-2	93.4	<93.4	3.A 4.B
ACENAPHTHENE	83-32-9	93.4	<93.4	3.A 4.B
2,4-DINITROTOLUENE	121-14-2	93.4	<93.4	3.A 4.B
FLUORENE	86-73-7	93.4	<93.4	3.A 4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	93.4	<93.4	3.A 4.B
DIETHYLPHTHALATE	84-66-2	93.4	<93.4	3.A 4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	93.4	<93.4	3.A 4.B
HEXACHLOROBENZENE	118-74-1	93.4	<93.4	3.A 4.B
PHENANTHRENE	85-01-8	93.4	198	4.B
ANTHRACENE	120-12-7	93.4	<93.4	3.A 4.B
DI-n-BUTYLPHTHALATE	84-74-2	1,168	<1,168	3.A
FLUORANTHENE	206-44-0	93.4	497	
PYRENE	129-00-0	93.4	481	
BUTYLBENZYLPHTHALATE	85-68-7	93.4	<93.4	3.A4.K 4.B
CHRYSENE	218-01-9	93.4	476	
BENZO-a-ANTHRACENE	56-55-3	93.4	266	4.B
3,3-DICHLOROBENZIDINE	91-94-1	93.4	<93.4	3.A 4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	1,168	<1,168	3.A
DI-n-OCTYLPHTHALATE	117-84-0	93.4	<93.4	3.A 4.B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-18)
Date received: 3/19/10	Laboratory ID: 1193465
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	93.4	518	
BENZO-k-FLUOROANTHENE	207-08-9	93.4	198	4.B
BENZO-a-PYRENE	50-32-8	93.4	377	
INDENO(1,2,3-c,d)PYRENE	193-39-5	93.4	339	
DIBENZO-a,h-ANTHRACENE	53-70-3	93.4	96.5	4.B
BENZO-g,h,i-PERYLENE	191-24-2	93.4	344	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

Michael Veraldi

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-19)
Date received: 3/19/10	Laboratory ID: 1193466
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	6.53	<6.53	
1,1,1-TRICHLOROETHANE	71-55-6	6.53	<6.53	
1,1,2,2-TETRACHLOROETHANE	79-34-5	6.53	<6.53	
1,1,2-TRICHLOROETHANE	79-00-5	6.53	<6.53	
1,1-DICHLOROETHANE	75-34-3	6.53	<6.53	
1,1-DICHLOROETHENE	75-35-4	6.53	<6.53	
1,1-DICHLOROPROPENE	563-58-6	6.53	<6.53	
1,2,3-TRICHLOROBENZENE	87-61-6	6.53	<6.53	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	6.53	<6.53	
1,2,4-TRICHLOROBENZENE	120-82-1	6.53	<6.53	
1,2,4-TRIMETHYLBENZENE	95-63-6	6.53	<6.53	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	6.53	<6.53	
1,2-DIBROMOETHANE	106-93-4	6.53	<6.53	
1,2-DICHLOROBENZENE	95-50-1	6.53	<6.53	
1,2-DICHLOROETHANE	107-06-2	6.53	<6.53	
1,2-DICHLOROPROPANE	78-87-5	6.53	<6.53	
1,3,5-TRIMETHYLBENZENE	108-67-8	6.53	<6.53	
1,3-DICHLOROBENZENE	541-73-1	6.53	<6.53	
1,3-DICHLOROPROPANE	142-28-9	6.53	<6.53	
1,4-DICHLOROBENZENE	106-46-7	6.53	<6.53	
2,2-DICHLOROPROPANE	594-20-7	6.53	<6.53	
2-BUTANONE (MEK)	78-93-3	13.1	<13.1	
2-CHLOROETHYL VINYL ETHER	110-75-8	6.53	<6.53	
2-CHLOROTOLUENE	95-49-8	6.53	<6.53	
2-HEXANONE	591-78-6	6.53	<6.53	
4-CHLOROTOLUENE	106-43-4	6.53	<6.53	
ACETONE	67-64-1	65.3	<65.3	
BENZENE	71-43-2	6.53	<6.53	
BROMOBENZENE	108-86-1	6.53	<6.53	
BROMOCHLOROMETHANE	74-97-5	6.53	<6.53	
BROMODICHLOROMETHANE	75-27-4	6.53	<6.53	
BROMOFORM	75-25-2	6.53	<6.53	
BROMOMETHANE	74-83-9	6.53	<6.53	
CARBON DISULFIDE	75-15-0	6.53	<6.53	
CARBON TETRACHLORIDE	56-23-5	6.53	<6.53	
CHLOROBENZENE	108-90-7	6.53	<6.53	

MDL = Minimum Detection Limit Calculated on a dry weight basis

EPA Method: 8260B

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110 Colin Drive • Holbrook, New York 11741
"TOMORROWS ANALYTICAL SOLUTIONS TODAY" Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-19)
Date received: 3/19/10	Laboratory ID: 1193466
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	6.53	<6.53	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	6.53	<6.53	
CHLOROFORM	67-66-3	6.53	<6.53	
CHLOROMETHANE	74-87-3	6.53	<6.53	
cis[Z]-1,2DICHLOROETHENE	156-59-2	6.53	<6.53	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	6.53	<6.53	
DIBROMOCHLOROMETHANE	124-48-1	6.53	<6.53	
DIBROMOMETHANE	74-95-3	6.53	<6.53	
DICHLORODIFLUOROMETHANE	75-71-8	6.53	<6.53	
ETHYLBENZENE	100-41-4	6.53	<6.53	
HEXACHLOROBUTADIENE	87-68-3	6.53	<6.53	
ISOPROPYLBENZENE	98-82-8	6.53	<6.53	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	6.53	<6.53	
METHYLENE CHLORIDE	75-09-2	6.53	<6.53	
MTBE	1634-04-4	6.53	<6.53	
NAPHTHALENE	91-20-3	6.53	<6.53	
n-BUTYLBENZENE	104-51-8	6.53	<6.53	
n-PROPYLBENZENE	103-65-1	6.53	<6.53	
o-XYLENE	95-47-6	6.53	<6.53	
p&m-XYLENE	1330-20-7	13.1	<13.1	
p-ISOPROPYLTOLUENE	99-87-6	6.53	<6.53	
sec-BUTYLBENZENE	135-98-8	6.53	<6.53	
STYRENE	100-42-5	6.53	<6.53	
tert-BUTYLBENZENE	98-06-6	6.53	<6.53	
TETRACHLOROETHYLENE	127-18-4	6.53	<6.53	
TOLUENE	108-88-3	6.53	<6.53	
trans[E]-1,2-DICHLOROETHENE	156-60-5	6.53	<6.53	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	6.53	<6.53	
TRICHLOROETHYLENE	79-01-6	6.53	<6.53	
TRICHLOROMONOFLUOROMETHANE	75-69-4	6.53	<6.53	
VINYL ACETATE	108-05-4	6.53	<6.53	

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8260B

Michael Veraldi

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
110 Colin Drive • Holbrook, New York 11741
"TOMORROWS ANALYTICAL SOLUTIONS TODAY" Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-19)
Date received: 3/19/10	Laboratory ID: 1193466
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	52.3	<52.3	4.B
1,3-DICHLOROBENZENE	541-73-1	52.3	<52.3	4.B
1,4-DICHLOROBENZENE	106-46-7	52.3	<52.3	4.B
1,2-DICHLOROBENZENE	95-50-1	52.3	<52.3	4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	52.3	<52.3	4.B
HEXACHLOROETHANE	67-72-1	52.3	<52.3	4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	52.3	<52.3	4.B
NITROBENZENE	98-95-3	52.3	<52.3	4.B
ISOPHORONE	78-59-1	52.3	<52.3	4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	52.3	<52.3	4.B
1,2,4-TRICHLOROBENZENE	120-82-1	52.3	<52.3	4.B
NAPHTHALENE	91-20-3	52.3	<52.3	4.B
HEXACHLOROBUTADIENE	87-68-3	52.3	<52.3	4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	52.3	<52.3	4.B
2-CHLORONAPHTHALENE	91-58-7	52.3	<52.3	4.B
ACENAPHTHYLENE	208-96-8	52.3	<52.3	4.B
DIMETHYLPHTHALATE	131-11-3	52.3	<52.3	4.B
2,6-DINITROTOLUENE	606-20-2	52.3	<52.3	4.B
ACENAPHTHENE	83-32-9	52.3	<52.3	4.B
2,4-DINITROTOLUENE	121-14-2	52.3	<52.3	4.B
FLUORENE	86-73-7	52.3	<52.3	4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	52.3	<52.3	4.B
DIETHYLPHTHALATE	84-66-2	52.3	<52.3	4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	52.3	<52.3	4.B
HEXACHLOROBENZENE	118-74-1	52.3	<52.3	4.B
PHENANTHRENE	85-01-8	52.3	94.1	4.B
ANTHRACENE	120-12-7	52.3	<52.3	4.B
DI-n-BUTYLPHTHALATE	84-74-2	653	<653	
FLUORANTHENE	206-44-0	52.3	73.2	4.B
PYRENE	129-00-0	52.3	113	4.B
BUTYLBENZYLPHTHALATE	85-68-7	52.3	<52.3	4.K 4.B
CHRYSENE	218-01-9	52.3	58.4	4.B
BENZO-a-ANTHRACENE	56-55-3	52.3	<52.3	4.B
3,3-DICHLOROBENZIDINE	91-94-1	52.3	<52.3	4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	653	<653	
DI-n-OCTYLPHTHALATE	117-84-0	52.3	<52.3	4.B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

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110 Colin Drive • Holbrook, New York 11741
"TOMORROWS ANALYTICAL SOLUTIONS TODAY" Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-19)
Date received: 3/19/10	Laboratory ID: 1193466
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	52.3	<52.3	4.B
BENZO-k-FLUOROANTHENE	207-08-9	52.3	<52.3	4.B
BENZO-a-PYRENE	50-32-8	52.3	<52.3	4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	52.3	<52.3	4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	52.3	<52.3	4.B
BENZO-g,h,i-PERYLENE	191-24-2	52.3	59.2	4.B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
110 Colin Drive • Holbrook, New York 11741
"TOMORROWS ANALYTICAL SOLUTIONS TODAY" Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-20)
Date received: 3/19/10	Laboratory ID: 1193467
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	5.81	<5.81	
1,1,1-TRICHLOROETHANE	71-55-6	5.81	<5.81	
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.81	<5.81	
1,1,2-TRICHLOROETHANE	79-00-5	5.81	<5.81	
1,1-DICHLOROETHANE	75-34-3	5.81	<5.81	
1,1-DICHLOROETHENE	75-35-4	5.81	<5.81	
1,1-DICHLOROPROPENE	563-58-6	5.81	<5.81	
1,2,3-TRICHLOROBENZENE	87-61-6	5.81	<5.81	2,B
1,2,3-TRICHLOROPROPANE	96-18-4	5.81	<5.81	
1,2,4-TRICHLOROBENZENE	120-82-1	5.81	<5.81	
1,2,4-TRIMETHYLBENZENE	95-63-6	5.81	<5.81	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5.81	<5.81	
1,2-DIBROMOETHANE	106-93-4	5.81	<5.81	
1,2-DICHLOROBENZENE	95-50-1	5.81	<5.81	
1,2-DICHLOROETHANE	107-06-2	5.81	<5.81	
1,2-DICHLOROPROPANE	78-87-5	5.81	<5.81	
1,3,5-TRIMETHYLBENZENE	108-67-8	5.81	<5.81	
1,3-DICHLOROBENZENE	541-73-1	5.81	<5.81	
1,3-DICHLOROPROPANE	142-28-9	5.81	<5.81	
1,4-DICHLOROBENZENE	106-46-7	5.81	<5.81	
2,2-DICHLOROPROPANE	594-20-7	5.81	<5.81	
2-BUTANONE (MEK)	78-93-3	11.6	<11.6	
2-CHLOROETHYL VINYL ETHER	110-75-8	5.81	<5.81	
2-CHLOROTOLUENE	95-49-8	5.81	<5.81	
2-HEXANONE	591-78-6	5.81	<5.81	
4-CHLOROTOLUENE	106-43-4	5.81	<5.81	
ACETONE	67-64-1	58.1	<58.1	
BENZENE	71-43-2	5.81	<5.81	
BROMOBENZENE	108-86-1	5.81	<5.81	
BROMOCHLOROMETHANE	74-97-5	5.81	<5.81	
BROMODICHLOROMETHANE	75-27-4	5.81	<5.81	
BROMOFORM	75-25-2	5.81	<5.81	
BROMOMETHANE	74-83-9	5.81	<5.81	
CARBON DISULFIDE	75-15-0	5.81	<5.81	
CARBON TETRACHLORIDE	56-23-5	5.81	<5.81	
CHLOROBENZENE	108-90-7	5.81	<5.81	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

EPA Method: 8260B

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive · Holbrook, New York 11741
Phone (631) 472-3400 · Fax (631) 472-8505 · Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-20)
Date received: 3/19/10	Laboratory ID: 1193467
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	5.81	<5.81	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	5.81	<5.81	
CHLOROFORM	67-66-3	5.81	<5.81	
CHLOROMETHANE	74-87-3	5.81	<5.81	
cis[Z]-1,2DICHLOROETHENE	156-59-2	5.81	<5.81	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	5.81	<5.81	
DIBROMOCHLOROMETHANE	124-48-1	5.81	<5.81	
DIBROMOMETHANE	74-95-3	5.81	<5.81	
DICHLORODIFLUOROMETHANE	75-71-8	5.81	<5.81	
ETHYLBENZENE	100-41-4	5.81	<5.81	
HEXACHLOROBUTADIENE	87-68-3	5.81	<5.81	
ISOPROPYLBENZENE	98-82-8	5.81	<5.81	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	5.81	<5.81	
METHYLENE CHLORIDE	75-09-2	5.81	<5.81	
MTBE	1634-04-4	5.81	<5.81	
NAPHTHALENE	91-20-3	5.81	<5.81	
n-BUTYLBENZENE	104-51-8	5.81	<5.81	
n-PROPYLBENZENE	103-65-1	5.81	<5.81	
o-XYLENE	95-47-6	5.81	<5.81	
p&m-XYLENE	1330-20-7	11.6	<11.6	
p-ISOPROPYLTOLUENE	99-87-6	5.81	<5.81	
sec-BUTYLBENZENE	135-98-8	5.81	<5.81	
STYRENE	100-42-5	5.81	<5.81	
tert-BUTYLBENZENE	98-06-6	5.81	<5.81	
TETRACHLOROETHYLENE	127-18-4	5.81	<5.81	
TOLUENE	108-88-3	5.81	<5.81	
trans[E]-1,2-DICHLOROETHENE	156-60-5	5.81	<5.81	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	5.81	<5.81	
TRICHLOROETHYLENE	79-01-6	5.81	<5.81	
TRICHLOROMONOFLUOROMETHANE	75-69-4	5.81	<5.81	
VINYL ACETATE	108-05-4	5.81	<5.81	

MDL = Minimum Detection Limit

Method: 8260B

Calculated on a dry weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive · Holbrook, New York 11741
Phone (631) 472-3400 · Fax (631) 472-8505 · Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-20)
Date received: 3/19/10	Laboratory ID: 1193467
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	46.5	<46.5	4.B
1,3-DICHLOROBENZENE	541-73-1	46.5	<46.5	4.B
1,4-DICHLOROBENZENE	106-46-7	46.5	<46.5	4.B
1,2-DICHLOROBENZENE	95-50-1	46.5	<46.5	4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	46.5	<46.5	4.B
HEXACHLOROETHANE	67-72-1	46.5	<46.5	4.B
n-NITROSODI-n-PROPYLAMINE	621-64-7	46.5	<46.5	4.B
NITROBENZENE	98-95-3	46.5	<46.5	4.B
ISOPHORONE	78-59-1	46.5	<46.5	4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	46.5	<46.5	4.B
1,2,4-TRICHLOROBENZENE	120-82-1	46.5	<46.5	4.B
NAPHTHALENE	91-20-3	46.5	<46.5	4.B
HEXACHLOROBUTADIENE	87-68-3	46.5	<46.5	4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	46.5	<46.5	4.B
2-CHLORONAPHTHALENE	91-58-7	46.5	<46.5	4.B
ACENAPHTHYLENE	208-96-8	46.5	<46.5	4.B
DIMETHYLPHTHALATE	131-11-3	46.5	<46.5	4.B
2,6-DINITROTOLUENE	606-20-2	46.5	<46.5	4.B
ACENAPHTHENE	83-32-9	46.5	<46.5	4.B
2,4-DINITROTOLUENE	121-14-2	46.5	<46.5	4.B
FLUORENE	86-73-7	46.5	<46.5	4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	46.5	<46.5	4.B
DIETHYLPHTHALATE	84-66-2	46.5	<46.5	4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	46.5	<46.5	4.B
HEXACHLOROBENZENE	118-74-1	46.5	<46.5	4.B
PHENANTHRENE	85-01-8	46.5	107	4.B
ANTHRACENE	120-12-7	46.5	<46.5	4.B
DI-n-BUTYLPHTHALATE	84-74-2	581	<581	
FLUORANTHENE	206-44-0	46.5	128	4.B
PYRENE	129-00-0	46.5	155	
BUTYLBENZYLPHTHALATE	85-68-7	46.5	<46.5	4 K 4.B
CHRYSENE	218-01-9	46.5	115	4.B
BENZO-a-ANTHRACENE	56-55-3	46.5	74.3	4.B
3,3-DICHLOROBENZIDINE	91-94-1	46.5	<46.5	4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	581	<581	
DI-n-OCTYLPHTHALATE	117-84-0	46.5	<46.5	4.B

MDL = Minimum Detection Limit — Calculated on a dry weight basis

Method: 8270C

LONG ISLAND ANALYTICAL LABORATORIES INC.
110 Colin Drive • Holbrook, New York 11741
"TOMORROWS ANALYTICAL SOLUTIONS TODAY" Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-20)
Date received: 3/19/10	Laboratory ID: 1193467
Date extracted: 3/19/10	Matrix: Soil
Date analyzed: 3/19/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUORANTHENE	205-99-2	46.5	149	4.B
BENZO-k-FLUORANTHENE	207-08-9	46.5	<46.5	4.B
BENZO-a-PYRENE	50-32-8	46.5	120	4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	46.5	75.1	4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	46.5	<46.5	4.B
BENZO-g,h,i-PERYLENE	191-24-2	46.5	106	4.B

MDL = Minimum Detection Limit — Calculated on a dry weight basis

Method: 8270C

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-20)
Date received: 3/19/10	Laboratory ID: 1193467
Date extracted: 3/22/10	Matrix: Soil
Date analyzed: 3/22/10	ELAP #: 11693

EPA METHOD 8082 AROCHLORS

PARAMETER	CAS No.	MDL	RESULTS ug/kg	FLAG
AROCHLOR-1016	12674-11-2	200 ug/kg	<200	
AROCHLOR-1221	1104-28-2	200 ug/kg	<200	
AROCHLOR-1232	11141-16-5	200 ug/kg	<200	
AROCHLOR-1242	53469-21-9	200 ug/kg	<200	
AROCHLOR-1248	12672-29-6	200 ug/kg	<200	
AROCHLOR-1254	11097-69-1	200 ug/kg	<200	
AROCHLOR-1260	11096-82-5	200 ug/kg	<200	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi

Michael Veraldi-Laboratory Director

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-20)
Date received: 3/19/10	Laboratory ID: 1193467
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	1.67	03/22/2010	15,199	4,F
ANTIMONY, Sb	1.67	03/22/2010	<1.67	
ARSENIC, As	1.67	03/22/2010	5.20	
BARIUM, Ba	3.37	03/22/2010	51.5	
BERYLLIUM, Be	1.67	03/22/2010	<1.67	
CADMIUM, Cd	1.01	03/22/2010	<1.01	
CALCIUM, Ca	1.67	03/22/2010	14,418	
CHROMIUM, Cr	1.67	03/22/2010	14.7	
COBALT, Co	1.67	03/22/2010	10.2	
COPPER, Cu	1.67	03/22/2010	31	
IRON, Fe	1.67	03/23/2010	25,611	4,F
LEAD, Pb	1.67	03/22/2010	26	
MAGNESIUM, Mg	1.67	03/22/2010	9,188	
MANGANESE, Mn	1.67	03/22/2010	922	
MERCURY, Hg•	0.02	03/23/2010	0.041	
NICKEL, Ni	1.67	03/22/2010	18.4	
POTASSIUM, K	1.67	03/22/2010	1,467	4,K
SELENIUM, Se	1.67	03/22/2010	<1.67	
SILVER, Ag	1.67	03/22/2010	<1.67	
SODIUM, Na	1.67	03/22/2010	61.6	4,K
THALIUM, Tl	1.67	03/22/2010	<1.67	
VANADIUM, V	1.67	03/22/2010	17.7	
ZINC, Zn	1.67	03/22/2010	98.4	

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi

Michael Veraldi-Laboratory Director

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DATA REPORTING FLAGS

For reporting results, the following "Flags" are used:

1.A: Time not supplied by client, may have exceeded holding time
1.B: Holding time exceeded, results cannot be used for regulatory purposes
1.C: Holding time exceeded, analyze immediate parameter
1.D: Results based on volume supplied by client.

2.A: Sample received in incorrect container
2.B: Parameter not certifiable by NELAC.
2.C: Sample container received with head space
2.D: Cassette received without cap(s)
2.E: Sample not preserved, corrected upon receipt to a temperature of 4°C
2.F: Sample not preserved, corrected upon receipt with HNO_3 to pH <2
2.G: Sample not preserved, corrected upon receipt with HCL to pH <2
2.H: Sample not preserved, corrected upon receipt with H_2SO_4 to pH <2
2.I: Sample not preserved, corrected upon receipt with NaOH to pH >12
2.J: Sample not preserved, corrected upon receipt with $Na_2S_2O_3$
2.K: Sample not preserved, corrected upon receipt with Na2SO3.

3.A: Minimum detection limit raised due to matrix interference
3.B: Minimum detection limit raised due to target compound interference
3.C: Minimum detection limit raised due to non-target compound interference
3.D: Minimum detection limit raised due to insufficient sample volume

4.A: Estimated concentration, exceeds calibration range
4.B: Data reported below the lower limit of quantitation and should be considered to have an increased quantitative uncertainty.
4.C: Target compound found in blank
4.D: QC affected by matrix
4.E: QC does not meet acceptance criteria
4.F: Spike recovery does not meet QC criteria due to high target concentration
4.G: Spike recovery out of range due to matrix interference
4.H: Spike recovery out of range due to matrix inconsistency
4.I: Dilution Water does not meet QC Criteria
4.J: Continuing Calibration Verification (CCV) quality control levels low
4.K: Continuing Calibration Verification (CCV) quality control levels high

5.A: Insufficient sample volume received
5.B: Preliminary results, cannot be used for regulatory purposes.
5.C: Sampling information not supplied and/or sample not taken by qualified technician, therefore verifiability of the report is limited to results only. Report cannot be used for regulatory purposes.
5.D: Unable to verify that the wipe samples submitted conform to ASTM E1792 or specifications issued by the EPA.
5.E: Level found exceeds the maximum contaminant level (MCL) as set by local, state or federal agencies.
5.F: Estimated value, result is less than the sample quantitation limit but greater than zero
5.G: Required detection limit set by ELAP cannot be achieved

6.A: Subcontractor ELAP #11398
6.B: Subcontractor ELAP #10320
6.C: Subcontractor NVLAP #102047.0
6.D: Subcontractor AIHA #103005
6.E: Subcontractor ELAP #11685
6.F: Subcontractor ELAP #10248
6.G: Subcontractor ELAP #10155
6.H: Subcontractor ELAP #10750
6.I: Subcontractor ELAP #11777
6.J: Subcontractor ELAP #10145
6.K: Subcontractor ELAP #11838
6.L: Subcontractor ELAP #11018
6.M: Subcontractor ELAP #10108

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SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK • (516) 221-7500

(23)

CHAIN OF CUSTODY

0049293

LABORATORY: Long Island Analytical
PROJECT NAME: 3200 Crompound Rd
PROJECT NO. 09-089
PROJECT LOCATION: Yorktown Heights

ANALYSIS REQUIRED

SAMPLE I.D. NUMBER	DATE	TIME	COMP.	GRAB	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	PCBs-8082	VOCs-8260	SVOCs BN (8270)	TAL Metals						ADDITIONAL REQUIREMENTS
S-13	3-19-10	800 Am		X	Soil	Transformer (North)	1	X									119346 1
S-14		825 Am		X		Transformer (South)	1	X									119346 2
S-15		815 Am		X		Transformer (East)	1	X									119346 3
S-16		820 Am		X		Transformer (West)	1	X									119346 4
S-18		835 Am		X		Generator BLDG AST	2		X	X							119346 5
S-19		925 Am		X		South Residence AST	2		X	X							119346 6
S-20	3-19-10	910 Am		X	Soil	Drum Storage	2	X	X	X	X						119346 7

REL. BY (SIG.)	DATE/TIME	AGENT OF:	REC'D BY:	DATE/TIME	AGENT:
PRINT. NME.			PRINT. NME.		
REL. BY (SIG.) [signature]	DATE/TIME 3/19/10	RECEIVED FOR LAB BY: [signature]	DATE/TIME 3/19/10 4:20P	REMARKS: TEMP 1.1	
PRINT. NME. David M Shencovitz		PRINT. NME. Ben Lamberson			
SAMPLER (SIGNATURE) [signature]		SAMPLER NAME (PRINT) David M. Shencovitz			

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL #1193520

March 26, 2010

Soil Mechanics
Bob Cardinale
3770 Merrick Road
Seaford, New York 11783

[redacted]

Dear Mr Cardinale

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on March 22, 2010. Long Island Analytical Laboratories analyzed the samples on March 25, 2010 for the following:

CLIENT ID	ANALYSIS
S-17	EPA 8260, EPA 8270BN, PCB Scan, Total (23) Metals

Samples received at 2.2°C.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted with the appropriate flag. Report shall not be reproduced except in full, without the written approval of the laboratory. Results relate only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-17)
Date received: 3/22/10	Laboratory ID: 1193520
Date extracted: 3/23/10	Matrix: Soil
Date analyzed: 3/23/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	6.12	<6.12	
1,1,1-TRICHLOROETHANE	71-55-6	6.12	<6.12	
1,1,2,2-TETRACHLOROETHANE	79-34-5	6.12	<6.12	
1,1,2-TRICHLOROETHANE	79-00-5	6.12	<6.12	
1,1-DICHLOROETHANE	75-34-3	6.12	<6.12	
1,1-DICHLOROETHENE	75-35-4	6.12	<6.12	
1,1-DICHLOROPROPENE	563-58-6	6.12	<6.12	
1,2,3-TRICHLOROBENZENE	87-61-6	6.12	<6.12	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	6.12	<6.12	
1,2,4-TRICHLOROBENZENE	120-82-1	6.12	<6.12	
1,2,4-TRIMETHYLBENZENE	95-63-6	6.12	<6.12	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	6.12	<6.12	
1,2-DIBROMOETHANE	106-93-4	6.12	<6.12	
1,2-DICHLOROBENZENE	95-50-1	6.12	<6.12	
1,2-DICHLOROETHANE	107-06-2	6.12	<6.12	
1,2-DICHLOROPROPANE	78-87-5	6.12	<6.12	
1,3,5-TRIMETHYLBENZENE	108-67-8	6.12	<6.12	
1,3-DICHLOROBENZENE	541-73-1	6.12	<6.12	
1,3-DICHLOROPROPANE	142-28-9	6.12	<6.12	
1,4-DICHLOROBENZENE	106-46-7	6.12	<6.12	
2,2-DICHLOROPROPANE	594-20-7	6.12	<6.12	
2-BUTANONE (MEK)	78-93-3	12.2	<12.2	
2-CHLOROETHYL VINYL ETHER	110-75-8	6.12	<6.12	
2-CHLOROTOLUENE	95-49-8	6.12	<6.12	
2-HEXANONE	591-78-6	6.12	<6.12	
4-CHLOROTOLUENE	106-43-4	6.12	<6.12	
ACETONE	67-64-1	61.2	<61.2	
BENZENE	71-43-2	6.12	<6.12	
BROMOBENZENE	108-86-1	6.12	<6.12	
BROMOCHLOROMETHANE	74-97-5	6.12	<6.12	
BROMODICHLOROMETHANE	75-27-4	6.12	<6.12	
BROMOFORM	75-25-2	6.12	<6.12	
BROMOMETHANE	74-83-9	6.12	<6.12	
CARBON DISULFIDE	75-15-0	6.12	<6.12	
CARBON TETRACHLORIDE	56-23-5	6.12	<6.12	
CHLOROBENZENE	108-90-7	6.12	<6.12	

MDL = Minimum Detection Limit Calculated on a dry weight basis

EPA Method: 8260B

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Date received: 3/22/10	Laboratory ID: 1193520
Date extracted: 3/23/10	Matrix: Soil
Date analyzed: 3/23/10	ELAP #: 11693

EPA METHOD 8260B

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
CHLOROETHANE	75-00-3	6.12	<6.12	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	6.12	<6.12	
CHLOROFORM	67-66-3	6.12	<6.12	
CHLOROMETHANE	74-87-3	6.12	<6.12	
cis[Z]-1,2DICHLOROETHENE	156-59-2	6.12	<6.12	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	6.12	<6.12	
DIBROMOCHLOROMETHANE	124-48-1	6.12	<6.12	
DIBROMOMETHANE	74-95-3	6.12	<6.12	
DICHLORODIFLUOROMETHANE	75-71-8	6.12	<6.12	
ETHYLBENZENE	100-41-4	6.12	<6.12	
HEXACHLOROBUTADIENE	87-68-3	6.12	<6.12	
ISOPROPYLBENZENE	98-82-8	6.12	<6.12	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	6.12	<6.12	
METHYLENE CHLORIDE	75-09-2	6.12	<6.12	
MTBE	1634-04-4	6.12	<6.12	
NAPHTHALENE	91-20-3	6.12	<6.12	
n-BUTYLBENZENE	104-51-8	6.12	<6.12	
n-PROPYLBENZENE	103-65-1	6.12	<6.12	
o-XYLENE	95-47-6	6.12	<6.12	
p&m-XYLENE	1330-20-7	12.2	<12.2	
p-ISOPROPYLTOLUENE	99-87-6	6.12	<6.12	
sec-BUTYLBENZENE	135-98-8	6.12	<6.12	
STYRENE	100-42-5	6.12	<6.12	
tert-BUTYLBENZENE	98-06-6	6.12	<6.12	
TETRACHLOROETHYLENE	127-18-4	6.12	<6.12	
TOLUENE	108-88-3	6.12	<6.12	
trans[E]-1,2-DICHLOROETHENE	156-60-5	6.12	<6.12	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	6.12	<6.12	
TRICHLOROETHYLENE	79-01-6	6.12	<6.12	
TRICHLOROMONOFLUOROMETHANE	75-69-4	6.12	<6.12	
VINYL ACETATE	108-05-4	6.12	<6.12	

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8260B

Michael Veraldi-Laboratory Director

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Date received: 3/22/10	Laboratory ID: 1193520
Date extracted: 3/23/10	Matrix: Soil
Date analyzed: 3/23/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	48.9	<48.9	4,B
1,3-DICHLOROBENZENE	541-73-1	48.9	<48.9	4,B
1,4-DICHLOROBENZENE	106-46-7	48.9	<48.9	4,B
1,2-DICHLOROBENZENE	95-50-1	48.9	<48.9	4,B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	48.9	<48.9	4,B
HEXACHLOROETHANE	67-72-1	48.9	<48.9	4,B
n-NITROSODI-n-PROPYLAMINE	621-64-7	48.9	<48.9	4,B
NITROBENZENE	98-95-3	48.9	<48.9	4,B
ISOPHORONE	78-59-1	48.9	<48.9	4,B
bis(2-CHLOROETHOXY)METHANE	111-91-1	48.9	<48.9	4,B
1,2,4-TRICHLOROBENZENE	120-82-1	48.9	<48.9	4,B
NAPHTHALENE	91-20-3	48.9	<48.9	4,B
HEXACHLOROBUTADIENE	87-68-3	48.9	<48.9	4,B
HEXACHLOROCYCLOPENTADIENE	77-47-4	48.9	<48.9	4,B
2-CHLORONAPHTHALENE	91-58-7	48.9	<48.9	4,B
ACENAPHTHYLENE	208-96-8	48.9	<48.9	4,B
DIMETHYLPHTHALATE	131-11-3	48.9	<48.9	4,B
2,6-DINITROTOLUENE	606-20-2	48.9	<48.9	4,B
ACENAPHTHENE	83-32-9	48.9	<48.9	4,B
2,4-DINITROTOLUENE	121-14-2	48.9	<48.9	4,B
FLUORENE	86-73-7	48.9	<48.9	4,B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	48.9	<48.9	4,B
DIETHYLPHTHALATE	84-66-2	48.9	<48.9	4,B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	48.9	<48.9	4,B
HEXACHLOROBENZENE	118-74-1	48.9	<48.9	4,B
PHENANTHRENE	85-01-8	48.9	50.6	4,B
ANTHRACENE	120-12-7	48.9	<48.9	4,B
DI-n-BUTYLPHTHALATE	84-74-2	612	<612	
FLUORANTHENE	206-44-0	48.9	71.8	4,B
PYRENE	129-00-0	48.9	59.5	4,B
BUTYLBENZYLPHTHALATE	85-68-7	48.9	<48.9	4,B
CHRYSENE	218-01-9	48.9	62.8	4,B
BENZO-a-ANTHRACENE	56-55-3	48.9	<48.9	4,B
3,3-DICHLOROBENZIDINE	91-94-1	48.9	<48.9	4,B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	612	1,509	
DI-n-OCTYLPHTHALATE	117-84-0	48.9	<48.9	4,B

MDL = Minimum Detection Limit

Calculated on a dry weight basis

Method: 8270C

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Date analyzed: 3/23/10	ELAP #: 11693

EPA METHOD 8270C(BN)

PARAMETER	CAS No.	MDL ug/kg	RESULTS ug/kg	FLAG
BENZO-b-FLUORANTHENE	205-99-2	48.9	55.5	4,B
BENZO-k-FLUORANTHENE	207-08-9	48.9	<48.9	4,B
BENZO-a-PYRENE	50-32-8	48.9	<48.9	4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	48.9	<48.9	4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	48.9	<48.9	4,B
BENZO-g,h,i-PERYLENE	191-24-2	48.9	<48.9	4,B

MDL = Minimum Detection Limit Calculated on a dry weight basis

Method: 8270C

Michael Veraldi-Laboratory Director

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Date received: 3/22/10	Laboratory ID: 1193520
Date extracted: 3/25/10	Matrix: Soil
Date analyzed: 3/25/10	ELAP #: 11693

EPA METHOD 8082 AROCHLORS

PARAMETER	CAS No.	MDL	RESULTS ug/kg	FLAG
AROCHLOR-1016	12674-11-2	245 ug/kg	<245	
AROCHLOR-1221	1104-28-2	245 ug/kg	<245	
AROCHLOR-1232	11141-16-5	245 ug/kg	<245	
AROCHLOR-1242	53469-21-9	245 ug/kg	<245	
AROCHLOR-1248	12672-29-6	245 ug/kg	<245	
AROCHLOR-1254	11097-69-1	245 ug/kg	<245	
AROCHLOR-1260	11096-82-5	245 ug/kg	105,027	

MDL = Minimum Detection Limit. Calculated on a dry weight basis

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (S-17)
Date received: 3/22/10	Laboratory ID: 1193520
Date analyzed: See Below	Matrix: Soil

Priority Pollutant Metals

PARAMETER	MDL mg/kg	Date Analyzed	RESULTS mg/kg	FLAG
ALUMINUM, Al	1.68	03/25/2010	7,241	4.F
ANTIMONY, Sb	1.68	03/25/2010	<1.68	
ARSENIC, As	1.68	03/25/2010	12	
BARIUM, Ba	3.40	03/25/2010	69.5	
BERYLLIUM, Be	1.68	03/25/2010	<1.68	
CADMIUM, Cd	1.02	03/25/2010	2.31	
CALCIUM, Ca	1.68	03/25/2010	47,410	4.F
CHROMIUM, Cr	1.68	03/25/2010	20	4.H
COBALT, Co	1.68	03/25/2010	6.95	
COPPER, Cu	1.68	03/25/2010	222	4.H
IRON, Fe	1.68	03/25/2010	15,814	4.F
LEAD, Pb	1.68	03/25/2010	114	4.F
MAGNESIUM, Mg	1.68	03/25/2010	17,412	4.F
MANGANESE, Mn	1.68	03/25/2010	290	4.F
MERCURY, Hg•	0.02	03/23/2010	0.135	
NICKEL, Ni	1.68	03/25/2010	19.8	4.H
POTASSIUM, K	1.68	03/25/2010	2,377	4.F
SELENIUM, Se	1.68	03/25/2010	<1.68	
SILVER, Ag	1.68	03/25/2010	<1.68	4.H
SODIUM, Na	1.68	03/25/2010	173	4.F
THALIUM, Tl	1.68	03/25/2010	3.04	
VANADIUM, V	1.68	03/25/2010	35.5	
ZINC, Zn	1.68	03/25/2010	414	4.F

MDL = Minimum Detection Limit. Calculated on a dry weight basis
Performed by SW-846 Method 6010
•Method: EPA 7471A

Michael Veraldi-Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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LONG ISLAND ANALYTICAL LABORATORIES, INC.
DATA REPORTING FLAGS

For reporting results, the following "Flags" are used:

1.A: Time not supplied by client, may have exceeded holding time
1.B: Holding time exceeded, results cannot be used for regulatory purposes
1.C: Holding time exceeded, analyze immediate parameter
1.D: Results based on volume supplied by client.

2.A: Sample received in incorrect container
2.B: Parameter not certifiable by NELAC.
2.C: Sample container received with head space
2.D: Cassette received without cap(s)
2.E: Sample not preserved, corrected upon receipt to a temperature of 4°C
2.F: Sample not preserved, corrected upon receipt with HNO_3 to pH <2
2.G: Sample not preserved, corrected upon receipt with HCL to pH <2
2.H: Sample not preserved, corrected upon receipt with H_2SO_4 to pH <2
2.I: Sample not preserved, corrected upon receipt with NaOH to pH >12
2.J: Sample not preserved, corrected upon receipt with $Na_2S_2O_3$
2.K: Sample not preserved, corrected upon receipt with Na2SO3.

3.A: Minimum detection limit raised due to matrix interference
3.B: Minimum detection limit raised due to target compound interference
3.C: Minimum detection limit raised due to non-target compound interference
3.D: Minimum detection limit raised due to insufficient sample volume

4.A: Estimated concentration, exceeds calibration range
4.B: Data reported below the lower limit of quantitation and should be considered to have an increased quantitative uncertainty.
4.C: Target compound found in blank
4.D: QC affected by matrix
4.E: QC does not meet acceptance criteria
4.F: Spike recovery does not meet QC criteria due to high target concentration
4.G: Spike recovery out of range due to matrix interference
4.H: Spike recovery out of range due to matrix inconsistency
4.I: Dilution Water does not meet QC Criteria
4.J: Continuing Calibration Verification (CCV) quality control levels low
4.K: Continuing Calibration Verification (CCV) quality control levels high

5.A: Insufficient sample volume received
5.B: Preliminary results, cannot be used for regulatory purposes.
5.C: Sampling information not supplied and/or sample not taken by qualified technician, therefore verifiability of the report is limited to results only. Report cannot be used for regulatory purposes.
5.D: Unable to verify that the wipe samples submitted conform to ASTM E1792 or specifications issued by the EPA.
5.E: Level found exceeds the maximum contaminant level (MCL) as set by local, state or federal agencies.
5.F: Estimated value, result is less than the sample quantitation limit but greater than zero
5.G: Required detection limit set by ELAP cannot be achieved

6.A: Subcontractor ELAP #11398
6.B: Subcontractor ELAP #10320
6.C: Subcontractor NVLAP #102047.0
6.D: Subcontractor AIHA #103005
6.E: Subcontractor ELAP #11685
6.F: Subcontractor ELAP #10248
6.G: Subcontractor ELAP #10155
6.H: Subcontractor ELAP #10750
6.I: Subcontractor ELAP #11777
6.J: Subcontractor ELAP #10145
6.K: Subcontractor ELAP #11838
6.L Subcontractor ELAP #11018
6.M Subcontractor ELAP #10108

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NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

1 of 12 pages

LIAL #1193518

March 26, 2010

Soil Mechanics
Bob Cardinale
3770 Merrick Road
Seaford, New York 11783

[redacted]

Dear Mr. Cardinale

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on March 22, 2010. Long Island Analytical Laboratories analyzed the samples on March 25, 2010 for the following:

CLIENT ID	ANALYSIS
AQ-1	EPA 8260 including Tert-Butyl Alcohol, EPA 8270BN, Total Filtered and Non-Filtered Lead
AQ-2	EPA 8260 including Tert-Butyl Alcohol, EPA 8270BN, Total Filtered and Non-Filtered Lead

Samples received at 2.4°C.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted with the appropriate flag. Report shall not be reproduced except in full, without the written approval of the laboratory. Results relate only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (AQ-1)
Date received: 3/22/10	Laboratory ID: 1193518
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	5	<5	
1,1,1-TRICHLOROETHANE	71-55-6	5	<5	
1,1,2,2-TETRACHLOROETHANE	79-34-5	5	<5	
1,1,2-TRICHLOROETHANE	79-00-5	5	<5	
1,1-DICHLOROETHANE	75-34-3	5	<5	
1,1-DICHLOROETHENE	75-35-4	5	<5	
1,1-DICHLOROPROPENE	563-58-6	5	<5	
1,2,3-TRICHLOROBENZENE	87-61-6	5	<5	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	5	<5	
1,2,4-TRICHLOROBENZENE	120-82-1	5	<5	
1,2,4-TRIMETHYLBENZENE	95-63-6	5	<5	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5	<5	
1,2-DIBROMOETHANE	106-93-4	5	<5	
1,2-DICHLOROBENZENE	95-50-1	5	<5	
1,2-DICHLOROETHANE	107-06-2	5	<5	
1,2-DICHLOROPROPANE	78-87-5	5	<5	
1,3,5-TRIMETHYLBENZENE	108-67-8	5	<5	
1,3-DICHLOROBENZENE	541-73-1	5	<5	
1,3-DICHLOROPROPANE	142-28-9	5	<5	
1,4-DICHLOROBENZENE	106-46-7	5	<5	
2,2-DICHLOROPROPANE	594-20-7	5	<5	
2-BUTANONE (MEK)	78-93-3	10	<10	
2-CHLOROETHYL VINYL ETHER	110-75-8	5	<5	
2-CHLOROTOLUENE	95-49-8	5	<5	
2-HEXANONE	591-78-6	5	<5	
4-CHLOROTOLUENE	106-43-4	5	<5	
ACETONE	67-64-1	50	<50	
BENZENE	71-43-2	0.7	<0.7	
BROMOBENZENE	108-86-1	5	<5	
BROMOCHLOROMETHANE	74-97-5	5	<5	
BROMODICHLOROMETHANE	75-27-4	5	<5	
BROMOFORM	75-25-2	5	<5	
BROMOMETHANE	74-83-9	5	<5	
CARBON DISULFIDE	75-15-0	5	<5	
CARBON TETRACHLORIDE	56-23-5	5	<5	
CHLOROBENZENE	108-90-7	5	<5	

MDL = Minimum Detection Limit
Method: SW846, EPA 624

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Date received: 3/22/10	Laboratory ID: 1193518
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
CHLOROETHANE	75-00-3	5	<5	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	5	<5	
CHLOROFORM	67-66-3	5	<5	
CHLOROMETHANE	74-87-3	5	<5	
cis[Z]-1,2DICHLOROETHENE	156-59-2	5	<5	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	5	<5	
DIBROMOCHLOROMETHANE	124-48-1	5	<5	
DIBROMOMETHANE	74-95-3	5	<5	
DICHLORODIFLUOROMETHANE	75-71-8	5	<5	
ETHYLBENZENE	100-41-4	5	<5	
HEXACHLOROBUTADIENE	87-68-3	5	<5	
ISOPROPYLBENZENE	98-82-8	5	<5	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	5	<5	
METHYLENE CHLORIDE	75-09-2	5	<5	
MTBE	1634-04-4	5	<5	
NAPHTHALENE	91-20-3	5	<5	
n-BUTYLBENZENE	104-51-8	5	<5	
n-PROPYLBENZENE	103-65-1	5	<5	
o-XYLENE	95-47-6	5	<5	
p&m-XYLENE	1330-20-7	10	<10	
p-ISOPROPYLTOLUENE	99-87-6	5	<5	
sec-BUTYLBENZENE	135-98-8	5	<5	
STYRENE	100-42-5	5	<5	
tert-BUTYLBENZENE	98-06-6	5	<5	
TETRACHLOROETHYLENE	127-18-4	5	<5	
TOLUENE	108-88-3	5	<5	
trans[E]-1,2-DICHLOROETHENE	156-60-5	5	<5	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	5	<5	
TRICHLOROETHYLENE	79-01-6	5	<5	
TRICHLOROMONOFLUOROMETHANE	75-69-4	5	<5	
VINYL ACETATE	108-05-4	5	<5	
TERTIARY BUTYL ALCOHOL	75.65-0	10	<10	

MDL = Minimum Detection Limit
Method: SW846, EPA 624

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (AQ-1)
Date received: 3/22/10	Laboratory ID: 1193518
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

SEMI-VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	5	<5	4,B
1,3-DICHLOROBENZENE	541-73-1	5	<5	4,B
1,4-DICHLOROBENZENE	106-46-7	5	<5	4,B
1,2-DICHLOROBENZENE	95-50-1	5	<5	4,B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	5	<5	4,B
HEXACHLOROETHANE	67-72-1	5	<5	4,B
n-NITROSODI-n-PROPYLAMINE	621-64-7	5	<5	4,B
NITROBENZENE	98-95-3	5	<5	4,B
ISOPHORONE	78-59-1	5	<5	4,B
bis(2-CHLOROETHOXY)METHANE	111-91-1	5	<5	4,B
1,2,4-TRICHLOROBENZENE	120-82-1	5	<5	4,B
NAPHTHALENE	91-20-3	5	<5	4,B
HEXACHLOROBUTADIENE	87-68-3	5	<5	4,K 4,B
HEXACHLOROCYCLOPENTADIENE	77-47-4	5	<5	4,B
2-CHLORONAPHTHALENE	91-58-7	5	<5	4,B
ACENAPHTHYLENE	208-96-8	5	<5	4,B
DIMETHYLPHTHALATE	131-11-3	5	<5	4,B
2,6-DINITROTOLUENE	606-20-2	5	<5	4,B
ACENAPHTHENE	83-32-9	5	<5	4,B
2,4-DINITROTOLUENE	121-14-2	5	<5	4,B
FLUORENE	86-73-7	5	<5	4,B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	5	<5	4,B
DIETHYLPHTHALATE	84-66-2	5	<5	4,B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	5	<5	4,B
HEXACHLOROBENZENE	118-74-1	5	<5	4,B
PHENANTHRENE	85-01-8	5	<5	4,B
ANTHRACENE	120-12-7	5	<5	4,B
DI-n-BUTYLPHTHALATE	84-74-2	5	<5	4,B
FLUORANTHENE	206-44-0	5	<5	4,B
PYRENE	129-00-0	5	<5	4,B
BUTYLBENZYLPHTHALATE	85-68-7	5	<5	4,B
CHRYSENE	218-01-9	5	<5	4,B
BENZO-a-ANTHRACENE	56-55-3	5	<5	4,B
3,3-DICHLOROBENZIDINE	91-94-1	5	<5	4,B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	5	11.8	
DI-n-OCTYLPHTHALATE	117-84-0	5	<5	4,B

MDL = Minimum Detection Limit
Method: SW846, EPA 625

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (AQ-1)
Date received: 3/22/10	Laboratory ID: 1193518
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

SEMI-VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	5	<5	4,B
BENZO-k-FLUOROANTHENE	207-08-9	5	<5	4,B
BENZO-a-PYRENE	50-32-8	5	<5	4,B
INDENO(1,2,3-c,d)PYRENE	193-39-5	5	<5	4,B
DIBENZO-a,h-ANTHRACENE	53-70-3	5	<5	4,B
BENZO-g,h,i-PERYLENE	191-24-2	5	<5	4,B

MDL = Minimum Detection Limit
Method: SW846, EPA 625

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (AQ-2)
Date received: 3/22/10	Laboratory ID: 1193519
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
1,1,1,2-TETRACHLOROETHANE	630-20-6	5	<5	
1,1,1-TRICHLOROETHANE	71-55-6	5	<5	
1,1,2,2-TETRACHLOROETHANE	79-34-5	5	<5	
1,1,2-TRICHLOROETHANE	79-00-5	5	<5	
1,1-DICHLOROETHANE	75-34-3	5	<5	
1,1-DICHLOROETHENE	75-35-4	5	<5	
1,1-DICHLOROPROPENE	563-58-6	5	<5	
1,2,3-TRICHLOROBENZENE	87-61-6	5	<5	2.B
1,2,3-TRICHLOROPROPANE	96-18-4	5	<5	
1,2,4-TRICHLOROBENZENE	120-82-1	5	<5	
1,2,4-TRIMETHYLBENZENE	95-63-6	5	<5	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5	<5	
1,2-DIBROMOETHANE	106-93-4	5	<5	
1,2-DICHLOROBENZENE	95-50-1	5	<5	
1,2-DICHLOROETHANE	107-06-2	5	<5	
1,2-DICHLOROPROPANE	78-87-5	5	<5	
1,3,5-TRIMETHYLBENZENE	108-67-8	5	<5	
1,3-DICHLOROBENZENE	541-73-1	5	<5	
1,3-DICHLOROPROPANE	142-28-9	5	<5	
1,4-DICHLOROBENZENE	106-46-7	5	<5	
2,2-DICHLOROPROPANE	594-20-7	5	<5	
2-BUTANONE (MEK)	78-93-3	10	<10	
2-CHLOROETHYL VINYL ETHER	110-75-8	5	<5	
2-CHLOROTOLUENE	95-49-8	5	<5	
2-HEXANONE	591-78-6	5	<5	
4-CHLOROTOLUENE	106-43-4	5	<5	
ACETONE	67-64-1	50	<50	
BENZENE	71-43-2	0.7	<0.7	
BROMOBENZENE	108-86-1	5	<5	
BROMOCHLOROMETHANE	74-97-5	5	<5	
BROMODICHLOROMETHANE	75-27-4	5	<5	
BROMOFORM	75-25-2	5	<5	
BROMOMETHANE	74-83-9	5	<5	
CARBON DISULFIDE	75-15-0	5	<5	
CARBON TETRACHLORIDE	56-23-5	5	<5	
CHLOROBENZENE	108-90-7	5	<5	

MDL = Minimum Detection Limit
Method: SW846, EPA 624

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (AQ-2)
Date received: 3/22/10	Laboratory ID: 1193519
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
CHLOROETHANE	75-00-3	5	<5	
CHLOROETHENE (VINYL CHLORIDE)	75-01-4	5	<5	
CHLOROFORM	67-66-3	5	<5	
CHLOROMETHANE	74-87-3	5	<5	
cis[Z]-1,2DICHLOROETHENE	156-59-2	5	<5	
cis[Z]-1,3-DICHLOROPROPENE	10061-01-5	5	<5	
DIBROMOCHLOROMETHANE	124-48-1	5	<5	
DIBROMOMETHANE	74-95-3	5	<5	
DICHLORODIFLUOROMETHANE	75-71-8	5	<5	
ETHYLBENZENE	100-41-4	5	<5	
HEXACHLOROBUTADIENE	87-68-3	5	<5	
ISOPROPYLBENZENE	98-82-8	5	<5	
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	5	<5	
METHYLENE CHLORIDE	75-09-2	5	<5	
MTBE	1634-04-4	5	<5	
NAPHTHALENE	91-20-3	5	<5	
n-BUTYLBENZENE	104-51-8	5	<5	
n-PROPYLBENZENE	103-65-1	5	<5	
o-XYLENE	95-47-6	5	<5	
p&m-XYLENE	1330-20-7	10	<10	
p-ISOPROPYLTOLUENE	99-87-6	5	<5	
sec-BUTYLBENZENE	135-98-8	5	<5	
STYRENE	100-42-5	5	<5	
tert-BUTYLBENZENE	98-06-6	5	<5	
TETRACHLOROETHYLENE	127-18-4	5	<5	
TOLUENE	108-88-3	5	<5	
trans[E]-1,2-DICHLOROETHENE	156-60-5	5	<5	
trans[E]-1,3-DICHLOROPROPENE	10061-02-6	5	<5	
TRICHLOROETHYLENE	79-01-6	5	<5	
TRICHLOROMONOFLUOROMETHANE	75-69-4	5	<5	
VINYL ACETATE	108-05-4	5	<5	
TERTIARY BUTYL ALCOHOL	75.65-0	10	<10	

MDL = Minimum Detection Limit
Method: SW846, EPA 624

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (AQ-2)
Date received: 3/22/10	Laboratory ID: 1193519
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

SEMI-VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
bis(2-CHLOROETHYL)ETHER	111-44-4	10	<10	3.A 4.B
1,3-DICHLOROBENZENE	541-73-1	10	<10	3.A 4.B
1,4-DICHLOROBENZENE	106-46-7	10	<10	3.A 4.B
1,2-DICHLOROBENZENE	95-50-1	10	<10	3.A 4.B
bis(2-CHLOROISOPROPYL)ETHER	108-60-1	10	<10	3.A 4.B
HEXACHLOROETHANE	67-72-1	10	<10	3.A 4.B
n-NITROSODi-n-PROPYLAMINE	621-64-7	10	<10	3.A 4.B
NITROBENZENE	98-95-3	10	<10	3.A 4.B
ISOPHORONE	78-59-1	10	<10	3.A 4.B
bis(2-CHLOROETHOXY)METHANE	111-91-1	10	<10	3.A 4.B
1,2,4-TRICHLOROBENZENE	120-82-1	10	<10	3.A 4.B
NAPHTHALENE	91-20-3	10	<10	3.A 4.B
HEXACHLOROBUTADIENE	87-68-3	10	<10	3.A4.K 4.B
HEXACHLOROCYCLOPENTADIENE	77-47-4	10	<10	3.A 4.B
2-CHLORONAPHTHALENE	91-58-7	10	<10	3.A 4.B
ACENAPHTHYLENE	208-96-8	10	<10	3.A 4.B
DIMETHYLPHTHALATE	131-11-3	10	<10	3.A 4.B
2,6-DINITROTOLUENE	606-20-2	10	<10	3.A 4.B
ACENAPHTHENE	83-32-9	10	<10	3.A 4.B
2,4-DINITROTOLUENE	121-14-2	10	<10	3.A 4.B
FLUORENE	86-73-7	10	<10	3.A 4.B
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	10	<10	3.A 4.B
DIETHYLPHTHALATE	84-66-2	10	<10	3.A 4.B
4-BROMOPHENYL-PHENYL ETHER	101-55-3	10	<10	3.A 4.B
HEXACHLOROBENZENE	118-74-1	10	<10	3.A 4.B
PHENANTHRENE	85-01-8	10	<10	3.A 4.B
ANTHRACENE	120-12-7	10	<10	3.A 4.B
DI-n-BUTYLPHTHALATE	84-74-2	10	<10	3.A 4.B
FLUORANTHENE	206-44-0	10	<10	3.A 4.B
PYRENE	129-00-0	10	<10	3.A 4.B
BUTYLBENZYLPHTHALATE	85-68-7	10	<10	3.A 4.B
CHRYSENE	218-01-9	10	<10	3.A 4.B
BENZO-a-ANTHRACENE	56-55-3	10	<10	3.A 4.B
3,3-DICHLOROBENZIDINE	91-94-1	10	<10	3.A 4.B
bis(2-ETHYLHEXYL)PHTHALATE	117-81-7	10	<10	3.A 4.B
DI-n-OCTYLPHTHALATE	117-84-0	10	<10	3.A 4.B

MDL = Minimum Detection Limit
Method: SW846, EPA 625

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights (AQ-2)
Date received: 3/22/10	Laboratory ID: 1193519
Date extracted: 3/22/10	Matrix: Liquid
Date analyzed: 3/22/10	ELAP #: 11693

SEMI-VOLATILE ANALYSIS

PARAMETER	CAS No.	MDL ug/L	RESULTS ug/L	FLAG
BENZO-b-FLUOROANTHENE	205-99-2	10	<10	3.A 4.B
BENZO-k-FLUOROANTHENE	207-08-9	10	<10	3.A 4.B
BENZO-a-PYRENE	50-32-8	10	<10	3.A 4.B
INDENO(1,2,3-c,d)PYRENE	193-39-5	10	<10	3.A 4.B
DIBENZO-a,h-ANTHRACENE	53-70-3	10	<10	3.A 4.B
BENZO-g,h,i-PERYLENE	191-24-2	10	<10	3.A 4.B

MDL = Minimum Detection Limit
Method: SW846, EPA 625

Michael Veraldi

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights
Date received: 3/22/10	Laboratory ID: 1193518-1193519
Date extracted: 3/25/10	Matrix: Liquid
Date analyzed: 3/25/10	ELAP #: 11693

TOTAL LEAD ANALYSIS
FILTERED

Lab ID	Client ID	MRL	Results mg/L	FLAG
1193518	AQ-1	0.05 mg/L	<0.05	
1193519	AQ-2	0.05 mg/L	<0.05	

MRL = Minimum Reporting Limit
EPA Method 200.7 Rev. 4.4

Michael Veraldi-Laboratory Director

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Client: Soil Mechanics	Client ID: 09-089, Yorktown Heights
Date received: 3/22/10	Laboratory ID: 1193518-1193519
Date extracted: 3/25/10	Matrix: Liquid
Date analyzed: 3/25/10	ELAP #: 11693

TOTAL LEAD ANALYSIS
NON-FILTERED

Lab ID	Client ID	MRL	Results mg/L	FLAG
1193518	AQ-1	0.05 mg/L	<0.05	
1193519	AQ-2	0.05 mg/L	0.08	

MRL = Minimum Reporting Limit
EPA Method 200.7 Rev. 4.4

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DATA REPORTING FLAGS

For reporting results, the following "Flags" are used:

1.A: Time not supplied by client, may have exceeded holding time
1.B: Holding time exceeded, results cannot be used for regulatory purposes
1.C: Holding time exceeded, analyze immediate parameter
1.D: Results based on volume supplied by client.

2.A: Sample received in incorrect container
2.B: Parameter not certifiable by NELAC.
2.C: Sample container received with head space
2.D: Cassette received without cap(s)
2.E: Sample not preserved, corrected upon receipt to a temperature of 4°C
2.F: Sample not preserved, corrected upon receipt with HNO_3 to pH <2
2.G: Sample not preserved, corrected upon receipt with HCL to pH <2
2.H: Sample not preserved, corrected upon receipt with H_2SO_4 to pH <2
2.I: Sample not preserved, corrected upon receipt with NaOH to pH >12
2.J: Sample not preserved, corrected upon receipt with $Na_2S_2O_3$
2.K: Sample not preserved, corrected upon receipt with Na2SO3.

3.A: Minimum detection limit raised due to matrix interference
3.B: Minimum detection limit raised due to target compound interference
3.C: Minimum detection limit raised due to non-target compound interference
3.D: Minimum detection limit raised due to insufficient sample volume

4.A: Estimated concentration, exceeds calibration range
4.B: Data reported below the lower limit of quantitation and should be considered to have an increased quantitative uncertainty.
4.C: Target compound found in blank
4.D: QC affected by matrix
4.E: QC does not meet acceptance criteria
4.F: Spike recovery does not meet QC criteria due to high target concentration
4.G: Spike recovery out of range due to matrix interference
4.H: Spike recovery out of range due to matrix inconsistency
4.I: Dilution Water does not meet QC Criteria
4.J: Continuing Calibration Verification (CCV) quality control levels low
4.K: Continuing Calibration Verification (CCV) quality control levels high

5.A: Insufficient sample volume received
5.B: Preliminary results, cannot be used for regulatory purposes.
5.C: Sampling information not supplied and/or sample not taken by qualified technician, therefore verifiability of the report is limited to results only. Report cannot be used for regulatory purposes.
5.D: Unable to verify that the wipe samples submitted conform to ASTM E1792 or specifications issued by the EPA.
5.E: Level found exceeds the maximum contaminant level (MCL) as set by local, state or federal agencies.
5.F: Estimated value, result is less than the sample quantitation limit but greater than zero
5.G: Required detection limit set by ELAP cannot be achieved

6.A: Subcontractor ELAP #11398
6.B: Subcontractor ELAP #10320
6.C: Subcontractor NVLAP #102047.0
6.D: Subcontractor AIHA #103005
6.E: Subcontractor ELAP #11685
6.F: Subcontractor ELAP #10248
6.G: Subcontractor ELAP #10155
6.H: Subcontractor ELAP #10750
6.I: Subcontractor ELAP #11777
6.J: Subcontractor ELAP #10145
6.K: Subcontractor ELAP #11838
6.L Subcontractor ELAP #11018
6.M Subcontractor ELAP #10108

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SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK • (516) 221-7500

CHAIN OF CUSTODY

24

0049309

LABORATORY: Long Island Analytical
PROJECT NAME: 3200 Crompound RD
PROJECT NO. 09-089
PROJECT LOCATION Yorktown Heights

SAMPLE I.D. NUMBER	DATE	TIME	COMP.	GRAB	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	VOC 8260 w/ MTBE & TBA	SVOC BN 8270	LEAD Filtered & unfiltered	ADDITIONAL REQUIREMENTS
AQ-1	3-22-10	10:00 AM		X	Aq.	Aqueous Sample #1	5	X	X	X	119 35 18
AQ-2	3-22-10	9:00 AM		X	Aq.	Aqueous Sample #2	5	X	X	X	119 35 19

REL. BY (SIG.) | DATE/TIME | AGENT OF: | REC'D BY: | DATE/TIME | AGENT:
PRINT. NAME | PRINT. NAME | PRINT. NAME | DATE/TIME | REMARKS:
REL. BY (SIG.) | DATE/TIME | RECEIVED FOR LAB BY: | DATE/TIME | 3/22/10 | 3:30 PM
PRINT. NAME: David M. Shencwitz | PRINT. NAME: Karen Palmer | 3/22/10 2:42pm | TEMP 24
SAMPLER (SIGNATURE) David M. Shencwitz | SAMPLER NAME PRINT

PHASE II ENVIRONMENTAL SITE ASSESSMENT
3200, 3216, 3220 CROMPOND ROAD
3220 OLD CROMPOND ROAD
SECTION 26.18, BLOCK 1, LOTS 17, 18 & 19
SECTION 26.19, BLOCK 1, LOT 1
TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

Prepared for:
Costco Wholesale
45940 Horseshoe Drive, Suite 150
Sterling, VA 20166
Mr. Erich J. Brann, Jr.
Director of Real Estate Development

Prepared by:

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January 25, 2010

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1. INTRODUCTION

The following Phase II Investigation Report has been prepared by EcolSciences, Inc. on behalf of Costco Wholesale to summarize the results of the geophysical survey and soil and groundwater sampling conducted at 3200 Crompond Road in the Town of Yorktown, Westchester County, New York. Figure 1 depicts the regional site location. The site is designated as Block 1, Lots 1, 17, 18 and 19 according to Town of Yorktown tax records. The site is improved with a closed motel comprising two separate buildings and two small sheds (Lot 19), a two-bay former service station now occupied by a fencing contractor(Lot 1), a plant nursery/lawn mower service center comprised of three buildings (Lot 18), and a residential property with two houses (Lot 17).

The Phase II sampling was conducted from November 4th through November 9th, 2009 to evaluate areas of environmental concern identified in EcolSciences' April 21, 2008 Phase I Environmental Site Assessment report for the former gas station and motel portions of the subject property and a September 2009 Phase I Environmental Site Assessment Report of the entire property prepared by Soil Mechanics Environmental Services (SMES). These Phase I investigations identified the following areas of environmental concern (*Recognized Environmental Conditions*) on the subject property that warranted further investigation:

- **Underground Storage Tanks** – A 5,000-gallon heating oil UST associated with the motel building. It was recommended that this UST be investigated to determine if a release had occurred.

- **Suspected Underground Storage Tanks** – Based on observations made during EcolSciences' Phase I and the SMES Phase I that additional USTs might be present it was recommended that a geophysical survey be conducted to identify if any USTs remained.

- **Groundwater** - Residual soil and groundwater contamination associated with the six USTs removed from the former gasoline/service station site in 1988 remains onsite. Texaco (the responsible party) has requested a No Further Action (NFA) determination from the NYSDEC due to the recent source removal of contaminated soil from the former pump island area and the generally decreasing contaminant trend in the groundwater and the lack of sensitive receptors in the vicinity of the site. Confirmatory soil and groundwater sampling was recommended to confirm current conditions of soil and groundwater beneath the service station, related to the USTs.

- **Aboveground Storage Tanks** – Aboveground storage tanks (ASTs) were observed in the basements of the barn building and the retail building at the plant nursery. Investigation of surficial spills related to these ASTs was recommended in EcolSciences' Phase I.

- **Hydraulic lifts** - The hydraulic lifts in the service station bays remain in the ground. Soil sampling around the lifts was proposed to determine if the cylinders leaked and, if so, to help determine how much soil removal might be warranted.

- **Septic Systems** – The motel and the service station are serviced by onsite septic systems. Given the past operations at the service station, it was recommended that the location of the service station septic system be confirmed using geophysical techniques and sampling conducted adjacent to the tank to determine if any impact to the surrounding soils was apparent.

- **Spills/Staining** – Soil staining on the service station parcel (now used as a a fence painting area) and at the lawn mower repair shop observed during EcolSciences' preliminary reconnaissance for this investigation, sampling of these areas was recommended.

- **Fill Material** – No information is available concerning the environmental quality of the material used during original regrading of the site. In addition, evidence of dumping is apparent to the west and north of the motel buildings. The area of the former pool is currently lawn, suggesting that the pool was filled. As such, it was recommended that sampling be conducted throughout the areas of filling and dumping to characterize the material.

- **Former Agricultural Usage** – Parts of the site were historically used for agricultural purposes. In addition, the plant nursery may have used pesticides during normal operations. Sampling of former farmland and around the plant nursery was recommended to determine if residual pesticides are present.

- **Asbestos Containing Building Materials and Lead Based Paint** – Surveys of asbestos containing materials (ACM) and lead based paint were recommended in the Phase I and completed in conjunction with this Phase II Environmental Investigation. The results of these surveys are provided in a separate report.

In order to investigate the above referenced areas of concern, EcolSciences' implemented a geophysical survey and Phase II soil and groundwater sampling program to evaluate subsurface soil and groundwater conditions at the site. The geophysical survey included screening suspect areas with magnetometer and ground-penetrating radar to determine the presence or absence of USTs. The sampling program consisted of collecting soil and groundwater samples for laboratory analysis from areas of environmental concern identified during the Phase I and during the concurrent geophysical investigation

It also should be noted that sampling of potential asbestos-containing building materials and potential lead based painted structures identified during the Phase I assessment was completed at the

same time as the Phase II Environmental Investigation. The results of this these surveys are provided separately.

2. SITE DESCRIPTION

The following section describes the environmental setting of the subject property. Figure 2 provides a general site layout. An overview of the environmental setting is as follows:

2.1. Regional Location

- **County** –Westchester County, New York
- **Municipality** –Town of Yorktown
- **Block** – Block 1
- **Lots** – Lot 1, 17, 18, & 19
- **Site Area** - ± 19.5 acres
- **Street Address** – 3200, 3216, 3220 Crompond Road and 3220Old Crompond Road
- **Nearest Cross Street** – The property is located directly north of the intersection of Mohansic Avenue and Crompond Road.
- **Property Configuration** – The subject property is irregularly shaped with approximately 308 feet of roadway frontage along Crompond Road. The eastern property boundary is the Taconic Parkway, present at a higher elevation than the site.

2.2. Physical Features

- **Improvements/Operations** – The subject property consists of four lots (1,17,18 &19). Lot 19 contains two buildings formerly used as a motel and two ancillary buildings (sheds). Lot 1 contains a two bay former service station (operated by Texaco) and currently occupied by a fencing contractor. Lot 18 contains a nursery operation and includes a barn building, a mower repair building and a small retail/office building. Lot 17 is a residential property with two single-family homes.
- **Topography** – The subject property is characterized by gently to moderately sloping lands, at elevations ranging from 384 feet above Mean Sea Level in the southeastern corner of the property to 470 feet above MSL in the southwestern corner of the property.
- **Soils** – The subject property is underlain by Charlton, Sutton and Paxton sandy loams derived from the unconsolidated glacial till overlying bedrock. The uniformly

flat area surrounding the motel is mapped by the US Department of Agricultural as urban land due to extensive regrading prior to construction of the motel.

- **Geology** – Bedrock in this part of Westchester County is comprised of unnamed Middle Proterozoic age biotite quartz plagioclase gneiss.

- **Drainage** – Storm water generated onsite either infiltrates directly into the ground in landscaped or undeveloped parts of the property or flows overland to lower topographical areas.

- **Wetlands** – Two areas of wetlands have been identified and delineated on-site. The wetlands are the subject of a separate report.

- **Easements** – There are no easements shown on the municipal tax map for the subject property.

- **Surrounding Land Use** – The subject property is located within an area of Yorktown consisting of vacant and commercial properties. In addition, the Taconic Parkway is located adjacent to the property to the east.

3. METHODOLOGY

The following section presents a summary of the geophysical, sampling and analytical methods for the Phase II investigation conducted by EcolSciences at 3200 Crompond Road in the Town of Yorktown, Westchester County, New York.

3.1. Geophysical Methods

A geophysical survey was performed at the property on November 4 and 5, 2009. The survey was performed by TPI Environmental using magnetometric and ground penetrating radar (GPR) techniques, and was conducted under EcolSciences' supervision. A copy of the survey, which includes details on the specific geophysical methods used at the site, is included in Attachment A.

3.2. Soil Sampling Approach

Soil borings were advanced with either a Geoprobe® drilling rig or hand equipment operated by TPI Environmental, a New York licensed driller. The Geoprobe® consists of pneumatically driven drill rods and sampling equipment. Grab samples were collected with decontaminated sampling scupulas directly from the Geoprobe samplers. In addition, test pits were excavated with a tracked excavator supplied and operated by M&B Trucking of Butler New Jersey. Soil samples collected from the test pits were collected directly from the sidewalls of the excavations or from undisturbed soil brought to the surface in the excavator bucket from specific locations of the open excavation. Soil samples collected from around the property (Figure 3) included the following:

Lot 19

- Three soil samples (PLT-2 through PLT-4) were collected from the partially crushed underground storage tank identified adjacent to the pool area (Pool Tank) on the motel property;
- One soil sample (MBT-1) was collected from a beneath stained area of concrete floor in the basement of the motel building;
- Four soil samples (TP-1 through TP-4) were collected from the fill material used to backfill the motel pool and kiddy pool;
- One soil sample (TP-5) was collected from the area of the reported pond at the northern end of the lawn located in front of the motel;
- Seven soil samples (TP-6 through TP-12) were collected from the area of dumping located west of the motel buildings and parking areas;

- One soil sample (TP-13) was collected from beneath debris dumped within the wooded area west of the motel buildings;

- One soil sample (TP-14) was collected from beneath debris dumped off the north end of the motel building, adjacent to the fenced in air conditioning unit.

- Four soil samples (MT-1 thru MT-4) were collected adjacent to the 5,000-gallon UST located off the northwester corner of the northern motel building.

Lot 1

- One soil sample (TA-1) was collected from the areas former location of underground gasoline storage tanks associated with the former service station;

- Seven soil samples (PI-1, PI-2, PI-4 through PI-7 and PI-9) were collected from the area where pump islands associated with the former service station had been located;

- Four soil samples (SS-1 SS-4) were collected from the area of the existing septic system associated with the former service station;

- Three soil samples (GWO-1 through GWO-3) were collected from the area of the waste oil tank located on the former service station;

- Four soil samples (GHO-1 through GHO-4) were collected from area of the heating oil tank located on the former service station property;

- Three soil samples (HL-1 through HL-3) was collected from the area of the hydraulic lifts located within the former service station building;

- Two soil samples (PA-1 through PA-2) were collected from the paint area associated with the fencing contractor located at the former service station.

Lot 18

- Five soil samples (LM-1 through LW-4 and LM-6) were collected from the lawn mower repair building located on the nursery portion of the property;

- One soil sample (Barn –1) was collected from inside the barn structure located in the nursery portion of the property;

Lot 17

- One soil sample (OCR-1) was collected from adjacent to the heating oil tank located at the residential property.

Lots 1, 18 & 19

- Ten soil samples (Pest-1 thru Pest 10) were collected across the entire site to determine if historic farming or nursery operations have impacted the site due to pesticide residues;

All soil samples from soil borings, hand sampling or test pits were screened with a photoionization detector (PID), and soil staining and odors were noted, if present. Sampling locations and depths were biased to the areas of greatest apparent environmental contamination. The sampling results are discussed in Section 4.

Soil sampling procedures generally followed the procedures outlined in the New York State Department of Environmental Conservation Draft Technical Guidance on Site Investigation and Remediation (DER-10). Appropriate field and trip blanks were collected during the site investigation activities as part of quality control/quality assurance measures.

Immediately after collection, samples from each area of concern were transferred to pre-cleaned sample jars and packed on ice in coolers for preservation.

3.3. Groundwater Sampling Approach

Five temporary well points were installed in the area of the former gasoline station on November 4, 2009 and one additional well point was installed on the same part of the site on November 5, 2009. One well point designated TA-1 was installed in the area of the former gasoline USTs on the site. Four well points were installed in the area of the pump island at the former service station. This is the area previously remediated by Texaco, however based on sampling by Chevron (Texaco merged with Chevron in 2001) it was apparent that soils and groundwater contamination with petroleum products remain. The well point (SS-1) installed on November 5, 2009 was installed immediately down-gradient of the on-site septic system with the expectation of identifying if any contaminants were discharging from the septic system (still in use). Visual inspection of the septic tank interior revealed the presence of petroleum products, presumably waste oil.

Quality Assurance/Quality Control (QA/QC) was maintained throughout EcolSciences' sampling at the site using QA/QC field blanks. A field blank was prepared for the groundwater sampling event at the property by pouring laboratory-supplied analyte-free water through the sampling device (i.e., dedicated bailer) into matching glassware. A volatile organic compound trip blank accompanied the groundwater sampling glassware. The blanks were analyzed for volatile organic compounds and/or waste oil parameters (less metals) as appropriate. A review of the sample handling summary, analytical procedures, and results indicated that the data are reliable.

3.4. Analytical Methods

Soils

The soil samples collected were analyzed for a variety of parameters including volatile organic compounds (VOCs), base neutral compounds (BNs), Target Analyte List (TAL) metals, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), Pesticides, arsenic, and lead

A NYSDEC-certified laboratory (11452), Test America of Edison, New Jersey, was subcontracted by EcolSciences to complete the sample analyses following USEPA methods. The analytical protocols followed by the laboratory for soil are listed below:

VO+10	-	USEPA SW-846 Analytical Method 8260B
BN+15	-	USEPA SW-846 Analytical Method 8270C
TAL Metals	-	USEPA SW-846 Analytical Method 3050B
PCBs/Pesticides	-	USEPA SW-846 Analytical Method 8081A and 8082
PAHs	-	USEPA SW-846 Analytical Method 420.1
Arsenic and Lead	-	USEPA SW-846 Analytical Method 420.1

The soil sampling results were compared to applicable NYSDEC Recommended Soil Cleanup Objectives /NYSDEC TAGM Recommended Soil Cleanup Objectives. In addition, metals results were compared to the NYSDEC Eastern USA Background concentrations since documented background levels are often above TAGM Soil Cleanup Objectives in parts of New York State. The analytical protocols by sampling location are shown on Table 1. The locations of these samples are shown on Figure 3.

Groundwater

The well points were analyzed for VOCs or VOCs and BNs.

The analytical protocol for groundwater were as follows:

VO+10	-	USEPA SW-846 Analytical Method 624
BN+15	-	USEPA SW-846 Analytical Method 625

Groundwater sampling results were compared with NYSDEC TAGM Groundwater Standards Criteria/NYSDEC Groundwater Standards. The analytical protocols by sampling location are shown on Table 1. The locations of these samples are shown on Figure 3.

4. INVESTIGATION RESULTS

The following areas of concern were investigated as part of EcolSciences' Phase II investigation:

Lot 19

- Partially crushed underground storage tank identified in the pool area on the motel property (based on geophysical survey results)
- Spill area located in the basement of the northern motel building
- Fill material used to backfill the motel pool and kiddy pool
- Reported pond at the northern end of the lawn located in front of the motel
- Area of dumping located west of the motel buildings and parking areas
- Debris dumped within the wooded area west of the motel buildings
- Debris dumped off the north end of the motel building, adjacent to the fenced air-conditioning unit
- 5,000-gallon underground storage tank identified adjacent to the northeastern corner of the northern motel building

Lot 17

- Removed gasoline USTs at the former Texaco service station
- Pump island at the former Texaco service station
- Existing active septic system
- Waste oil tank located on the former service station property (based on geophysical survey results)
- Heating oil tank located on the former service station property
- Hydraulic lifts within the service station bays
- Paint area associated with the fencing contractor located at the former service station (observed during initial reconnaissance for this investigation)

Lot 18

- Lawn mower repair building located on the nursery portion of the property
- Barn structure located in the nursery portion of the property

Lot 17

- Heating oil tank located at the residential property

Lots 1, 18 and 19

- Area of historic farming;

The soil and groundwater sampling activities and analytical results are discussed below by area of concern. Table 1 summarizes the sampling protocol employed during this Phase II investigation. Figure 3 illustrates the sampling locations on lots 1, 17, 18 and 19. Tables 2 through

10 summarize the soil and groundwaters sampling results and Figures 4 thru 6 illustrate exceedances identified during sampling. Attachment B presents the soil boring logs.

4.1. Physical Observations of Soils During Sampling

The motel and immediate surrounding area are mapped in the Westchester County soil survey as urban land. Urban land is land that has experienced extensive regrading or modification due to development. During test pit excavation it was apparent that most of the material was brown and medium brown, sandy and clayey silt containing abundant angular cobbles. The size of the boulders was sufficiently large in many cases to prevent advancement of the Geoprobe sampler. The flat lying area around the motel suggests regrading to some extent and the presence of angular cobbles and boulders in a finer grained matrix both suggest that the material directly underlying the site is fill. In several locations, excavation of test pits extended over six feet into the ground. Light brown to tan rocky soils were encountered at depth and may be native soils. Groundwater was encountered during only on the former service station property (Lot 17) at depths of between 4.5 and12 feet below ground surface.

LOT 19

4.2. Pool Area Tank

The geophysical survey identified a suspected underground storage tank in the vicinity of the Motel Pool. It is likely that this tank contained fuel for the pool heater. A small portion of the UST was observed at the ground surface and the tank appeared to be partially crushed. Four samples (Figure 3) were collected from around the tank and analyzed for VOCs and BNs. As provided on Table 2, no exceedances of these groups of compounds were identified in these samples.

4.3. Motel Basement

There was evidence of a fuel oil discharge from the feed/return fuel oil lines in the basement of the long north/south oriented motel building at the end near the 5,000-gallon heating oil tank. A soil sample was collected from the area beneath the discharge and analyzed for VOCs, BNs, PCBs, and TAL Metals. Volatile compounds 1,2,4-Trimethylbenzene was identified at 12 mg/kg and xylenes were identified at 1.4 mg/kg, both slightly above their respective soil cleanup objectives (10 mg/kg & 1.2 mg/kg). All other targeted compounds were below the applicable soil cleanup objectives or below the NYSDEC TAGM Eastern USA Background levels. Table 2 provides a summary of these analytical results and Figure 6 illustrates the locations of these samples and those samples showing exceedances.

4.4. Fill Material in Motel Pool

A swimming pool located in the lawn area of the motel property is filled and covered with grass. Four test pits were excavated in the main pool and the kiddy pool located adjacent to the main pool for the purpose of sampling the material used to backfill the pools. TP-1 through TP-4 were excavated and sampled at a maximum depth of four feet below grade. The main pool continued to retain water due to the likely intact pool walls and bottom and the soils contained in the pool were saturated approximately two feet below grade. Soil samples collected from these test pits were analyzed for VOCs, BNs, Pesticides, PCBs, and TAL Metals. The sampling results identified no VOCs, BNs, Pesticides or PCBs above applicable criteria. The metals analyses identified several metals at concentrations above the applicable TAGM Cleanup Objectives. However, magnesium was the only metal above the documented background levels. Table 3 summarizes the analytical results from these test pit samples and Figure 6 illustrates the locations of these samples and those samples showing exceedances.

4.5. Soils adjacent to "Filled Pond"

A low-lying lawn area near the northern end of the motel was sampled due to the potential that this area had been filled. Test pit TP-5 was excavated adjacent to this low standing area and upon visual inspection, no debris was identified (Figure 3). A soil sample identified as TP-5 was collected from this location and analyzed for VOCs, BNs, Pesticides, PCBs, and TAL metals. All analyses were below the applicable criteria except for selected metals, with magnesium the only metal identified to be above the NY TAGM Eastern USA background. Table 3 summarizes the analytical results from this sampling location.

4.6. Area of Disposal West of the Motel Buildings

An area containing debris located adjacent to and within the wooded area west of the motel buildings was sampled because of the potential for contaminants associated with this debris to have impacted the underlying soils. A series of test pits were excavated and sampled (TP-6 through TP-13) to identify if soils in this area were impacted by these disposal practices. Soil samples from these test pits were sampled for VOCs, BNs, pesticides, PCBs, and TAL metals. No VOCs, BNs, PCBs or pesticides were identified above the applicable criteria. Similar to other test pit samples, selected metals were identified above the criteria with most below the eastern USA background levels. Magnesium was identified above background concentrations in TP-6, TP-7, TP-10, and TP-12 up to a maximum of 15,900 mg/kg. Chromium and nickel were identified above background levels in TP-10. Table 3 summarizes the analytical results from these test pit-sampling locations and Figure 6 illustrates the exceedances from these locations.

4.7. Area North of the Motel Building

Test pit TP-14 was excavated within debris located adjacent to the wooded area north of the Motel Building. The sample collected from the test pit, designated at TP-14 was analyzed for VOCs, BNs, Pesticides, PCBs, and TAL metals. Magnesium at a concentration of 6,000 mg/kg was the only element/compound identified in TP-14 above applicable criteria and the NY TAGM Eastern USA background. Table 3 summarizes the analytical results from sample TP-14 as illustrated on Figure 6.

4.8. Motel 5,000-Gallon Heating Oil Tank.

Six soil borings were advanced around the existing, inactive, 5,000-gallon heating oil UST located off the northwestern corner of the northern motel building. Three of the soil borings successfully reached the depth of the tank invert, allowing the collection of soil samples. Refusal was encountered at three locations (on the northern and eastern sides of the UST) preventing the collection of a soil sample from the invert depth of the tank. Subsequently, an excavator was used to complete a test pit off the northern end of the tank, thereby allowing the collection of a soil sample at the depth of the tank invert. Given the presence of asphalt pavement along the eastern side of the tank, the excavator was not used along this side. The soil samples collected from around the UST (MT-1 through MT-4) were analyzed for VOCs and BNs (Figure 3). No exceedances of any targeted compounds were identified from the samples collected around the UST. Table 4 summarizes the soil sampling analytical results from VOC and BN sampling.

LOT 1

4.9. Gasoline UST Area

Soil Sampling Results

Soil boring TA-1 was completed in the area of the mapped gasoline USTs (Figure 3) formerly present on the service station property. There were no exceedances of VOCs from TA-1 above the New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Objectives (Table 5).

Groundwater Sampling Results

After installation of a temporary well point at location TA-1, the well point was purged and subsequently sampled to identify if groundwater was impacted in the area of the former gasoline USTs. The groundwater sample collected from TA-1 did not contain any exceedances of the NYSDEC groundwater standards as shown on Table 6 and illustrated on Figure 4.

4.10. Former Pump Island

Soil Sampling Results

Soil borings PI-1 through PI-9 were installed in and around the former pump island area on the service station property (Figure 2). Seven soil samples were collected from the pump island area. Samples PI-4 and PI-5 both contained isopropylbenzene (up to 6.7 milligrams per kilogram (mg/kg)) and N-Propylbenzene (up to 25 mg/kg) both of which are above the applicable criteria as provided on Table 5 and illustrated on Figure 5.

Groundwater Sampling Results

Four well points were installed in and around the location of the pump island at the former service station. After purging the well points, groundwater samples were collected from P-1 through P-4. All of the groundwater samples collected around the former pump island contained gasoline related compounds above the applicable groundwater standards (benzene (up to 65 micrograms per liter (ug/L)), ethylbenzene (up to 130 ug/L), toluene (7.2 ug/L) and xylenes (up to 29 ug/L)). In addition, naphthalene and several degradation products of gasoline related compounds were also identified above the applicable criteria. Table 6 summarizes the analytical results from groundwater samples analyzed for VOCs. Figure 4 illustrates the location of groundwater samples collected around the former pump island on the service station property.

4.11. Service Station Septic System

Soil Sampling Results

The active septic system identified on the former service station property was sampled in order to identify if there had been any impact to the surround soils from materials introducted in to the septic system. Four samples (SS-1 through SS-4), collected from around the septic system were analyzed for VOCs and Base Neutral Compounds (BNs) and TAL Metals. Two of the samples were also analyzed for PCBs and pesticides. No VOCs, BNs, PCB's or Pesticides were identified in these soil samples above applicable criteria (Table 7, Figure 5)). Magnesium in SS-3 at 5,340 mg/kg and chromium, magnesium and zinc in SS-4 (53.1 mg/kg, 12,100 mg/kg & 102 mg/kg respectively) were identified above the applicable criteria and above the NY TAGM Eastern USA Background.

Groundwater Sampling Results

A groundwater sample was collected adjacent to and immediately down gradient from the active septic system on the former service station property. This sample, SS-1 was analyzed for VOCs and BNs. One volatile compound, N-Propylbenzene was identified at 6.8 micrograms per liter (ug/L), above the 5-ug/L criterion. The results of this groundwater sampling are included on Table 6 and illustrated on Figure 4.

4.12. Service Station Waste Oil Tank

Three soil borings (GWO-1, GWO-2 & GWO-3) were advanced adjacent to the waste oil tank (AST) located on the former service station property. Soil samples collected from each of the borings were analyzed for VOs, BNs, Pesticides and TAL Metals. One sample, GWO-1 contained N-Propylbenzene at 4.8 mg/kg, above the 3.7 mg/kg criterion. Table 7 summarizes the analytical results and Figure 5 illustrates the location of the exceedance on the service station property.

4.13. Service Station Heating Oil Tank

Three soil borings (GHO-1, GHO-2 & GHO-3) were advanced adjacent to the heating oil tank (AST) on the service station property. Soil samples collected from the three borings were analyzed for VOCs and BNs. No targeted compounds were identified in the samples above the applicable criteria. Table 8 summarizes the analytical results from these soil boring samples.

4.14. Service Station Hydraulic Lifts

Three soil borings were advanced inside the former service station building at the location of the hydraulic lifts. Soil samples collected from this area were sampled for VOCs and BNs. One sample, HL-2 contained N-Propylbenzene at 5.3 mg/kg, above the 3.7 mg/kg criterion. Table 8 summarizes the analytical results from these sampling locations and Figure 5 illustrates where the samples were collected.

4.15. Fence Company Painting Area

Two soil sampling were collected from a painting area used by the fence company that now occupies the former service station property (Figure 3). These samples (PA-1 and PA-2) were analyzed for VOCs. As provided on Table 2, the analytical results from these samples did not identify any VOCs above the applicable cleanup objectives.

LOT 18

4.16. Lawn Mower Repair Building

Lawn mower repair activities are conducted within and adjacent to a small building on the nursery property. Soil samples were collected from areas within and immediately outside the

building and analyzed for VOCs, BNs, Pesticides, PCBs, and TAL Metals. All BN, pesticide and PCB analyses were below the applicable soil cleanup objectives. Two locations contained VOCs above the applicable cleanup objectives. Sampling locations LM-2 and LM-4 both contained gasoline related and degraded gasoline related volatile compounds. Total VOCs for LM-2 were 178.0 mg/kg and for LM-4 were 720.0 mg/kg. All of the soil samples collected from the lawn mower repair facility contained between one and six targeted metals above the soil cleanup objective and the Eastern USA background concentrations. Copper and zinc were most prevalent with cadmium and magnesium less frequent and arsenic and chromium identified at one location and mercury at a separate location. Table 9 provides a summary of all sampling results from the mower repair facility. Figure 6 illustrates the locations of the samples collected and those exhibiting exceedances.

4.17. Barn Building

One soil sample was collected from within the barn building located on the nursery property and analyzed for VOCs, BNs, Pesticides, BN's and TAL Metals. Magnesium and zinc were the only targeted elements/compounds identified in the sample. Table 9 provides a summary of and Figure 6 illustrates the location of the sample.

LOT 17

4.18. Residential Tank

A heating oil tank was identified at the residential property on Crompond Road. Five soil borings were advanced around the perimeter of the tank. Refusal was encountered at four of the five locations ranging from 1 – 3 feet below grade. At one location, the boring was advanced to a depth below the invert of the tank. One sample (OCR-1) as illustrated on Figure 3 was collected from this location and analyzed for VOCs and BNs. Table 2 provides the analytical results for this sample, which contained no exceedances of any VOC or BN compounds.

LOTS 1, 18 & 19

4.19. Agricultural Land Use

Ten soil samples were collected from around the property for evaluation of impact to the site by historic agricultural activities. Samples Pest-1 through Pest-10 were collected from shallow soils (0-6 inches below grade) across the site as illustrated on Figure 4. These samples were analyzed for pesticides, arsenic and lead. No targeted compounds/elements were identified above the applicable soil cleanup objective. Table 10 and Figure 3 provide a summary of the analytical results and a display of the sampling locations across the site respectively.

5. CONCLUSIONS AND RECOMMENDATIONS

Following are the conclusions and recommendations of the Phase II investigation conducted by EcolSciences for the subject property at 3200 Crompond Road in the Town of Yorktown, Westchester County, New York.

Motel Area (Lot 19)

- Underground Storage Tanks – A 5,000-gallon UST and a crushed 2,000-gallon UST were identified on the motel property. Neither showed any evidence of contamination in the surrounding soils. Both tanks should be removed in accordance with NYSDEC regulations with post removal soil sampling to confirm that no contamination is present.

- VOC impacted soils associated with a discharge of oil in the basement of the motel should be removed upon demolition of the building. Although the release likely has impacted a small area, these soils should be excavated and properly disposed of at a licensed disposal facility. Upon removal of these VOC impacted soils confirmatory post remediation soil sampling should be completed to confirm removal of all impacted soils.

- Soil sampling conducted around the motel property has identified metals above the NYSDEC TAGM Recommended Soil Cleanup Objectives. In some cases these exceedances were above the NYSDEC TAGM Eastern USA Background concentrations. Based on observations during test pit excavation activities combined with the soils map describing this as urban land, it is evident that the area of the motel has been significantly reworked prior to the construction of the motel. It is not known if material was previously imported onto the site for this original construction or if on-site native material was extensively reworked. Because the proposed use of the site is a commercial facility (not residential) and soils will be effectively capped by the construction of the building and the surrounding parking lot/driveways, no remedial actions for these soils are recommended at this time. However, during site work and construction of the building precautions should be taken to minimize the amount dust generated by site work to avoid undue exposure to particulate material by on-site workers. Dust suppression activities including but not limited to the application of water during dry periods, should be employed to minimize exposure during site work. While bare soils are exposed and being reworked, a site-wide dust-monitoring program should be implemented to document that the protective measures are successful. Moreover, it should be recognized that if excess soils are generate, the elevated levels of metals, whatever their origin, will preclude their use elsewhere as clean soil. The costs of disposal should be taken into account for construction planning.

Former Texaco Service Station Area (Lot 1)

- When the service station slab is removed, the hydraulic lifts remaining the in bays should be removed. Slight exceedances were only identified at one location, although each of the lifts requires removal. Any petroleum impacted soils surrounding the cylinders should be removed and post-removal soil sampling is recommended to confirm the successful removal of these features.

Chevron has been identified as the responsible party for remedial activities on the former Texaco service station property. Results of this investigation are consistent with those presented in the most recent submittals to NYSDEC by Chevron. In the most recent report, Chevron has proposed no further action for soils. If the results of a planned groundwater sampling in the last quarter of this year continue to show the same low levels of exceedances for gasoline compounds that have been shown historically, Chevron proposes that the site be considered for no further action for groundwater as well. This case shuld be followed to its conclusion to ensure that Chevron is fulfilling its responsibilities with NYSDEC. EcolSciences has the following related recommendations:

-The service station area is to be redeveloped into an entrance/driveway area during redevelopment of the site. Should there be any intrusive activities in this area such as installation of utilities or if the grade is expected to be lowered significantly, monitoring for the presence of volatile organic compounds may be warranted to ensure that a safe working environment is maintained. Furthermore, should any excess petroleum impacted soils (stained, odorous) be generated during work in this area, such material should be stockpiled on plastic, sampled for waste classification parameters, and ultimately transported off-site to a licensed disposal facility. Any petroleum-impacted soils generated should not be used elsewhere on the property during development.

-Should any structures or utilities be constructed in the area of the former service station, an evaluation of the potential for vapor intrusion by volatile organic compounds should be completed, given the fact that gasoline related compounds are present in the shallow groundwater. One option is to conduct a soil vapor survey of any proposed utility area passing through the former service station. A survey at this time would constitute a "worst case" scenario for potential vapor intrusion of volatile organic compounds.

If vapor intrusion into utilities passing through the former service station area are a concern, a passive vapor intrusion barrier or other appropriate engineering control should be installed as part of construction. This strategy would not only prevent the collection of

vapors within these utilities but also prevent the utilities and backfilled trenches acting as conduits for vapor to spread laterally into or beneath on-site structures.

- The active septic system on the service station property should be abandoned in accordance with local government and health department requirements.

Nursery Area (Lot 18)

- Soil sampling conducted within and around the vicinity of the lawn mowor repair building identified VOC impacted soils at two sampling locations, one inside the building and one outside the building. Although the impacted areas are anticipated to be relatively small (estimated as 20 feet by thirty feet), delineation sampling of the VOC impacted soils is recommended in this area to obtain a better idea of the volume of soil and corresponding cost for removal and disposal of the impacted soils.

- Septic systems associated with the buildings on the Nursery property should be abandoned in accordance with local government and health department requirements.

- Two production wells on the nursery property should be abandoned by a New York licensed well driller in accordance with NYSDEC requirements.

Residential Property (Lot 17)

- The underground heating oil tank should be removed in accordance with all NYSDEC and local regulations.

Agricultural Land Use (Lots 1, 18, and 19)

- No pesticides or metals exceedances were identified in any of the samples analyzed. As such, no remediation is warranted.

LIMITATIONS - Phase II Investigation

- This Phase II investigation is a limited sampling program. EcolSciences does not guarantee or warrant the environmental condition of the project site or certify the site as clean even though test results may not show any elevated levels of contamination.

- Locations of boring explorations shown on the maps or figures in this report are approximations only, unless otherwise specified.

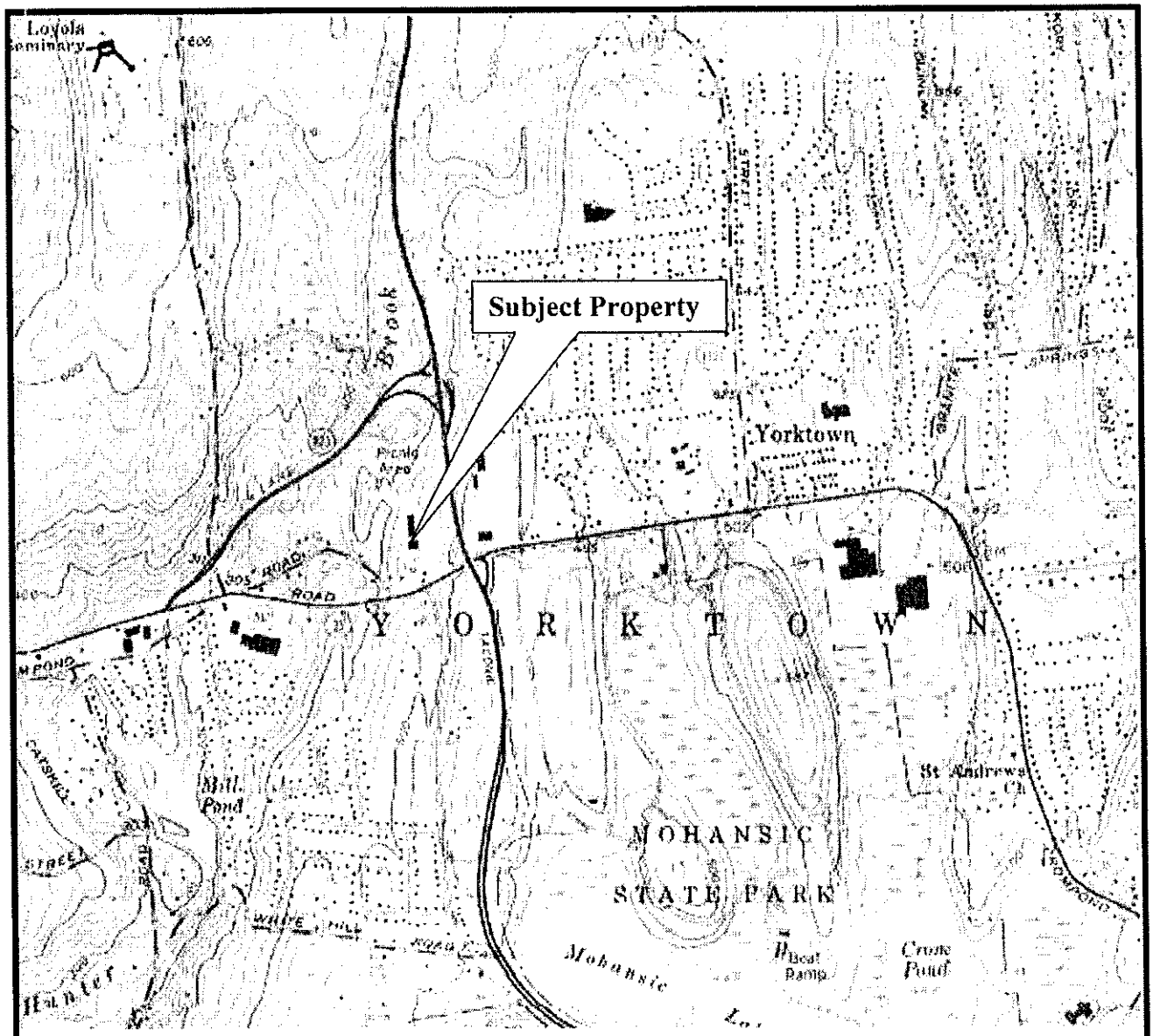
- Field logs were prepared by EcolSciences' staff for borings conducted as part of this Phase II investigation. The field logs contain information and interpretations of the soil conditions observed at the test boring locations.

- The log for a particular test boring reflects only the location of said boring. Different results may be encountered at other locations.

- EcolSciences assumes no responsibility for reporting the findings of soil testing results to any agencies except in instances required by regulatory agencies. It is our understanding that the client will consult his or her attorney in determining the need for reporting to local, state or federal agencies.

- Cost estimates for remediation were prepared based on available data, assumptions and past experience. Cost estimates may vary considerably depending on regulatory requirements, extensiveness of the sampling program effectiveness of the remediation program.

FIGURES



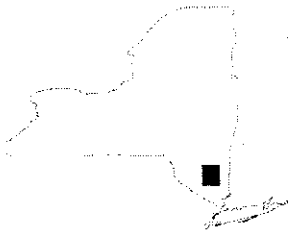
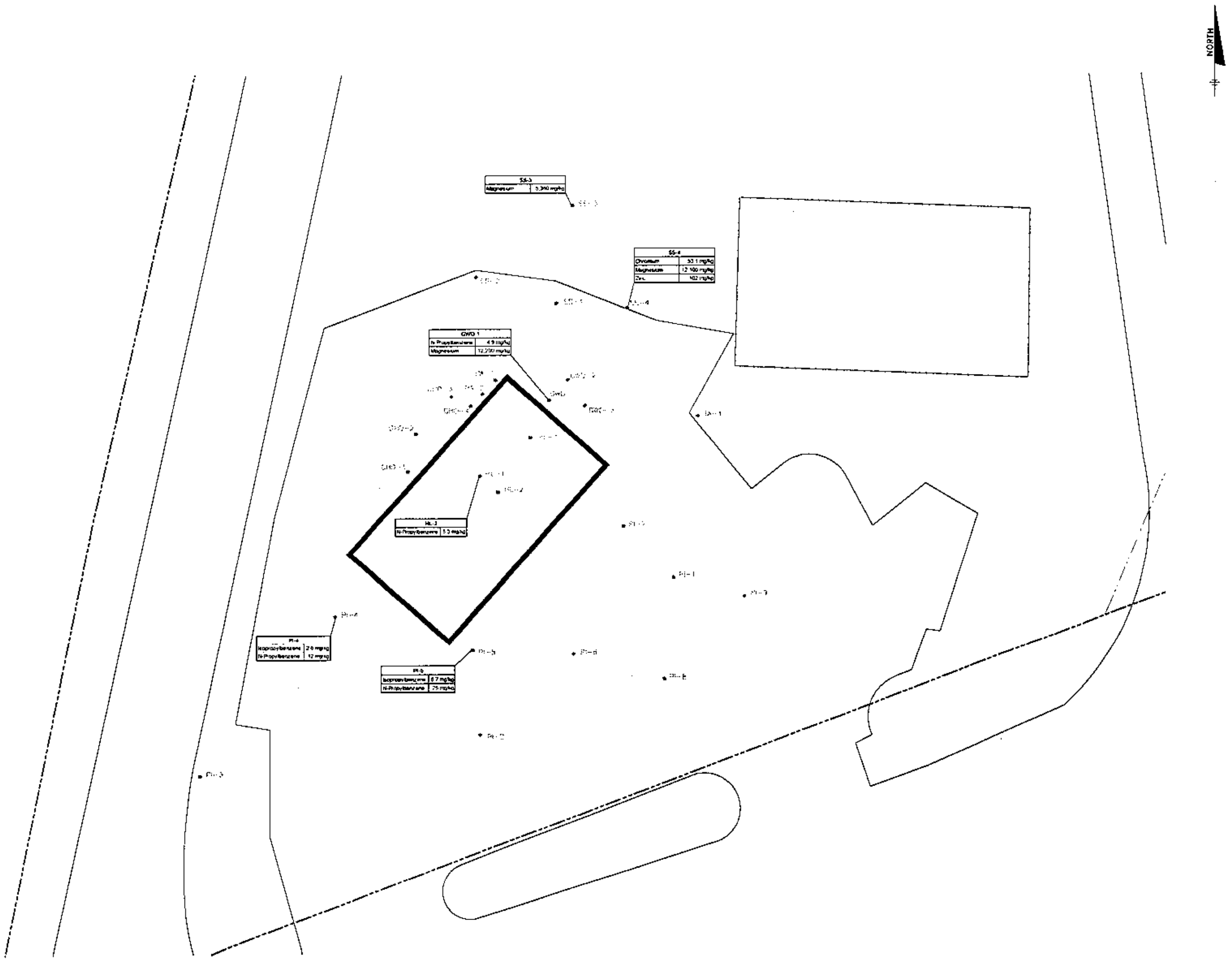
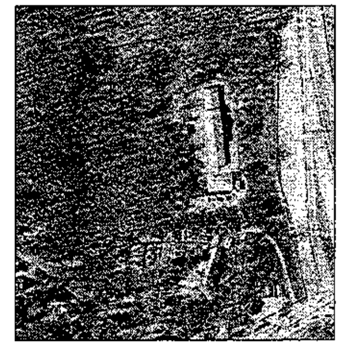


FIGURE 1: REGIONAL SITE LOCATION

3200 Crompond Road
Section 26.18, Block 1, Lots 1 and 19
Town of Yorktown
Westchester County, New York
Source: USGS Mohegan Lake, NY 7.5 minute Quadrangle - 1954

EcolSciences, Inc. Environmental Management & Regulatory Compliance	**Date: April 2008** **Scale: 1'=2,000'**





KEYMAP

SCALE: 1"=200'

LEGEND

- PROPERTY LINE
- EXISTING BUILDING
- WETLANDS LIMITS
- CURB LINE
- FENCE
- SAMPLE LOCATION

	NYSDEC Recommended Soil Cleanup Objective (mg/kg)
VOLATILE COMPOUNDS	
1,2,4-Trimethylbenzene	10.0
1,3,5-Trimethylbenzene	3.3
Benzene	0.06
Ethylbenzene	5.5
Isopropylbenzene	2.3
Naphthalene	13.0
N-Propylbenzene	3.7
Toluene	1.5
Xylenes - total	1.2

	New York TAGM Rec. Soil Cleanup Objectives (mg/kg)	New York TAGM Eastern USA Background (mg/kg)
METALS		
Arsenic	7.5	12
Beryllium	0.16	1.75
Cadmium	1	1
Chromium	10	40
Copper	25	50
Iron	2000	550000
Lead	NA	NA
Magnesium	NA	5000
Mercury	0.1	0.2
Nickel	13	25
Zinc	20	50

0 10 20 30
SCALE: 1"=10'

TITLE:
SERVICE STATION GROUND WATER EXCEEDANCES

3200 CROMPOND ROAD
SECTION 26.18, BLOCK 1, LOTS 1 AND 19
WESTCHESTER COUNTY, NEW YORK

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

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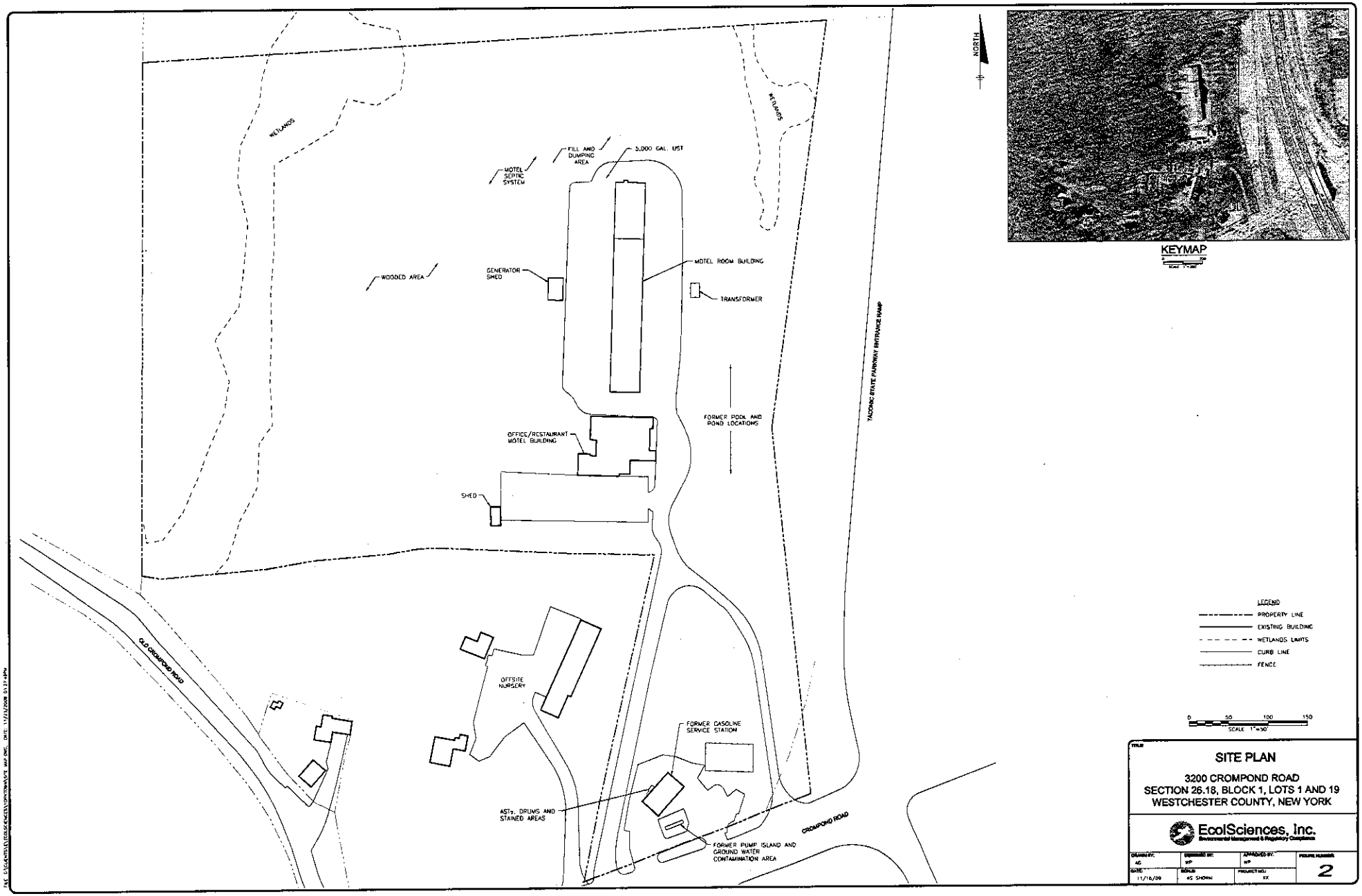
NORTH
WETLANDS
WETLANDS
FILL AND DUMPING AREA
5,000 GAL. UST
MOTEL SEPTIC SYSTEM
WOODED AREA
GENERATOR SHED
MOTEL ROOM BUILDING
TRANSFORMER
FORMER POOL AND POND LOCATIONS
TACONIC STATE PARKWAY ENTRANCE RAMP
OFFICE/RESTAURANT MOTEL BUILDING
SHED
OLD CROMPOND ROAD
OFFSITE NURSERY
FORMER GASOLINE SERVICE STATION
ASTs, DRUMS AND STAINED AREAS
FORMER PUMP ISLAND AND GROUND WATER CONTAMINATION AREA
CROMPOND ROAD
KEYMAP
LEGEND
PROPERTY LINE
EXISTING BUILDING
WETLANDS LIMITS
CURB LINE
FENCE
0 50 100 150
SCALE 1"=30'
SITE PLAN
3200 CROMPOND ROAD
SECTION 26.18, BLOCK 1, LOTS 1 AND 19
WESTCHESTER COUNTY, NEW YORK
EcolSciences, Inc.
Environmental Management & Regulatory Compliance
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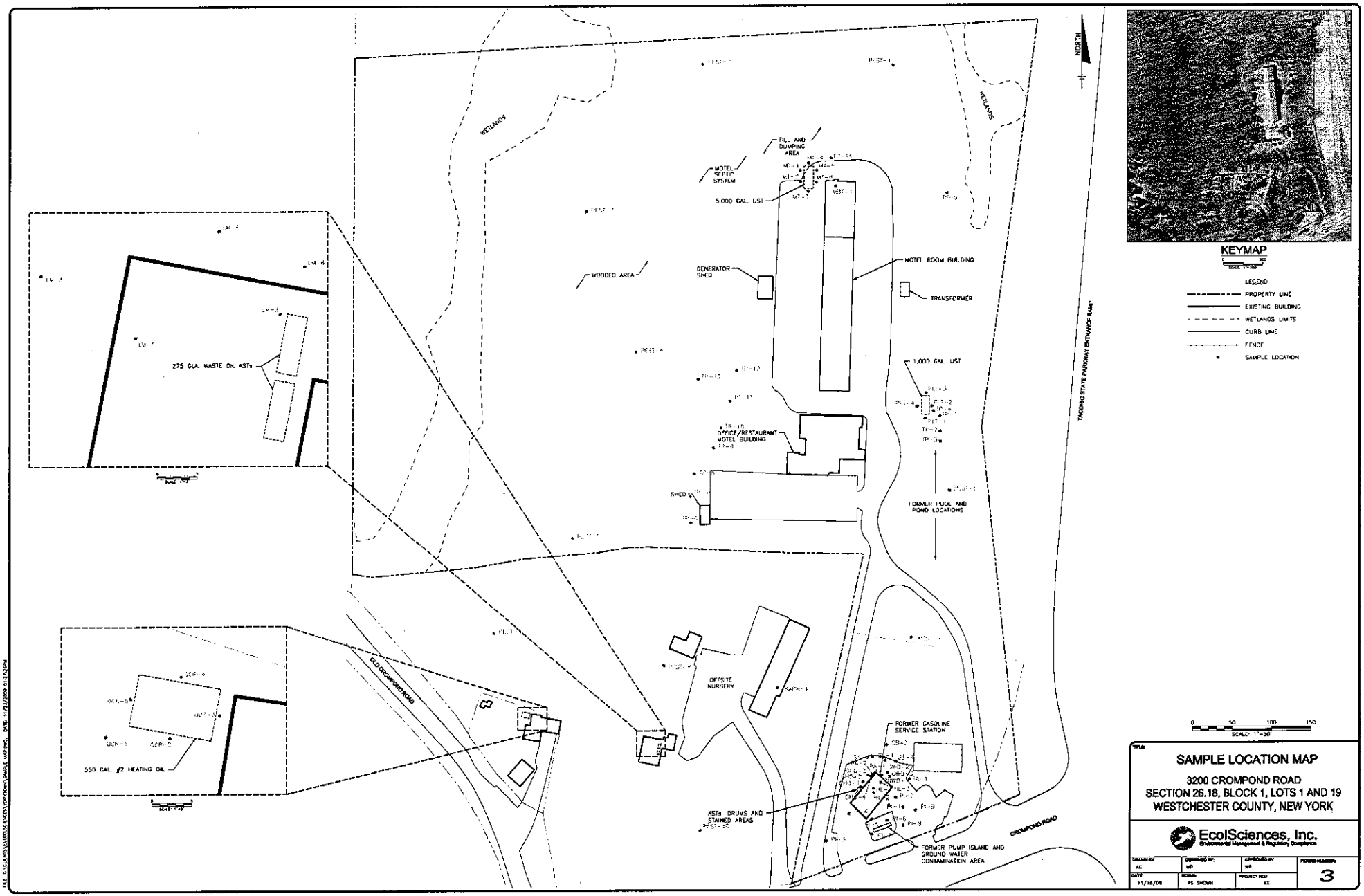

SAMPLE LOCATION MAP

3200 CROMPOND ROAD
SECTION 26.18, BLOCK 1, LOTS 1 AND 19
WESTCHESTER COUNTY, NEW YORK

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

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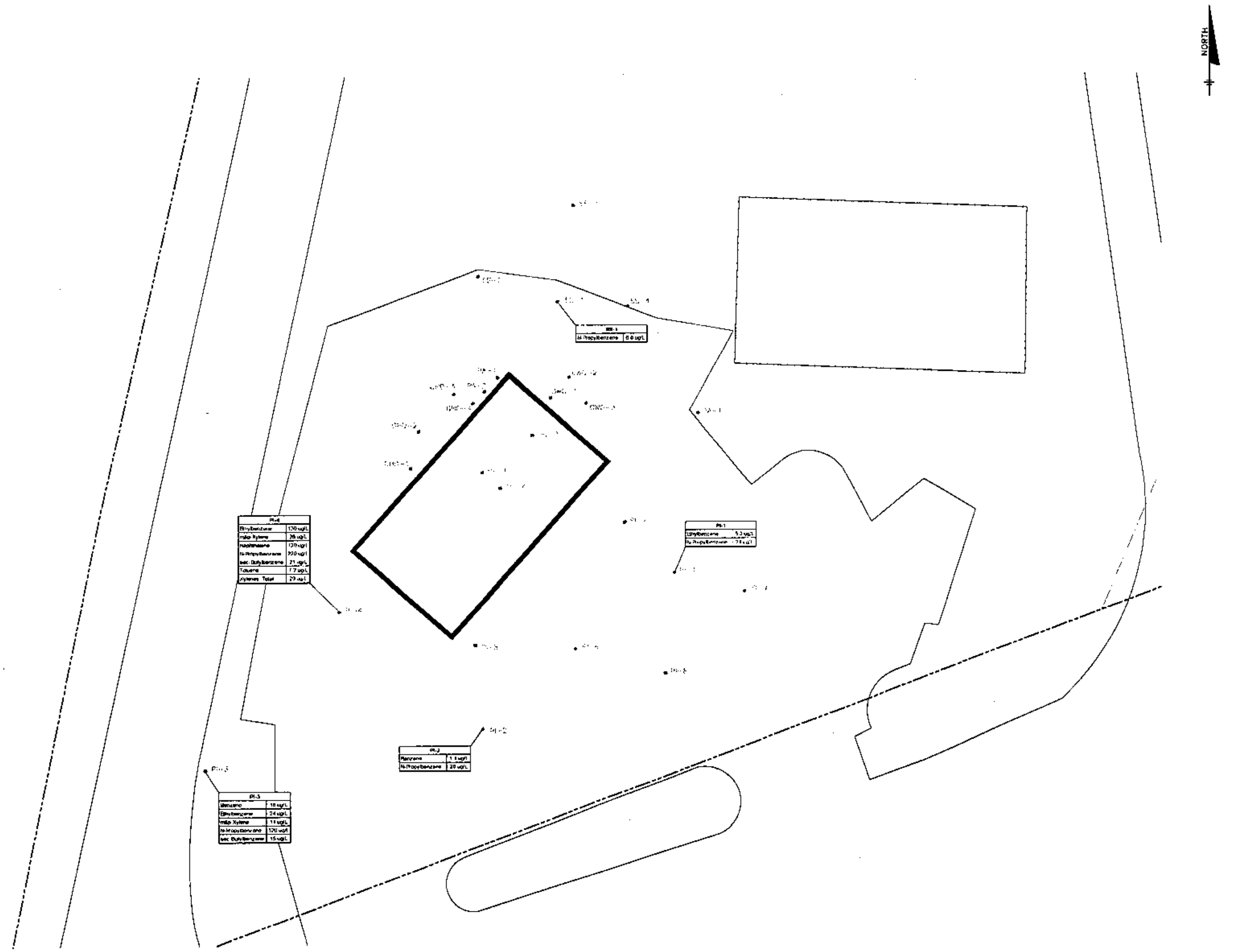

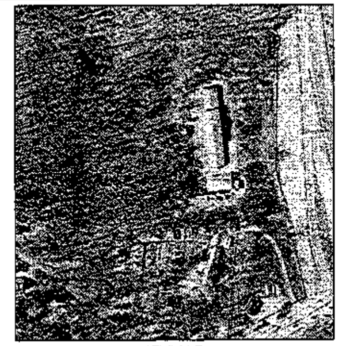

KEYMAP

LEGEND

- PROPERTY LINE
- EXISTING BUILDING
- WETLANDS LIMITS
- CURB LINE
- FENCE
- SAMPLE LOCATION

	New York TAGM Groundwater Standards Criteria (ug/l)	NYSDEC Groundwater Standard ug/L (ug/L)
VOLATILE COMPOUNDS		
Benzene	0.7	0.7
Ethylbenzene	5	5
m&p Xylene	5	5
Naphthalene	10	10
N-Propylbenzene	5	5
sec-Butylbenzene	5	5
Toluene	5	5
Xylenes Total	5	5

0 10 20 30
SCALE: 1" = 10'

TITLE:

SERVICE STATION SOIL EXCEEDANCES

3200 CROMPOND ROAD
SECTION 26.18, BLOCK 1, LOTS 1 AND 19
WESTCHESTER COUNTY, NEW YORK

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

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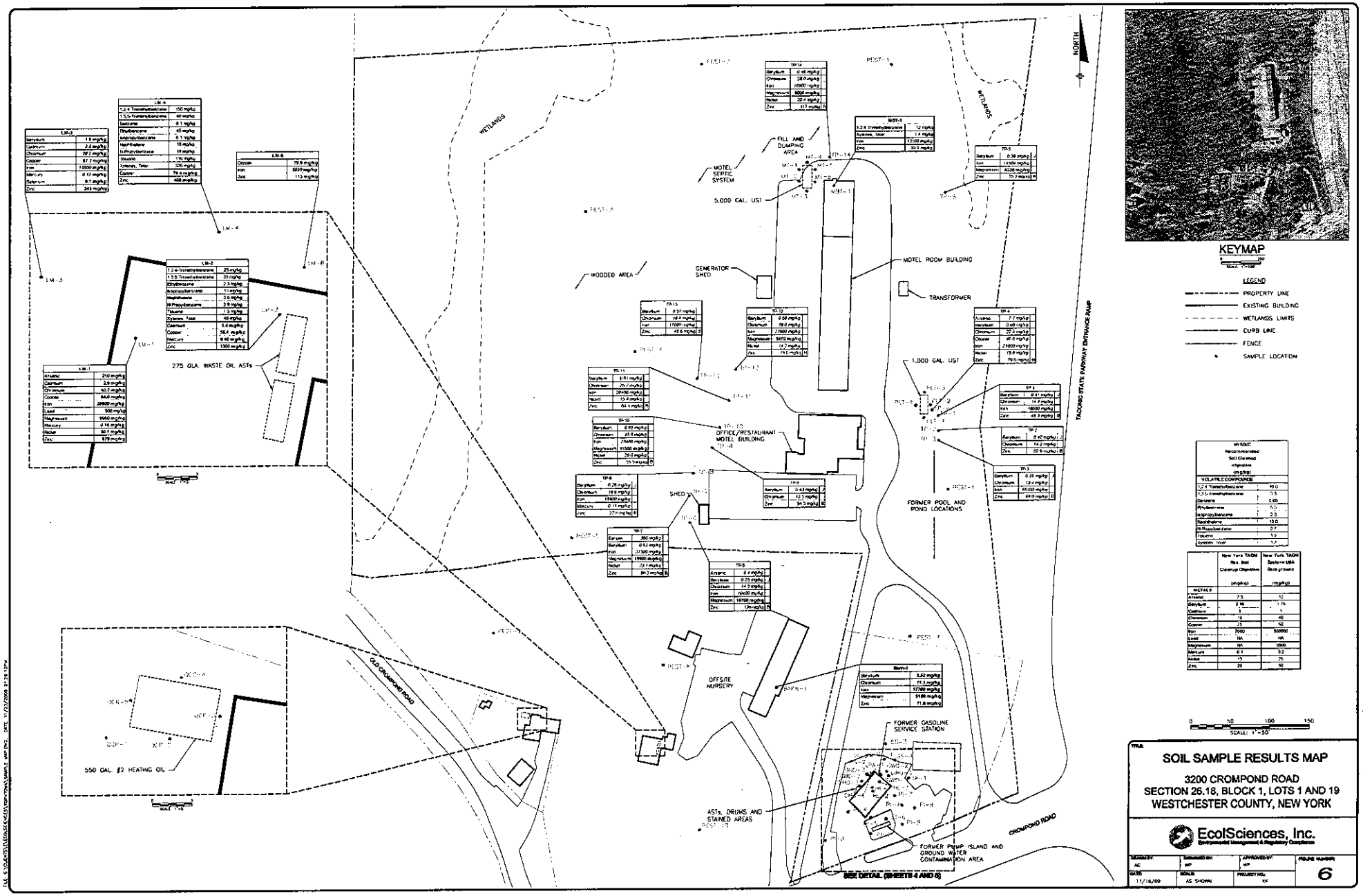

NYSDEC Recommended Soil Cleanup Objectives (mg/kg)	
VOLATILE COMPOUNDS	
1,2,4 Trimethylbenzene	10.0
1,3,5- Trimethylbenzene	3.3
Benzene	0.06
Ethylbenzene	5.5
Isopropylbenzene	3.3
Naphthalene	13.0
N-Propylbenzene	3.7
Toluene	1.5
Xylenes, Total	1.2

	New York TAGM Rec. Soil Cleanup Objective (mg/kg)	New York TAGM Eastern USA Background (mg/kg)
METALS		
Arsenic	7.5	12
Beryllium	0.16	1.75
Cadmium	1	1
Chromium	10	40
Copper	25	50
Iron	2000	550000
Lead	NA	NA
Magnesium	NA	5000
Mercury	0.1	0.2
Nickel	13	25
Zinc	20	50

SOIL SAMPLE RESULTS MAP

3200 CROMPOND ROAD
SECTION 26.18, BLOCK 1, LOTS 1 AND 19
WESTCHESTER COUNTY, NEW YORK

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

SUBMITTED BY:	SUBMITTED BY:	APPROVED BY:	PLATE NUMBER:
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TABLES

TABLE I
Sampling Designations, Depths and Analytical Parameters
3200 Crompond Road
Yorktown, New York

Sample Number	Sample Depth	Analytical Parameters
TA-1	11.5 - 12	VOCs
PI-1	10 - 10.5	VOCs
PI-2	10 - 10.5	VOCs
PI-4	7-7.5	VOCs
PI-5	4.5 - 5	VOCs
PI-6	9.5 - 10	VOCs
PI-7	4.0 - 4.5	VOCs
PI-9	6 - 6.5	VOCs
SS-1	7.5 - 8	VOCs, BNs, PCBs, TAL Metals
SS-2	8.5 - 8	VOCs, BNs, PCBs, TAL Metals
SS-3	7.5 - 8	VOCs, BNs, PCBs, TAL Metals
SS-4	7.5 - 8	VOCs, BNs, PCBs, TAL Metals
GWO-1	10 - 10.5	VOCs, BNs, PCBs, TAL Metals
GWO-2	3.5 - 4	VOCs, BNs, PCBs, TAL Metals
GWO-3	10.5 - 11	VOCs, BNs, PCBs, TAL Metals
GHO-1	7.5 - 8	VOCs, BNs
GHO-2	11.5 - 12	VOCs, BNs
GHO-3	8.5 - 9	VOCs, BNs
GHO-4	8.5 - 9	VOCs, BNs
HL-1	8 - 8.5	VOCs, PAHs
HL-2	8 - 8.5	VOCs, PAHs
HL-3	8 - 8.5	PAHs
MT-1	9.5 - 10	VOCs, BNs
MT-2	9.5 - 10	VOCs, BNs
MT-3	9.5 - 10	VOCs, BNs
MT-4	9.5 - 10	VOCs, BNs
TP-1	2'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-2	2'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-3	2'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-4	1'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-5	1'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-6	4'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-7	4'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-8	4'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-9	4'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-10	4	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-11	2'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-12	2'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-13	1'	VOCs, BNs, Pesticides, PCBs, TAL Metals
TP-14	2'	VOCs, BNs, Pesticides, PCBs, TAL Metals
PA-1	1' - 1.5'	VOCs
PA-2	1' - 1.5'	VOCs
PLT-2	6.5' - 7'	VOCs, BNs
PLT-3	6.5' - 7'	VOCs, BNs
PLT-4	6.5' - 7'	VOCs, BNs

Sample Number	Sample Depth	Analytical Parameters
MBT-1	0.5 - 1.0	VOCs, BNs, PCBs, TAL Metals
OCR-1	6 - 6.5	VOCs, BNs
LM-1	1 - 1.5	Full TAL/TCL
LM-2	1 - 1.5	Full TAL/TCL
LM-3	1 - 1.5	Full TAL/TCL
LM-4	1 - 1.5	Full TAL/TCL
LM-6	1 - 1.5	Full TAL/TCL
BARN-1	1 - 1.5	Full TAL/TCL
PEST-1	0" - 6"	Pesticides, Arsenic & Lead
PEST-2	0" - 6"	Pesticides, Arsenic & Lead
PEST-3	0" - 6"	Pesticides, Arsenic & Lead
PEST-4	0" - 6"	Pesticides, Arsenic & Lead
PEST-5	0" - 6"	Pesticides, Arsenic & Lead
PEST-6	0" - 6"	Pesticides, Arsenic & Lead
PEST-7	0" - 6"	Pesticides, Arsenic & Lead
PEST-8	0" - 6"	Pesticides, Arsenic & Lead
PEST-9	0" - 6"	Pesticides, Arsenic & Lead
PEST-10	0" - 6"	Pesticides, Arsenic & Lead

TABLE 2
SOIL SAMPLING ANALYTICAL RESULTS
PAINT AREA, POOL UST, MOTEL BASEMENT AND RESIDENTIAL TANK
3200 CROMPOND ROAD
YORKTOWN, NEW TORK

Sample ID	NYSDEC	PA-1		PA-2		PLT-2		PLT-3		PLT-4		OCR-1	
Lab Sample No.	Recommended	460-7695-7		460-7695-8		460-7695-10		460-7695-11		460-7695-12		460-7695-17	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/6/2009		11/6/2009		11/6/2009		11/6/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)													
1,2,4-Trimethylbenzene	10.0	0.0013	U	0.0012	J	0.0013	U	0.0014	U	0.0011	U	0.0011	U
1,3,5-Trimethylbenzene	3.3	0.0013	U	0.00096	J	0.0013	U	0.0014	U	0.0011	U	0.0011	U
Benzene	0.06	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U	0.0011	U
Ethylbenzene	5.5	0.0013	U	0.00029	J	0.0013	U	0.0014	U	0.0011	U	0.0011	U
Isopropylbenzene	2.3	0.0013	U	0.00044	J	0.0013	U	0.0014	U	0.0011	U	0.0011	U
MTBE	NA	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U	0.0011	U
Naphthalene	13.0	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U	0.0011	U
n-Butylbenzene	10.0	0.0013	U	0.00039	J	0.0013	U	0.0014	U	0.0011	U	0.0011	U
N-Propylbenzene	3.7	0.0013	U	0.00098	J	0.0013	U	0.0014	U	0.0011	U	0.0011	U
p-Isopropyltoluene	10.0	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U	0.0011	U
sec-Butylbenzene	10.0	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U	0.0011	U
tert-Butylbenzene	10.0	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U	0.0011	U
Toluene	1.5	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U	0.0011	U
Xylenes, Total	1.2	0.004	U	0.0032	J	0.0039	U	0.0041	U	0.0034	U	0.0033	U
Total Confident Conc.		0		0.0027		0		0		0		0	
Total Estimated Conc. (TICs)		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 2
SOIL SAMPLING ANALYTICAL RESULTS
PAINT AREA, POOL UST, MOTEL BASEMENT AND RESIDENTIAL TANK
3200 CROMPOND ROAD
YORKTOWN, NEW TORK

Sample ID	NYSDEC	MBT-1	
Lab Sample No.	Recommended	460-7695-13	
Sampling Date	Soil Cleanup	11/6/2009	
Matrix	objective	Solid	
Dilution Factor		100	
Units	mg/kg	mg/kg	
VOLATILE COMPOUNDS (GC/MS)			
1,2,4-Trimethylbenzene	10.0	***12***	
1,3,5-Trimethylbenzene	3.3	3.0	
Benzene	0.06	***0.20***	U
Ethylbenzene	5.5	0.22	
Isopropylbenzene	2.3	0.50	
m&p-Xylene	NA	0.72	
MTBE	NA	0.20	U
Naphthalene	13.0	8.5	
n-Butylbenzene	10.0	4.5	
N-Propylbenzene	3.7	1.6	
o-Xylene	NA	0.64	
p-Isopropyltoluene	10.0	2.6	
sec-Butylbenzene	10.0	3.3	
tert-Butylbenzene	10.0	0.20	U
Toluene	1.5	0.20	U
Xylenes, Total	1.2	***1.4***	
Total Confident Conc.		38.98	
Total Estimated Conc. (TICs)		0	
PESTICIDES/PCBs			
Aroclor 1016	NA	0.069	U
Aroclor 1221	NA	0.069	U
Aroclor 1232	NA	0.069	U
Aroclor 1242	NA	0.069	U
Aroclor 1248	NA	0.069	U
Aroclor 1254	NA	0.069	U
Aroclor 1260	NA	0.069	U
Aroclor 1262	NA	0.069	U
Aroclor 1268	NA	0.069	U

TABLE 2
SOIL SAMPLING ANALYTICAL RESULTS
PAINT AREA, POOL UST, MOTEL BASEMENT AND RESIDENTIAL TANK
3200 CROMPOND ROAD
YORKTOWN, NEW TORK

Sample ID	New York TAGM	NYSDEC	PLT-2		PLT-3		PLT-4		OCR-1		MBT-1	
Lab Sample No.	Rec. Soil	Recommended	460-7695-10		460-7695-11		460-7695-12		460-7695-17		460-7695-13	
Sampling Date	Cleanup Objective	Soil Cleanup	11/6/2009		11/6/2009		11/6/2009		11/6/2009		11/6/2009	
Matrix	Criteria	objective	Solid		Solid		Solid		Solid		Solid	
Dilution Factor			1		1		1		1		2	
Units	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)												
Acenaphthene	50	50.1	0.46	U	0.46	U	0.38	U	0.36	U	0.75	
Acenaphthylene	41	50.2	NR		NR		NR		NR		NR	
Anthracene	50	50.0	0.46	U	0.46	U	0.38	U	0.36	U	0.38	J
Benzo[a]anthracene	0.22	0.224	0.046	U	0.046	U	0.038	U	0.036	U	0.068	U
Benzo[a]pyrene	0.061	0.061	0.046	U	0.046	U	0.038	U	0.036	U	***0.068***	U
Benzo[b]fluoranthene	1.1	0.220	0.046	U	0.046	U	0.038	U	0.036	U	0.068	U
Benzo[g,h,i]perylene	50	50.0	0.46	U	0.46	U	0.38	U	0.36	U	0.68	U
Benzo[k]fluoranthene	1.1	0.220	0.046	U	0.046	U	0.038	U	0.036	U	0.068	U
Chrysene	0.40	0.4	***0.46***	U	***0.46***	U	0.38	U	0.36	U	***0.68***	U
Dibenz(a,h)anthracene	0.014	0.0143	***0.046***	U	***0.046***	U	***0.038***	U	***0.036***	U	***0.068***	U
Fluoranthene	50	50.0	0.46	U	0.46	U	0.38	U	0.36	U	0.68	U
Fluorene	50	50.0	0.46	U	0.46	U	0.38	U	0.36	U	1.0	
Indeno[1,2,3-cd]pyrene	3.2	3.2	0.046	U	0.046	U	0.038	U	0.036	U	0.068	U
Naphthalene	13	13.0	0.46	U	0.46	U	0.38	U	0.36	U	2.1	
Phenanthrene	50	50.0	0.46	U	0.46	U	0.38	U	0.36	U	2.2	
Pyrene	50	50.0	0.46	U	0.46	U	0.38	U	0.36	U	0.40	J
Total Confident Conc.			0		0		0		0		6.05	
Total Estimated Conc. (TICs)			0		0		0		0		0	

NR: Not analyzed.

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U: Indicates the analyte was analyzed for but not detected.

TABLE 2
SOIL SAMPLING ANALYTICAL RESULTS
PAINT AREA, POOL UST, MOTEL BASEMENT AND RESIDENTIAL TANK
3200 CROMPOND ROAD
YORKTOWN, NEW TORK

Sample ID	New York TAGM	New York TAGM	New York TAGM	MBT-1	
Lab Sample No.	Rec. Soil	Rec. Soil	Eastern USA	460-7695-13	
Sampling Date	Cleanup Objective	Cleanup Objective	Background	11/6/2009	
Matrix	Criteria	(ug/kg)	(mg/kg)	Solid	
Dilution Factor					
Units	mg/kg	mg/kg	mg/kg	mg/Kg	
METALS					
Aluminum	NA	NA	33000	6440	
Antimony	NA	NA	NA	2.1	U
Arsenic	7.5	7.5	12	0.85	J
Barium	300	300	600	33.4	J
Beryllium	0.16	0.16	1.75	***0.22***	J
Cadmium	1	1	1	1.0	U
Calcium	NA	NA	35000	750	J
Chromium	10	10	40	3.8	
Cobalt	30	30	60	2.8	J
Copper	25	25	50	3.3	J
Iron	2000	2000	550000	***13100***	
Lead	NA	NA	NA	2.3	
Magnesium	NA	NA	5000	2520	
Manganese	NA	NA	5000	206	
Mercury	0.10	0.1	0.2	0.033	U
Nickel	13	13	25	2.0	J
Potassium	NA	NA	43000	2910	
Selenium	2	2	3.9	***2.1***	U
Silver	NA	NA	NA	2.1	U
Sodium	NA	NA	8000	81.3	J
Thallium	NA	NA	NA	2.1	U
Vanadium	150	150	300	13.5	
Zinc	20	20	50	***35.0***	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS
TEST PITS
3200 CROMPOUND ROAD
YORKTOWN, NEW YORK

Sample ID	NYSDEC	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7	
Lab Sample No.	Recommended	460-7676-1		460-7676-2		460-7676-3		460-7676-4		460-7676-5		460-7676-6		460-7676-7	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)															
1,2,4-Trimethylbenzene	10.0	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
1,3,5-Trimethylbenzene	3.3	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
Benzene	0.06	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
Ethylbenzene	5.5	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
Isopropylbenzene	2.3	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
MTBE	0.12	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
Naphthalene	13.0	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
n-Butylbenzene	10.0	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
N-Propylbenzene	3.7	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
p-Isopropyltoluene	10.0	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
sec-Butylbenzene	10.0	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
tert-Butylbenzene	10.0	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
Toluene	1.5	0.0013	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U	0.0014	U
Xylenes, Total	1.2	0.0038	U	0.0039	U	0.0035	U	0.0036	U	0.0036	U	0.0033	U	0.0043	U
Total Confident Conc.		0		0		0		0		0		0		0	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0	

Sample ID	NYSDEC	TP-8		TP-9		TP-10		TP-11		TP-12		TP-13		TP-14	
Lab Sample No.	Recommended	460-7676-8		460-7676-9		460-7676-10		460-7676-11		460-7676-12		460-7676-13		460-7676-14	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)															
1,2,4-Trimethylbenzene	10.0	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
1,3,5-Trimethylbenzene	3.3	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
Benzene	0.06	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
Ethylbenzene	5.5	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
Isopropylbenzene	2.3	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
MTBE	0.12	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
Naphthalene	13.0	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
n-Butylbenzene	10.0	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
N-Propylbenzene	3.7	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
p-Isopropyltoluene	10.0	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
sec-Butylbenzene	10.0	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
tert-Butylbenzene	10.0	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
Toluene	1.5	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.0011	U
Xylenes, Total	1.2	0.0033	U	0.0035	U	0.0032	U	0.0035	U	0.0034	U	0.0035	U	0.0034	U
Total Confident Conc.		0		0		0		0		0		0		0	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS
TEST PITS
3200 CROMPOUND ROAD
YORKTOWN, NEW YORK

Sample ID	NYSDEC	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7	
Lab Sample No.	Recommended	460-7676-1		460-7676-2		460-7676-3		460-7676-4		460-7676-5		460-7676-6		460-7676-7	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)															
Acenaphthene	50.1	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.48	U
Anthracene	50.0	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.48	U
Benzo[a]anthracene	0.224	0.017	J	0.039	J	0.033	J	0.040	U	0.040	U	0.037	U	0.055	
Benzo[a]pyrene	0.061	0.0098	J	0.022	J	0.019	J	0.010	J	0.040	U	0.037	U	0.053	
Benzo[b]fluoranthene	0.220	0.044	U	0.032	J	0.009	J	0.0097	J	0.040	U	0.037	U	0.062	
Benzo[g,h,i]perylene	50.0	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.071	J
Benzo[k]fluoranthene	0.220	0.044	U	0.014	J	0.039	U	0.040	U	0.040	U	0.037	U	0.025	J
Chrysene	0.4	***0.44***	U	***0.44***	U	0.39	U	0.40	U	0.40	U	0.37	U	***0.48***	U
Dibenz(a,h)anthracene	0.0143	***0.044***	U	***0.044***	U	***0.039***	U	***0.040***	U	***0.040***	U	***0.037***	U	0.013	J
Fluoranthene	50.0	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.087	J
Fluorene	50.0	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.48	U
Indeno[1,2,3-cd]pyrene	3.2	0.044	U	0.014	J	0.039	U	0.040	U	0.040	U	0.037	U	0.059	
Naphthalene	13.0	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.48	U
Phenanthrene	50.0	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.48	U
Pyrene	50.0	0.44	U	0.44	U	0.39	U	0.40	U	0.40	U	0.37	U	0.48	U
Total Confident Conc.		0		0		0		0		0		0		0.229	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0	

Sample ID	NYSDEC	TP-8		TP-9		TP-10		TP-11		TP-12		TP-13		TP-14	
Lab Sample No.	Recommended	460-7676-8		460-7676-9		460-7676-10		460-7676-11		460-7676-12		460-7676-13		460-7676-14	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)															
Acenaphthene	50.1	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Anthracene	50.0	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Benzo[a]anthracene	0.224	0.036	U	0.016	J	0.037	U	0.040	U	0.037	J	0.040	U	0.038	U
Benzo[a]pyrene	0.061	0.033	J	0.0087	J	0.037	U	0.040	U	0.024	J	0.0085	J	0.038	U
Benzo[b]fluoranthene	0.220	0.044		0.010	J	0.037	U	0.0085	J	0.038	J	0.012	J	0.038	U
Benzo[g,h,i]perylene	50.0	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Benzo[k]fluoranthene	0.220	0.036	U	0.040	U	0.037	U	0.040	U	0.039	U	0.040	U	0.038	U
Chrysene	0.4	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Dibenz(a,h)anthracene	0.0143	***0.036***	U	***0.040***	U	***0.037***	U	***0.040***	U	***0.039***	U	***0.040***	U	***0.038***	U
Fluoranthene	50.0	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Fluorene	50.0	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Indeno[1,2,3-cd]pyrene	3.2	0.019	J	0.040	U	0.037	U	0.040	U	0.018	J	0.040	U	0.038	U
Naphthalene	13.0	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Phenanthrene	50.0	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Pyrene	50.0	0.36	U	0.40	U	0.37	U	0.40	U	0.39	U	0.40	U	0.38	U
Total Confident Conc.		0.044		0		0		0		0		0		0	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0	

NR: Not analyzed.
*: Recovery or RPD exceeds control limits
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.

TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS
TEST PITS
3200 CROMPOUND ROAD
YORKTOWN, NEW YORK

Sample ID	New York TAGM	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7	
Lab Sample No.	Rec. Soil	460-7676-1		460-7676-2		460-7676-3		460-7676-4		460-7676-5		460-7676-6		460-7676-7	
Sampling Date	Cleanup Objective	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	(ug/kg)	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PESTICIDES															
4,4'-DDD	2.9	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
4,4'-DDE	2.1	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
4,4'-DDT	2.1	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Aldrin	0.041	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
alpha-BHC	0.11	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
beta-BHC	0.20	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Chlordane	0.54	0.088	U	0.090	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U
delta-BHC	0.30	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Dieldrin	0.044	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Endosulfan I	0.90	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Endosulfan II	0.90	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Endosulfan sulfate	1.0	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Endrin	0.10	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Endrin aldehyde	NA	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Endrin ketone	NA	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
gamma-BHC (Lindane)	0.060	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Heptachlor	0.10	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Heptachlor epoxide	0.020	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Methoxychlor	NA	0.0088	U	0.009	U	0.0079	U	0.0081	U	0.008	U	0.0075	U	0.0097	U
Toxaphene	NA	0.088	U	0.090	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U

Sample ID	New York TAGM	TP-8		TP-9		TP-10		TP-11		TP-12		TP-13		TP-14	
Lab Sample No.	Rec. Soil	460-7676-8		460-7676-9		460-7676-10		460-7676-11		460-7676-12		460-7676-13		460-7676-14	
Sampling Date	Cleanup Objective	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	(ug/kg)	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PESTICIDES															
4,4'-DDD	2.9	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
4,4'-DDE	2.1	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
4,4'-DDT	2.1	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.0032	J	0.0078	U
Aldrin	0.041	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
alpha-BHC	0.11	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
beta-BHC	0.20	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Chlordane	0.54	0.074	U	0.081	U	0.076	U	0.082	U	0.079	U	0.080	U	0.078	U
delta-BHC	0.30	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Dieldrin	0.044	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Endosulfan I	0.90	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Endosulfan II	0.90	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Endosulfan sulfate	1.0	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Endrin	0.10	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Endrin aldehyde	NA	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Endrin ketone	NA	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
gamma-BHC (Lindane)	0.060	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Heptachlor	0.10	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Heptachlor epoxide	0.020	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Methoxychlor	NA	0.0074	U	0.0081	U	0.0076	U	0.0082	U	0.0079	U	0.008	U	0.0078	U
Toxaphene	NA	0.074	U	0.081	U	0.076	U	0.082	U	0.079	U	0.080	U	0.078	U

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS
TEST PITS
3200 CROMPOUND ROAD
YORKTOWN, NEW YORK

Sample ID	New York TAGM	New York TAGM	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7	
Lab Sample No.	Rec. Soil	Eastern USA	460-7676-1		460-7676-2		460-7676-3		460-7676-4		460-7676-5		460-7676-6		460-7676-7	
Sampling Date	Cleanup Objective	Background	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	(ug/kg)	(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		mg/Kg		mg/Kg	
METALS																
Aluminum	NA	33000	11200		11200		11200		17300		9190		6590		26800	
Antimony	NA	NA	2.6	U	2.6	U	2.3	U	2.4	U	2.4	U	2.3	U	2.9	U
Arsenic	7.5	12	1.9		2.0		2.3		***7.7***		3.7		***8.4***		2.0	
Barium	300	600	75.6		82.0		76.4		129		71.3		89.0		***380***	
Beryllium	0.16	1.75	***0.41***	J	***0.42***	J	***0.39***	J	***0.60***		***0.36***	J	***0.25***	J	***0.93***	
Cadmium	1	1	***1.3***	U	***1.3***	U	***1.2***	U	***1.2***	U	***1.2***	U	0.54	J	***1.4***	U
Calcium	NA	35000	1810	B	1410	B	2470	B	2340	B	7300	B	29800	B	5630	B
Chromium	10	40	***14.4***		***14.2***		***13.4***		***22.5***		9.7		***14.5***		***33.0***	
Cobalt	30	60	6.9	J	7.2	J	6.7	J	8.3	J	5.8	J	3.5	J	14.1	J
Copper	25	50	19.6		20.4		18.2		***46.8***		18.8		***44.8***		19.0	
Iron	2000	550000	***18000***		***18200***		***18100***		***21600***		***14500***		***10400***		***37500***	
Lead	NA	NA	13.1		26.3		11.6		47.5		51.7		64.5		8.6	
Magnesium	NA	5000	3570		3320		3600		***5970***		***6330***		***16700***		***15900***	
Manganese	NA	5000	355		318		299		358		312		305		479	
Mercury	0.1	0.2	0.034	J	0.041	U	0.041		0.045		0.036	U	0.037	U	***0.15***	
Nickel	13	25	12.2		11.8		11.2		***15.8***		9.7		9.1		***23.1***	
Potassium	NA	43000	1450		1670		1710		2050		982	J	1290		9350	
Selenium	2	3.9	***2.6***	U	***2.6***	U	***2.3***	U	***2.4***	U	***2.4***	U	***2.3***	U	***2.9***	U
Silver	NA	NA	2.6	U	2.6	U	2.3	U	2.4	U	2.4	U	2.3	U	2.9	U
Sodium	NA	8000	1320	U	1280	U	1150	U	1200	U	1180	U	1130	U	1430	U
Thallium	NA	NA	2.6	U	2.6	U	2.3	U	2.4	U	2.4	U	2.3	U	2.9	U
Vanadium	150	300	21.9		21.7		22.8		31.2		17.0		19.1		60.5	
Zinc	20	50	***48.3***	B	***62.9***	B	***49.0***	B	***79.6***	B	***75.2***	B	***126***	B	***86.3***	B

Sample ID	New York TAGM	New York TAGM	TP-8		TP-9		TP-10		TP-11		TP-12		TP-13		TP-14	
Lab Sample No.	Rec. Soil	Eastern USA	460-7676-8		460-7676-9		460-7676-10		460-7676-11		460-7676-12		460-7676-13		460-7676-14	
Sampling Date	Cleanup Objective	Background	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	(ug/kg)	(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		mg/Kg		mg/Kg	
METALS																
Aluminum	NA	33000	8590		11000		20200		17200		15800		16100		12200	
Antimony	NA	NA	2.1	U	2.3	U	2.2	U	2.3	U	2.4	U	2.3	U	2.3	U
Arsenic	7.5	12	1.2		3.2		1.5		5.0		2.6		4.3		3.2	
Barium	300	600	57.1		74.0		229		104		117		60.4		112	
Beryllium	0.16	1.75	***0.28***	J	***0.43***	J	***0.66***		***0.61***		***0.58***		***0.57***		***0.48***	
Cadmium	1	1	1.0	U	***1.1***	U	***1.1***	U	***1.2***	U	***1.2***	U	***1.1***	U	***1.1***	U
Calcium	NA	35000	1590	B	1880	B	4050	B	1350	B	3490	B	360	B	2610	B
Chromium	10	40	***18.8***		***13.5***		***45.8***		***25.7***		***19.0***		***18.8***		***28.0***	
Cobalt	30	60	4.5	J	6.6	J	12.5		7.0	J	7.6	J	4.7	J	8.9	J
Copper	25	50	6.1		19.7		17.8		19.3		24.3		11.1		***48.9***	
Iron	2000	550000	***13800***		***17200***		***28400***		***20400***		***21900***		***17000***		***18900***	
Lead	NA	NA	5.1		25.7		4.4		27.2		37.8		20.7		9.5	
Magnesium	NA	5000	2820		3290		***11500***		4690		***5470***		2650		***6000***	
Manganese	NA	5000	118		394		357		349		347		197		916	
Mercury	0.1	0.2	***0.11***		0.054		0.036	U	0.053		0.046		0.053		0.037	U
Nickel	13	25	7.7	J	11.6		***26.0***		***15.4***		***14.2***		10.0		***20.4***	
Potassium	NA	43000	576	J	1180		5950		1330		2420		577	J	2700	
Selenium	2	3.9	***2.1***	U	***2.3***	U	***2.2***	U	***2.3***	U	***2.4***	U	***2.3***	U	***2.3***	U
Silver	NA	NA	2.1	U	2.3	U	2.2	U	2.3	U	2.4	U	2.3	U	2.3	U
Sodium	NA	8000	153	J	1140	U	113	J	1150	U	1180	U	1150	U	1140	U
Thallium	NA	NA	2.1	U	2.3	U	2.2	U	2.3	U	2.4	U	2.3	U	2.3	U
Vanadium	150	300	20.5		20.8		47.4		27.9		28.6		22.0		29.0	
Zinc	20	50	***22.6***	B	***54.3***	B	***55.5***	B	***64.1***	B	***78.0***	B	***48.6***	B	***117***	B

TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS
TEST PITS
3200 CROMPOUND ROAD
YORKTOWN, NEW YORK

Sample ID	New York TAGM	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7		TP-8		TP-9		TP-10		TP-11		TP-12		TP-13		TP-14	
Lab Sample No.	Rec. Soil	460-7676-1		460-7676-2		460-7676-3		460-7676-4		460-7676-5		460-7676-6		460-7676-7		460-7676-8		460-7676-9		460-7676-10		460-7676-11		460-7676-12		460-7676-13		460-7676-14	
Sampling Date	Cleanup Objective	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PESTICIDES/PCBs																													
Aroclor 1016	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U
Aroclor 1221	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U
Aroclor 1232	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U
Aroclor 1242	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U
Aroclor 1248	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U
Aroclor 1254	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U
Aroclor 1260	NA	0.51		0.056	J p	0.099		0.075	J	0.080	U	0.031	J	0.18		0.059	J	0.080	U	0.075	U	0.082	U	0.76		0.080	U	0.078	U
Aroclor 1262	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U
Aroclor 1268	NA	0.088	U	0.089	U	0.079	U	0.081	U	0.080	U	0.075	U	0.097	U	0.074	U	0.080	U	0.075	U	0.082	U	0.079	U	0.080	U	0.078	U

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

p: The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

U: Indicates the analyte was analyzed for but not detected.

TABLE 4
SOIL SAMPLING ANALYTICAL RESULTS
5,000-GALLON UST
3200 CROMPOND ROAD
YORKTOWN, NEW TORK

Sample ID	NYSDEC	MT-1		MT-2		MT-3		MT-4	
Lab Sample No.	Recommended	460-7676-24		460-7676-25		460-7676-26		460-7676-27	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	objective	Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)									
1,2,4-Trimethylbenzene	10.0	0.001	U	0.001	U	0.0011	U	0.0013	U
1,3,5-Trimethylbenzene	3.3	0.001	U	0.001	U	0.0011	U	0.0013	U
Benzene	0.06	0.001	U	0.001	U	0.0011	U	0.0013	U
Ethylbenzene	5.5	0.001	U	0.001	U	0.00047	J	0.0013	U
Isopropylbenzene	2.3	0.001	U	0.001	U	0.0011	U	0.0013	U
MTBE	NA	0.001	U	0.001	U	0.0011	U	0.0013	U
Naphthalene	13.0	0.001	U	0.001	U	0.0011	U	0.0013	U
n-Butylbenzene	10.0	0.001	U	0.001	U	0.0011	U	0.0013	U
N-Propylbenzene	3.7	0.001	U	0.001	U	0.0011	U	0.00060	J
p-Isopropyltoluene	10.0	0.001	U	0.001	U	0.0011	U	0.0013	U
sec-Butylbenzene	10.0	0.001	U	0.001	U	0.0011	U	0.0013	U
tert-Butylbenzene	10.0	0.001	U	0.001	U	0.0011	U	0.0013	U
Toluene	1.5	0.00074	J	0.00080	J	0.0016		0.0013	U
Xylenes, Total	1.2	0.0031	U	0.0031	U	0.0013	J	0.0038	U
Total Confident Conc.		0		0		0.0016		0	
Total Estimated Conc. (TICs)		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 4
SOIL SAMPLING ANALYTICAL RESULTS
5,000-GALLON UST
3200 CROMPOND ROAD
YORKTOWN, NEW TORK

Sample ID	New York TAGM	NYSDEC	MT-1		MT-2		MT-3		MT-4	
Lab Sample No.	Rec. Soil	Recommended	460-7676-24		460-7676-25		460-7676-26		460-7676-27	
Sampling Date	Cleanup Objective	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	Criteria	objective	Solid		Solid		Solid		Solid	
Dilution Factor			1		1		1		1	
Units	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)										
Acenaphthene	50	50.1	0.35	U	0.35	U	0.37	U	0.42	U
Anthracene	50	50.0	0.35	U	0.35	U	0.37	U	0.42	U
Benzo[a]anthracene	0.22	0.224	0.035	U	0.035	U	0.037	U	0.042	U
Benzo[a]pyrene	0.061	0.061	0.035	U	0.035	U	0.037	U	0.042	U
Benzo[b]fluoranthene	1.1	0.220	0.035	U *	0.035	U *	0.037	U *	0.042	U *
Benzo[g,h,i]perylene	50	50.0	0.35	U *	0.35	U *	0.37	U *	0.42	U *
Benzo[k]fluoranthene	1.1	0.220	0.035	U	0.035	U	0.037	U	0.042	U
Chrysene	0.40	0.4	0.35	U	0.35	U	0.37	U	***0.42***	U
Dibenz(a,h)anthracene	0.014	0.0143	***0.035***	U	***0.035***	U	***0.037***	U	***0.042***	U
Fluoranthene	50	50.0	0.35	U	0.35	U	0.37	U	0.42	U
Fluorene	50	50.0	0.35	U	0.35	U	0.37	U	0.42	U
Indeno[1,2,3-cd]pyrene	3.2	3.2	0.035	U	0.035	U	0.037	U *	0.042	U *
Naphthalene	13	13.0	0.35	U	0.35	U	0.37	U	0.42	U
Phenanthrene	50	50.0	0.35	U	0.35	U	0.37	U	0.42	U
Pyrene	50	50.0	0.35	U	0.35	U	0.37	U	0.42	U
Total Confident Conc.			0		0		0		0	
Total Estimated Conc. (TICs)			0		0		0		0	

NR: Not analyzed.

*: Recovery or RPD exceeds control limits

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 5
SOIL SAMPLING ANALYTICAL RESULTS -FORMER SERVICE STATION TANK AREA AND PUMP ISLAND
FORMER TEXACO GASOLINE STATION
CROMPOND ROAD
YORKTOWN, NEW YORK

Sample ID	NYSDEC	TA-1		PI-1		PI-2		PI-4		PI-5		PI-6		PI-7		PI-9	
Lab Sample No.	Recommended	460-7676-15		460-7676-16		460-7676-17		460-7676-19		460-7676-20		460-7676-21		460-7676-22		460-7695-9	
Sampling Date	Soil Cleanup	11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/5/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		50		1		50		100		200		50		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)																	
1,2,4-Trimethylbenzene	10.0	0.90		0.0011	U	0.031	J	0.18	J	0.46	U	0.91		0.0011	U	0.001	U
1,3,5-Trimethylbenzene	3.3	0.47		0.0011	U	0.048	J	0.23	U	0.46	U	0.18		0.0011	U	0.001	U
Benzene	0.06	***0.11***	U	0.0011	U	***0.11***	U	***0.23***	U	***0.46***	U	***0.12***	U	0.0011	U	0.001	U
Ethylbenzene	5.5	0.20		0.0011	U	0.048	J	0.38		1.9		0.28		0.0011	U	0.001	U
Isopropylbenzene	2.3	0.80		0.00055	J	0.83		2.6		6.7		0.079	J	0.0011	U	0.001	U
MTBE	NA	0.11	U	0.0011	U	0.11	U	0.23	U	0.46	U	0.12	U	0.0011	U	0.001	U
Naphthalene	13.0	0.68		0.00073	J	0.11	U	0.23	U	5.5		0.22		0.00095	J	0.001	U
n-Butylbenzene	10.0	0.11	U	0.002		0.56		4.1		3.8		0.12	U	0.0011	U	0.0032	
N-Propylbenzene	3.7	2.8		0.002		3.1		12		25		0.26		0.0011	U	0.001	U
p-Isopropyltoluene	10.0	0.25		0.0011	U	0.11	U	0.16	J	0.46	U	0.029	J	0.0011	U	0.001	U
sec-Butylbenzene	10.0	0.77		0.00073	J	0.39		2.4		2.5		0.12	U	0.00081	J	0.0015	
tert-Butylbenzene	10.0	0.11	U	0.0011	U	0.11	U	0.23	U	0.46	U	0.12	U	0.0011	U	0.001	U
Toluene	1.5	0.064	J	0.0011	U	0.11	U	0.23	U	0.46	U	0.12	U	0.00046	J	0.001	U
Xylenes, Total	1.2	0.24	J	0.0033	U	0.33	U	0.13	J	0.43	J	0.32	J	0.0032	U	0.0031	U
Total Confident Conc.		6.87		0.004		4.88		21.48		45.4		1.85		0		0.0047	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0		0	

NR: Not analyzed.

TABLE 6
GROUNDWATER SAMPLING ANALYTICAL RESULTS
FORMER SERVICE STATION AREA
CROMPOND ROAD, YORKTOWN, NY

Sample ID	New York TAGM	NYSDEC	TA-1		PI-1		PI-2		PI-3		PI-4		SS-1		FB		TB	
Lab Sample No.	Groundwater	Groundwater	460-7691-1		460-7691-2		460-7691-3		460-7691-4		460-7691-5		460-7691-6		460-7691-7		460-7691-8	
Sampling Date	Standards	Standard	11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/4/2009		11/4/2009	
Matrix	Criteria	ug/L	Water		Water		Water		Water		Water		Water		Water		Water	
Dilution Factor			1		1		1		1		1		1		1		1	
Units	ug/l	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
VOLATILE COMPOUNDS (GC/MS)																		
1,2,4-Trimethylbenzene	5	5	0.43	J	3.2		0.51	J	0.66	J	0.59	J	13		1.0	U	1.0	U
1,3,5-Trimethylbenzene	5	5	0.34	J	2.0		0.51	J	0.68	J	1.5		1.0	U	1.0	U	1.0	U
Benzene	0.7	0.7	*1.0*	U	0.38	J	*1.1*		*16*		*65*		0.45	J	*1.0*	U	*1.0*	U
Ethylbenzene	5	5	0.55	J	*5.3*		2.4		*24*		*130*		0.70	J	1.0	U	1.0	U
Isopropylbenzene	5	5	0.67	J	12		12		48		91		3.6		1.0	U	1.0	U
m&p-Xylene	5	5	0.36	J	2.9		1.5	J	*11*		*25*		3.3		2.0	U	2.0	U
MTBE	10	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Naphthalene	10	10	1.0	U	3.4		1.3		6.7		*120*		1.0	U	1.0	U	1.0	U
n-Butylbenzene	5	5	0.63	J	2.9		5.7		19		36		1.0	U	1.0	U	1.0	U
N-Propylbenzene	5	5	2.0		*21*		*28*		*120*		*220*		*6.8*		1.0	U	1.0	U
o-Xylene	5	5	0.17	J	0.16	J	0.67	J	0.78	J	2.5		0.42	J	1.0	U	1.0	U
p-Isopropyltoluene	5	5	1.0	U	0.54	J	1.2		1.0	U	3.7		1.0	U	1.0	U	1.0	U
sec-Butylbenzene	5	5	0.28	J	2.0		3.9		*15*		*21*		1.1		1.0	U	1.0	U
tert-Butylbenzene	5	5	1.0	U	1.0	U	0.23	J	0.56	J	0.80	J	1.0	U	1.0	U	1.0	U
Toluene	5	5	1.0	U	0.30	J	0.55	J	2.6		*7.2*		0.39	J	1.0	U	1.0	U
Xylenes, Total	5	5	0.53	J	3.1		2.1	J	*11*		*29*		3.7		3.0	U	3.0	U
Total Confident Conc.			2		57.8		55.6		273.3		752.9		31.5		0		0	
Total Estimated Conc. (TICs)			0		0		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 6 (Continued)
GROUNDWATER SAMPLING ANALYTICAL RESULTS
FORMER SERVICE STATION AREA
CROMPOND ROAD, YORKTOWN, NY

Sample ID	New York TAGM	NYSDEC	SS-1		FB	
Lab Sample No.	Groundwater	Groundwater	460-7691-6		460-7691-7	
Sampling Date	Standards	Standard	11/4/2009		11/4/2009	
Matrix	Criteria	ug/L	Water		Water	
Dilution Factor			1		1	
Units	ug/l	ug/L	ug/L		ug/L	
SEMIVOLATILE COMPOUNDS (GC/MS)						
Acenaphthene	20	20	11	U	11	U
Anthracene	50	50	11	U	11	U
Benzo[a]anthracene	0.002	0.002	***1.1***	U	***1.1***	U
Benzo[a]pyrene	0.002	0.002	***1.1***	U	***1.1***	U
Benzo[b]fluoranthene	0.002	0.002	***1.1***	U	***1.1***	U
Benzo[g,h,i]perylene	5	5	***11***	U *	***11***	U *
Benzo[k]fluoranthene	0.002	0.002	***1.1***	U	***1.1***	U
Chrysene	0.002	0.002	***11***	U	***11***	U
Dibenz(a,h)anthracene	50	50	1.1	U	1.1	U
Fluoranthene	50	50	11	U	11	U
Fluorene	50	50	11	U	11	U
Indeno[1,2,3-cd]pyrene	0.002	0.002	***1.1***	U	***1.1***	U
Naphthalene	10	10	***11***	U	***11***	U
Phenanthrene	50	50	11	U	11	U
Pyrene	50	50	11	U	11	U
Total Confident Conc.			0		0	
Total Estimated Conc. (TICs)			0		0	

NR: Not analyzed.

*: Recovery or RPD exceeds control limits

U: Indicates the analyte was analyzed for but not detected.

TABLE 7

SOIL SAMPLING ANALYTICAL RESULTS - FORMER SERVICE STATION WASTE OIL TANK AND SEPTIC SYSTEM TANK

FORMER TEXACO GASOLINE STATION

CROMPOND ROAD

YORKTOWN, NEW YORK

Sample ID	NYSDEC	GWO-1		GWO-2		GWO-3		SS-1		SS-2		SS-3		SS-4	
Lab Sample No.	Recommended	460-7676-28		460-7676-29		460-7676-30		460-7676-31		460-7676-32		460-7695-1		460-7695-2	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		100		50		50		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)															
1,2,4-Trimethylbenzene	10.0	0.25	U	0.15		0.12	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
1,3,5-Trimethylbenzene	3.3	0.083	J	0.065	J	0.12	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Benzene	0.06	***0.25***	U	0.024	J	***0.12***	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Ethylbenzene	5.5	0.25	U	0.21		0.12	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Isopropylbenzene	2.3	0.67		0.069	J	0.057	J	0.0011	U	0.0011	U	0.0011	U	0.0013	U
MTBE	NA	0.25	U	0.11	U	0.12	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Naphthalene	13.0	0.26		0.11	U	0.12	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
n-Butylbenzene	10.0	3.6		0.11	U	0.18		0.0011	U	0.0011	U	0.0011	U	0.0013	U
N-Propylbenzene	3.7	***4.8***		0.34		0.35		0.0011	U	0.0011	U	0.0011	U	0.0013	U
p-Isopropyltoluene	10.0	0.50		0.11	U	0.17		0.0011	U	0.0011	U	0.0011	U	0.0013	U
sec-Butylbenzene	10.0	2.3		0.11	U	1.1		0.0011	U	0.0011	U	0.0011	U	0.0013	U
tert-Butylbenzene	10.0	0.25	U	0.11	U	0.12	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Toluene	1.5	0.25	U	0.11	U	0.12	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U
Xylenes, Total	1.2	0.75	U	0.35		0.35	U	0.0033	U	0.0034	U	0.0033	U	0.0039	U
Total Confident Conc.		12.13		1.05		1.8		0		0		0		0	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0	

NR: Not analyzed.

TABLE 7

SOIL SAMPLING ANALYTICAL RESULTS - FORMER SERVICE STATION WASTE OIL TANK AND SEPTIC SYSTEM TANK

FORMER TEXACO GASOLINE STATION

CROMPOND ROAD

YORKTOWN, NEW YORK

Sample ID	New York TAGM	NYSDEC	GWO-1		GWO-2		GWO-3		SS-1		SS-2		SS-3		SS-4	
Lab Sample No.	Rec. Soil	Recommended	460-7676-28		460-7676-29		460-7676-30		460-7676-31		460-7676-32		460-7695-1		460-7695-2	
Sampling Date	Cleanup Objective	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	Criteria	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor			1		1		1		1		1		1		1	
Units	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																
Acenaphthene	50	50.1	0.41	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	0.44	U
Anthracene	50	50.0	0.41	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	0.44	U
Benzo[a]anthracene	0.22	0.224	0.041	U	0.038	U	0.039	U	0.036	U	0.039	U	0.036	U	0.044	U
Benzo[a]pyrene	0.061	0.061	0.041	U	0.013	J	0.039	U	0.036	U	0.039	U	0.036	U	0.044	U
Benzo[b]fluoranthene	1.1	0.220	0.041	U *	0.038	U *	0.039	U *	0.036	U *	0.039	U *	0.036	U	0.044	U
Benzo[g,h,i]perylene	50	50.0	0.41	U *	0.38	U *	0.39	U *	0.36	U *	0.39	U *	0.36	U	0.44	U
Benzo[k]fluoranthene	1.1	0.220	0.041	U	0.038	U	0.039	U	0.036	U	0.039	U	0.036	U	0.044	U
Chrysene	0.40	0.4	***0.41***	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	***0.44***	U
Dibenz(a,h)anthracene	0.014	0.0143	***0.041***	U	***0.038***	U	***0.039***	U	***0.036***	U	***0.039***	U	***0.036***	U	***0.044***	U
Fluoranthene	50	50.0	0.41	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	0.44	U
Fluorene	50	50.0	0.41	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	0.44	U
Indeno[1,2,3-cd]pyrene	3.2	3.2	0.041	U *	0.038	U *	0.039	U *	0.036	U *	0.039	U *	0.036	U	0.044	U
Naphthalene	13	13.0	0.41	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	0.44	U
Phenanthrene	50	50.0	0.41	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	0.44	U
Pyrene	50	50.0	0.41	U	0.38	U	0.39	U	0.36	U	0.39	U	0.36	U	0.44	U
Total Confident Conc.			0		0		0		0		0		0		0	
Total Estimated Conc. (TICs)			0		0		0		0		0		0		0	

NR: Not analyzed.

*: Recovery or RPD exceeds control limits

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 7

SOIL SAMPLING ANALYTICAL RESULTS - FORMER SERVICE STATION WASTE OIL TANK AND SEPTIC SYSTEM TANK

FORMER TEXACO GASOLINE STATION

CROMPOND ROAD

YORKTOWN, NEW YORK

Sample ID	New York TAGM	New York TAGM	GWO-1		GWO-2		GWO-3		SS-1		SS-2	
Lab Sample No.	Rec. Soil	Soil cleanup	460-7676-28		460-7676-29		460-7676-30		460-7676-31		460-7676-32	
Sampling Date	Cleanup Objective	Objectives to protect	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	Criteria	GW quality	Solid		Solid		Solid		Solid		Solid	
Dilution Factor			1		1		1		1		1	
Units	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PESTICIDES/PCBs												
4,4'-DDD	2.9	7.7	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
4,4'-DDE	2.1	4.4	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
4,4'-DDT	2.1	2.5	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Aldrin	0.041	0.50	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
alpha-BHC	0.11	0.20	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
beta-BHC	0.20	0.20	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Chlordane	0.54	2.0	0.084	U	0.076	U	0.079	U	0.074	U	0.078	U
delta-BHC	0.30	0.30	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Dieldrin	0.044	0.10	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Endosulfan I	0.90	0.90	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Endosulfan II	0.90	0.90	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Endosulfan sulfate	1.0	1.0	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Endrin	0.10	0.10	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Endrin aldehyde	NA	NA	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Endrin ketone	NA	NA	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
gamma-BHC (Lindane)	0.060	0.060	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Heptachlor	0.10	0.10	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Heptachlor epoxide	0.020	0.020	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Methoxychlor	NA	900	0.0084	U	0.0076	U	0.0079	U	0.0074	U	0.0078	U
Toxaphene	NA	NA	0.084	U	0.076	U	0.079	U	0.074	U	0.078	U

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 7

SOIL SAMPLING ANALYTICAL RESULTS - FORMER SERVICE STATION WASTE OIL TANK AND SEPTIC SYSTEM TANK

FORMER TEXACO GASOLINE STATION

CROMPOND ROAD

YORKTOWN, NEW YORK

Sample ID	New York TAGM	GWO-1		GWO-2		GWO-3		SS-1		SS-2		SS-3		SS-4	
Lab Sample No.	Rec. Soil	460-7676-28		460-7676-29		460-7676-30		460-7676-31		460-7676-32		460-7695-1		460-7695-2	
Sampling Date	Cleanup Objective	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PESTICIDES/PCBs															
Aroclor 1016	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1221	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1232	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1242	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1248	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1254	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1260	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1262	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U
Aroclor 1268	NA	0.084	U	0.076	U	0.078	U	0.074	U	0.078	U	0.074	U	0.089	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

TABLE 7

SOIL SAMPLING ANALYTICAL RESULTS - FORMER SERVICE STATION WASTE OIL TANK AND SEPTIC SYSTEM TANK

FORMER TEXACO GASOLINE STATION

CROMPOND ROAD

YORKTOWN, NEW YORK

Sample ID	New York TAGM	New York TAGM	GWO-1		GWO-2		GWO-3		SS-1		SS-2		SS-3		SS-4	
Lab Sample No.	Rec. Soil	Eastern USA	460-7676-28		460-7676-29		460-7676-30		460-7676-31		460-7676-32		460-7695-1		460-7695-2	
Sampling Date	Cleanup Objective	Background	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/5/2009	
Matrix	(ug/kg)	(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		mg/Kg		mg/Kg	
METALS																
Aluminum	NA	33000	19600		11600		8980		10300		11500		11500		28500	
Antimony	NA	NA	2.5	U	2.3	U	2.2	U	2.2	U	2.2	U	2.1	U	2.6	U
Arsenic	7.5	12	4.1		2.7		2.6		2.1		1.3		1.9		2.6	
Barium	300	600	171		155		110		88.3		98.8		64.5		268	
Beryllium	0.16	1.75	***0.48***	J	***0.48***		***0.35***	J	***0.41***	J	***0.51***		***0.36***	J	***1.5***	
Cadmium	1	1	***1.2***	U	0.93	J	***1.1***	U	***1.1***	U	***1.1***	U	***1.1***	U	***1.3***	U
Calcium	NA	35000	4860	B	9260	B	9870	B	2100	B	1220	B	3850		3210	
Chromium	10	40	***39.3***		***17.9***		***10.6***		***14.7***		9.8		***16.4***		***53.1***	
Cobalt	30	60	26.3		6.2	J	6.8	J	7.6	J	6.3	J	9.0	J	21.8	
Copper	25	50	17.0		***31.3***		***32.9***		14.9		12.5		21.7		15.3	
Iron	2000	550000	***39100***		***18600***		***22500***		***17600***		***16300***		***20500***		***40700***	
Lead	NA	NA	6.7		143		8.9		6.6		4.4		3.5		4.5	
Magnesium	NA	5000	***12200***		4340		4480		4520		4990		***5340***		***12100***	
Manganese	NA	5000	1330		453		311		296		206		376		422	
Mercury	0.1	0.2	0.039	U	0.088		0.037	U	0.036	U	0.039	U	0.033	U	0.042	U
Nickel	13	25	***24.3***		11.6		10.3		11.6		8.5	J	***14.8***		***32.1***	
Potassium	NA	43000	1230		1080	J	2110		2810		4020		1630		8870	
Selenium	2	3.9	***2.5***	U	***2.3***	U	***2.2***	U	***2.2***	U	***2.2***	U	***2.1***	U	***2.6***	U
Silver	NA	NA	2.5	U	2.3	U	2.2	U	2.2	U	2.2	U	2.1	U	2.6	U
Sodium	NA	8000	647	J	218	J	196	J	1080	U	78.3	J	534	J	383	J
Thallium	NA	NA	2.5	U	2.3	U	2.2	U	2.2	U	2.2	U	2.1	U	2.6	U
Vanadium	150	300	47.9		22.6		22.9		23.2		21.8		30.9		109	
Zinc	20	50	***75.0***	B	***289***	B	***45.2***	B	***37.7***	B	***41.3***	B	***37.8***		***102***	

NR: Not analyzed.

B: Compound was found in the blank and sample.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 8

SOIL SAMPLING ANALYTICAL RESULTS

FORMER SERVICE STATION HEATING OIL UST AND HYDRAULIC LIFTS

CROMPOND ROAD

YORKTOWN, NEW YORK

Sample ID	NYSDEC	GHO-1		GHO-2		GHO-3		GHO-4		HL-1		HL-2		HL-3	
Lab Sample No.	Recommended	460-7695-3		460-7695-4		460-7695-5		460-7695-6		460-7695-14		460-7695-15		460-7695-16	
Sampling Date	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/6/2009		11/6/2009		11/6/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		50		1		50		1		1		50		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)															
1,2,4-Trimethylbenzene	10.0	0.28		0.0012	U	0.11	U	0.001	U	0.0011	U	0.11	U	0.040	
1,3,5-Trimethylbenzene	3.3	0.055	J	0.0012	U	0.11	U	0.001	U	0.0011	U	0.056	J	0.0014	
Benzene	0.06	***0.10***	U	0.0012	U	***0.11***	U	0.001	U	0.0011	U	***0.11***	U	0.0011	U
Ethylbenzene	5.5	0.10	U	0.0012	U	0.11	U	0.001	U	0.0011	U	0.043	J	0.00098	J
Isopropylbenzene	2.3	0.10	U	0.004		0.11	U	0.001	U	0.0094		1.3		0.0097	
MTBE	NA	0.10	U	0.0012	U	0.11	U	0.001	U	0.0011	U	0.11	U	0.0011	U
Naphthalene	13.0	0.069	J	0.0012	U	0.11	U	0.001	U	0.0011	U	0.11	U	0.0047	
n-Butylbenzene	10.0	0.13		0.026		0.11	U	0.001	U	0.0065		1.4		0.024	
N-Propylbenzene	3.7	0.10	J	0.018		0.11	U	0.001	U	0.041		***5.3***		0.026	
p-Isopropyltoluene	10.0	0.10	U	0.0012	U	0.11	U	0.001	U	0.0015		0.11	U	0.030	
sec-Butylbenzene	10.0	0.10	U	0.0091		0.11	U	0.001	U	0.019		0.96		0.011	
tert-Butylbenzene	10.0	0.10	U	0.0012	U	0.11	U	0.001	U	0.0011	U	0.11	U	0.0014	
Toluene	1.5	0.10	U	0.0012	U	0.11	U	0.001	U	0.0011	U	0.11	U	0.001	J
Xylenes, Total	1.2	0.31	U	0.0036	U	0.32	U	0.0031	U	0.0034	U	0.32	U	0.025	
Total Confident Conc.		0.41		0.0571		0		0		0.0774		8.96		0.1979	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 9
SOIL SAMPLING ANALYTICAL RESULTS
LAWN MOWER REPAIR BUILDING AND BARN
3200 CROMPOND ROAD
YORKTOWN, NEW YORK

Sample ID	NYSDEC	LM-1		LM-2		LM-3		LM-4		LM-6		Barn-1	
Lab Sample No.	Recommended	460-7783-1		460-7783-2		460-7783-3		460-7783-4		460-7783-5		460-7783-6	
Sampling Date	Soil Cleanup	11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		250		50		1		100		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)													
1,2,4-Trimethylbenzene	10.0	1.8		***23***		0.0046	U	***150***		0.0044	U	0.0011	J
1,3,5-Trimethylbenzene	3.3	1.0		***35***		0.0046	U	***48***		0.0044	U	0.00044	J
Benzene	0.06	0.52	U	0.053	J	0.0046	U	***6.1***		0.0044	U	0.0012	U
Ethylbenzene	5.5	0.52	U	2.3		0.0046	U	***45***		0.0044	U	0.00057	J
Isopropylbenzene	2.3	0.11	J	***13***		0.0046	U	***6.1***		0.0044	U	0.0012	U
m&p-Xylene	NA	0.67	J	9.5		0.0092	U	220		0.0088	U	0.0031	
MTBE	NA	0.52	U	0.13	U	0.0046	U	0.70	U	0.0044	U	0.0012	U
Naphthalene	13.0	1.5		3.5		0.0046	U	***18***		0.0044	U	0.0012	U
n-Butylbenzene	10.0	0.52	U	0.13	U	0.0046	U	0.70	U	0.0044	U	0.0012	U
N-Propylbenzene	3.7	0.18	J	***3.9***		0.0046	U	***18***		0.0044	U	0.0012	U
o-Xylene	NA	0.68		38		0.0046	U	98		0.0044	U	0.0014	
p-Isopropyltoluene	10.0	0.14	J	0.13	U	0.0046	U	1.6		0.0027	J	0.0012	U
sec-Butylbenzene	10.0	0.52	U	1.4		0.0046	U	2.1		0.0044	U	0.0012	U
tert-Butylbenzene	10.0	0.52	U	0.13	U	0.0046	U	0.70	U	0.0044	U	0.0012	U
Toluene	1.5	0.15	J	1.3		0.0046	U	***110***		0.0044	U	0.0047	
Xylenes, Total	1.2	1.4	J	***48***		0.014	U	***320***		0.013	U	0.0045	
Total Confident Conc.		4.98		178.9		0		1042.9		0		0.0137	
Total Estimated Conc. (TICs)		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 9
SOIL SAMPLING ANALYTICAL RESULTS
LAWN MOWER REPAIR BUILDING AND BARN
3200 CROMPOND ROAD
YORKTOWN, NEW YORK

Sample ID	NYSDEC	LM-1		LM-2		LM-3		LM-4		LM-6		Barn-1	
Lab Sample No.	Recommended	460-7783-1		460-7783-2		460-7783-3		460-7783-4		460-7783-5		460-7783-6	
Sampling Date	Soil Cleanup	11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)													
Acenaphthene	50.1	0.35	U	0.44	U	1.6	U	1.2	U	1.5	U	0.43	U
Anthracene	50.0	0.35	U	0.44	U	1.6	U	1.2	U	1.5	U	0.43	U
Benzo[a]anthracene	0.224	0.035	U	0.15		0.16	U	0.12	U	0.15	U	0.043	U
Benzo[a]pyrene	0.061	0.035	U	0.044	U	***0.16***	U	***0.12***	U	***0.15***	U	0.043	U
Benzo[b]fluoranthene	0.220	0.035	U	0.044	U	0.16	U	0.12	U	0.15	U	0.043	U
Benzo[g,h,i]perylene	50.0	0.35	U	0.44	U	1.6	U	1.2	U	1.5	U	0.43	U
Benzo[k]fluoranthene	0.220	0.035	U	0.044	U	0.16	U	0.12	U	0.15	U	0.043	U
Chrysene	0.4	0.35	U	0.12	J	***1.6***	U	***1.2***	U	***1.5***	U	***0.43***	U
Dibenz(a,h)anthracene	0.0143	***0.035***	U	***0.044***	U	***0.16***	U	***0.12***	U	***0.15***	U	***0.043***	U
Fluoranthene	50.0	0.35	U	0.12	J	1.6	U	1.2	U	1.5	U	0.43	U
Fluorene	50.0	0.35	U	0.44	U	1.6	U	1.2	U	1.5	U	0.43	U
Indeno[1,2,3-cd]pyrene	3.2	0.035	U	0.044	U	0.16	U	0.12	U	0.15	U	0.043	U
Naphthalene	13.0	0.083	J	0.44	U	1.6	U	3.9		1.5	U	0.43	U
Phenanthrene	50.0	0.073	J	0.11	J	1.6	U	1.2	U	1.5	U	0.43	U
Pyrene	50.0	0.35	U	0.27	J	1.6	U	1.2	U	1.5	U	0.43	U
Total Confident Conc.		0		0.15		0		3.9		0		0	
Total Estimated Conc. (TICs)		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 9
SOIL SAMPLING ANALYTICAL RESULTS
LAWN MOWER REPAIR BUILDING AND BARN
3200 CROMPOND ROAD
YORKTOWN, NEW YORK

Sample ID	NYSDEC	LM-1		LM-2		LM-3		LM-4		LM-6		Barn-1	
Lab Sample No.	Recommended	460-7783-1		460-7783-2		460-7783-3		460-7783-4		460-7783-5		460-7783-6	
Sampling Date	Soil Cleanup	11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009	
Matrix	objective	Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		250		50		1		100		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)													
1,2,4-Trimethylbenzene	10.0	1.8		***23***		0.0046	U	***150***		0.0044	U	0.0011	J
1,3,5-Trimethylbenzene	3.3	1.0		***35***		0.0046	U	***48***		0.0044	U	0.00044	J
Benzene	0.06	0.52	U	0.053	J	0.0046	U	***6.1***		0.0044	U	0.0012	U
Ethylbenzene	5.5	0.52	U	2.3		0.0046	U	***45***		0.0044	U	0.00057	J
Isopropylbenzene	2.3	0.11	J	**13**		0.0046	U	***6.1***		0.0044	U	0.0012	U
m&p-Xylene	NA	0.67	J	9.5		0.0092	U	220		0.0088	U	0.0031	
MTBE	NA	0.52	U	0.13	U	0.0046	U	0.70	U	0.0044	U	0.0012	U
Naphthalene	13.0	1.5		3.5		0.0046	U	***18***		0.0044	U	0.0012	U
n-Butylbenzene	10.0	0.52	U	0.13	U	0.0046	U	0.70	U	0.0044	U	0.0012	U
N-Propylbenzene	3.7	0.18	J	***3.9***		0.0046	U	***18***		0.0044	U	0.0012	U
o-Xylene	NA	0.68		38		0.0046	U	98		0.0044	U	0.0014	
p-Isopropyltoluene	10.0	0.14	J	0.13	U	0.0046	U	1.6		0.0027	J	0.0012	U
sec-Butylbenzene	10.0	0.52	U	1.4		0.0046	U	2.1		0.0044	U	0.0012	U
tert-Butylbenzene	10.0	0.52	U	0.13	U	0.0046	U	0.70	U	0.0044	U	0.0012	U
Toluene	1.5	0.15	J	1.3		0.0046	U	***110***		0.0044	U	0.0047	
Xylenes, Total	1.2	1.4	J	***48***		0.014	U	***320***		0.013	U	0.0045	
Total Confident Conc.		4.98		178.9		0		1042.9		0		0.0137	
Total Estimated Conc. (TICs)		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 8
SOIL SAMPLING ANALYTICAL RESULTS
FORMER SERVICE STATION HEATING OIL UST AND HYDRAULIC LIFTS
CROMPOND ROAD
YORKTOWN, NEW YORK

Sample ID	New York TAGM	NYSDEC	GHO-1		GHO-2		GHO-3		GHO-4		HL-1		HL-2		HL-3	
Lab Sample No.	Rec. Soil	Recommended	460-7695-3		460-7695-4		460-7695-5		460-7695-6		460-7695-14		460-7695-15		460-7695-16	
Sampling Date	Cleanup Objective	Soil Cleanup	11/5/2009		11/5/2009		11/5/2009		11/5/2009		11/6/2009		11/6/2009		11/6/2009	
Matrix	Criteria	objective	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor			1		1		1		1		1		2		1	
Units	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																
Acenaphthene	50	50.1	0.37	U	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.38	U
Acenaphthylene	41	50.2	NR		NR		NR		NR		0.39	U	0.75	U	0.38	U
Anthracene	50	50.0	0.37	U	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.38	U
Benzo[a]anthracene	0.22	0.224	0.089		0.040	U	0.037	U	0.036	U	0.039	U	0.075	U	0.038	U
Benzo[a]pyrene	0.061	0.061	0.037	U	0.040	U	0.037	U	0.036	U	0.039	U	***0.075***	U	0.038	U
Benzo[b]fluoranthene	1.1	0.220	0.037	U	0.040	U	0.037	U	0.036	U	0.039	U	0.075	U	0.038	U
Benzo[g,h,i]perylene	50	50.0	0.37	U	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.38	U
Benzo[k]fluoranthene	1.1	0.220	0.037	U	0.040	U	0.037	U	0.036	U	0.039	U	0.075	U	0.038	U
Chrysene	0.40	0.4	0.078	J	0.40	U	0.37	U	0.36	U	0.39	U	***0.75***	U	0.38	U
Dibenz(a,h)anthracene	0.014	0.0143	***0.037***	U	***0.040***	U	***0.037***	U	***0.036***	U	***0.039***	U	***0.075***	U	***0.038***	U
Fluoranthene	50	50.0	0.37	U	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.38	U
Fluorene	50	50.0	0.37	U	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.38	U
Indeno[1,2,3-cd]pyrene	3.2	3.2	0.037	U	0.040	U	0.037	U	0.036	U	0.039	U	0.075	U	0.038	U
Naphthalene	13	13.0	0.37	U	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.13	J
Phenanthrene	50	50.0	0.13	J	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.38	U
Pyrene	50	50.0	0.099	J	0.40	U	0.37	U	0.36	U	0.39	U	0.75	U	0.38	U
Total Confident Conc.			0.089		0		0		0		0		0		0	
Total Estimated Conc. (TICs)			0		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 9
SOIL SAMPLING ANALYTICAL RESULTS
LAWN MOWER REPAIR BUILDING AND BARN
3200 CROMPOND ROAD
YORKTOWN, NEW YORK

Sample ID	New York TAGM	New York TAGM	LM-1		LM-2		LM-3		LM-4		LM-6		Barn-1	
Lab Sample No.	Rec. Soil	Eastern USA	460-7783-1		460-7783-2		460-7783-3		460-7783-4		460-7783-5		460-7783-6	
Sampling Date	Cleanup Objective	Background	11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009	
Matrix	Criteria	(mg/kg)	Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor														
Units	mg/kg	mg/kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
METALS														
Aluminum	NA	33000	11400		1950		4700		4570		2240		13400	
Antimony	NA	NA	2.1	U	3.3		9.1	U	6.8	U	8.6	U	2.6	U
Arsenic	7.5	12	**210**		2.4		3.2	J	3.4	U	4.3	U	1.5	
Barium	300	600	223		119		169	J	91.9	J	78.8	J	72.5	
Beryllium	0.16	1.75	***1.1***		***0.53***	U	***1.8***	U	***1.4***	U	***1.7***	U	***0.52***	
Cadmium	1	1	**2.6**		**1.4**		***2.3***	J	***2.4***	J	***4.3***	U	***1.3***	U
Calcium	NA	35000	29400		10700		14200		11800		9440		1980	
Chromium	10	40	**40.7**		7.2		***20.2***		***17.7***		8.4	J	***11.1***	
Cobalt	30	60	5.4	J	16.5	U	22.6	U	2.7	J	21.4	U	4.7	J
Copper	25	50	**84.0**		**55.4**		**87.2**		**76.4**		**79.9**		17.1	
Iron	2000	550000	***38600***		***5410***		***13500***		***33100***		***5520***		***17700***	
Lead	NA	NA	908		340		139		47.6		29.0		22.4	
Magnesium	NA	5000	**9960**		1970		3240	J	3950		1760	J	**5150**	
Manganese	NA	5000	459		199		474		322		198		299	
Mercury	0.10	0.2	***0.16***		**0.40**		***0.12***	J	***0.12***	U	***0.13***	U	0.037	J
Nickel	13	25	***30.1***		5.2	J	12.7	J	12.0	J	9.7	J	7.2	J
Potassium	NA	43000	2570		522	J	913	J	908	J	781	J	7460	
Selenium	2	3.9	1.1	J	***2.6***	U	***9.1***	U	***6.8***	U	***8.6***	U	***2.6***	U
Silver	NA	NA	2.1	U	2.6	U	9.1	U	6.8	U	8.6	U	2.6	U
Sodium	NA	8000	811	J	642	J	4530	U	3410	U	436	J	427	J
Thallium	NA	NA	2.1	U	2.6	U	4.5	U	3.4	U	4.3	U	2.6	U
Vanadium	150	300	18.0		3.6	J	10	J	9.5	J	5.3	J	23.3	
Zinc	20	50	**879**		**1300**		**345**		**408**		**113**		**71.8**	
WET CHEMISTRY														
Cyanide, Total (mg/Kg)	NA	NA	0.46	J	0.46	J	1.7	J	1.8	U	2.2	U	0.66	U

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

TABLE 10
SOIL SAMPLING ANALYTICAL RESULTS
FORMER AGRICULTURAL LAND
CROMPOND ROAD
YORKTOWN, NEW YORK

Sample ID	New York	Pest-1		Pest-2		Pest-3		Pest-4		Pest-5		Pest-6		Pest-7		Pest-8		Pest-9		Pest-10	
Lab Sample No.	Residential	460-7782-1		460-7782-2		460-7782-3		460-7782-4		460-7782-5		460-7782-6		460-7782-7		460-7782-8		460-7782-9		460-7782-10	
Sampling Date	Use Soil Cleanup	11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009		11/09/2009	
Matrix	Objectives	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PESTICIDES																					
4,4'-DDD	2.6	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
4,4'-DDE	1.8	0.0059	J	0.0098	U	0.014		0.0084	U	0.0022	J p	0.0019	J p	0.0066	J	0.012	J p	0.0046	J p	0.026	U
4,4'-DDT	1.7	0.0044	J	0.0053	J	0.0041	J	0.0019	J	0.0042	J	0.0043	J	0.0072	J	0.013	U	0.014	U	0.026	U
Aldrin	0.019	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
alpha-BHC	0.097	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
beta-BHC	0.072	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Chlordane	0.91	0.086	U	0.098	U	0.080	U	0.084	U	0.083	U	0.087	U	0.095	U	0.13	U	0.14	U	0.26	U
delta-BHC	100	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Dieldrin	0.039	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	J	0.014	U	0.026	U
Endosulfan I	4.8	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Endosulfan II	4.8	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Endosulfan sulfate	4.8	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Endrin	2.2	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Endrin aldehyde	NA	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Endrin ketone	NA	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
gamma-BHC (Lindane)	0.28	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Heptachlor	0.42	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Heptachlor epoxide	NA	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	*0.026*	U
Methoxychlor	NA	0.0086	U	0.0098	U	0.008	U	0.0084	U	0.0083	U	0.0087	U	0.0095	U	0.013	U	0.014	U	0.026	U
Toxaphene	NA	0.086	U	0.098	U	0.080	U	0.084	U	0.083	U	0.087	U	0.095	U	0.13	U	0.14	U	0.26	U
METALS																					
Arsenic	16	2.9		3.9	U	2.7		2.9		3.6		3.2		3.7		3.8		5.0		2.2	
Lead	400	30.2		29.3		26.9		22.3		32.7		28.7		34.4		89.6		33.7		22.3	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

p: The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

U: Indicates the analyte was analyzed for but not detected.

ATTACHMENT A

Geophysical Investigation Report

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

TPI environmental

November 16, 2009

Peter Hansen
EcolSciences, Inc.
75 Fleetwood Dr.
Rockaway, NJ 07866

Project: Geophysical Survey – Crompond Rd. & Taconic Pkwy – Yorktown, NY

Dear Peter;

The following is a brief letter report detailing the results of the geophysical survey performed at the above referenced site. Site maps and/or pertinent ground penetrating radar (GPR) transects are contained in the report and Appendix A. It would be helpful to review Appendix A and the site maps when reading this report. TPI's standard practice is to indicate the results of the geophysical survey by marking all identified utility lines, tanks, and GPR anomalies etc. with chalk, paint or flags. It should be noted that this report is a means of transferring data and results of data interpretation, which was performed during the time allotted for the fieldwork

Project Scope and Visual Site Inspection

TPI Environmental, Inc. (TPI) was contracted by EcolSciences (client) to scan areas of concern (AOC) at the above referenced location to confirm or deny the presence of possible unknown underground storage tanks (USTs) and other significant subsurface metallic features. The site consists of several contiguous parcels of land with residential and commercial structures at the above address and as indicated on Figure 1. Upon arrival to the site on November 3 and 5, 2009, TPI reviewed the site history with the client and performed a site walk to search for any evidence of USTs. Based on the review of the site history and the layout of the site, six AOCs or were designated for the geophysical survey. During the site walk the following areas of interest were noted;

- AOC1 – Perimeter of motel rooms – Other then a formerly suspected UST adjacent to the northwest corner of the building no visual evidence of USTs was observed in this AOC.
- AOC2 – Perimeter of motel office – No visual evidence of USTs was observed inside or outside of this area.
- AOC3 – Former pool – TPI did not visually inspect this area since the geophysical survey was performed to delineate the edges of a formerly backfilled pool.
- AOC4 – Perimeter of two residences – TPI inspected the basement of the northern residence and traced product lines from the boiler to an UST located on the northwest corner of the structure. No visual evidence of USTs was observed around the perimeter of the southern residence.
- AOC5 – Perimeter of landscape office, barn, and engine repair shop – No visual evidence of USTs was observed around the perimeter of the landscape office and the barn. TPI observed two fill ports along the north wall of the engine repair shop, however, upon

closer inspection, these fill ports appear to be connected to two ASTs located in the basement. The area around the fill ports could not be scanned with GPR due to a couple large immobile lawn tractors.

- AOC6 – Former gas station – According to the client, site records indicate that the gas tanks were formerly removed from the site, however, it is not entirely clear whether or not the waste oil and heating oil tanks were removed from the site. As indicated on Figure 2 TPI observed a vent along the east wall and cutoff product lines protruding through the north wall where the suspected waste oil and heating oil USTs were located.

Methodology

Geophysical surveys are typically accomplished by employing the following techniques; GPR, Fisher TW6 electromagnetic metal detection (TW6 EM), a Geonics EM61-MK2 Time – Domain Electromagnetic Detector unit (EM61), radio frequency line locating (RF), and magnetics. The EM61 is a high power, high sensitivity metal detector capable of detecting both ferrous and non-ferrous metal. The TW6 EM unit sounds an audible alarm in the presence of a large mass of metal such as an UST. A description and discussion of these geophysical methods as well as TPI's standard procedures for performing geophysical surveys is found in Appendix A. In general, "blind surveys" are typically performed by initially scanning the site with a TW6 EM unit and/or an EM61 unit and noting areas of relatively high EM response. Then locations with a high EM response are further investigated with GPR. Known utilities are typically traced with the RF unit, GPR, and the TW6 EM unit depending on the size, matrix and conductive properties of the line. EM units are typically not effective and practical in areas underlain with reinforced concrete and/or the presence of ubiquitous metallic objects.

During EM61 surveys the EM response is sampled at four time positions at each survey point (every 0.62-feet). These four readings allow for the discrimination of targets based on target size, shape, material, and orientation. Furthermore the EM61 is designed in such a way that it is possible to distinguish deeper objects from shallow ones. In channel D mode the system suppresses near surface targets that may mask the response of deeper more important targets. This feature is useful when the purpose of the survey is to locate deeper targets, such as USTs, in the presence of near surface metallic objects such as monitor well covers.

Geophysical Survey Results

The geophysical survey at this site was accomplished with the EM61, TW6 EM and GPR units. The EM61 unit was used to scan the perimeter of the motel rooms (AOC1) and the data collected was retained on a data recorder, processed, and presented as Figure 3. The perimeters of AOCs 2, 4, 5, & 6 were scanned for evidence of metallic USTs with the TW6 EM unit. The GPR survey was performed over metallic anomalies identified during the EM surveys, in areas immediately around metallic objects, and in areas of previously suspected USTs. Results of the geophysical survey were marked on the ground with paint, maps of the survey results are contained in this report, and GPR images are found in Appendix A. Results of the geophysical survey are as follows;

- AOC1 – Perimeter of motel rooms – Other then a formerly suspected UST adjacent to the northwest corner of the building no "UST like" anomalies were detected in this area (see Figures 1 & 3).

- AOC2 – Perimeter of motel office – A linear pipe like anomaly was detected between the motel rooms and the motel office, however, no "UST like" anomalies were detected in this area
- AOC3 – Former pool – TPI performed an EM survey in this area to delineate the edges of a pool that was formerly backfilled. During the survey TPI detected a suspect UST as indicated on Figure 1.
- AOC4 – Two Residences – Other then a formerly suspected heating oil UST adjacent to the northwest corner of the north residence no "UST like" anomalies were detected in this area. An anomaly believed to be related to a septic tank was detected in the side yard approximately 40-feet west of the houses.
- AOC5 – Perimeter of landscape office, barn, engine repair – Results of the geophysical survey in this AOC indicates that no "UST like" anomalies were detected in the areas surveyed. A significant portion of this AOC could not be surveyed due to equipment and supplies that could not be readily moved. An anomaly believed to be related to a septic tank was detected in the approximately 10-feet north of the landscape office.
- AOC6 – Former gas station - TPI performed an EM survey of the asphalt and grass covered areas of the AOC and no "UST like" anomalies were detected. A more detailed EM and GPR scan of the areas of the former waste oil and heating oil USTs was also performed and again no "UST like" anomalies were detected in these areas. Relatively high EM readings were detected around the AST, however, TPI could not conclusively verify whether these readings were related to the AST or possibly an UST located under the AST. GPR scans around the edges of the AST did not reveal a distinct "UST like" anomaly.
- Results of the geophysical survey indicate that three distinct metallic "UST like" EM/GPR anomalies were detected in the areas surveyed. The three suspect USTs were detected in AOCs 1, 3, and 4. Although unlikely, the possibility of the existence of an UST under the AST at the gas station remains.

TPI completes non-intrusive geophysical surveys using equipment and techniques representing best available technology. TPI does not accept responsibility for survey limitations due to inherent technological limitations or unforeseen and varying site-specific conditions such as metal-reinforced concrete. In practical terms, TPI serves to reduce the risk of encountering subsurface utilities during excavation operations or greatly increase the chance of locating man made subsurface objects depending on the goal of the project. The results of this investigation should only be used as a tool and should not be considered a guarantee regarding the presence or absence of USTs or piping.

If you should require additional information or have any questions, please do not hesitate to contact me at the above phone number or email me at ffendler@tpienv.com.

Sincerely,

Frank Fendler

Frank Fendler, M.S, P.G.
President

Appendix A

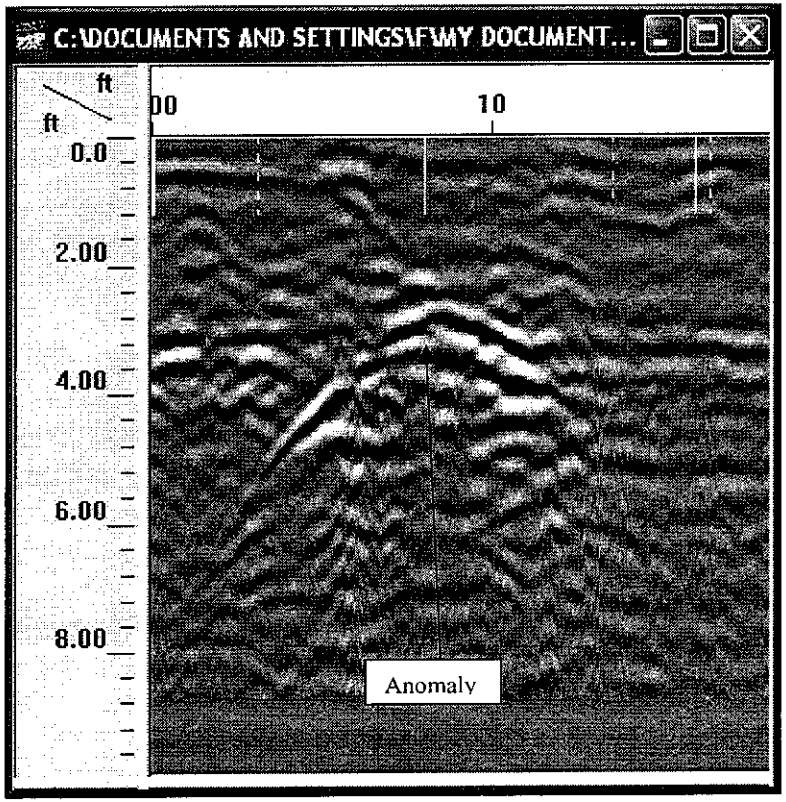
Geophysical Survey Data & Results

PO Box 518
New Hope, PA 18938

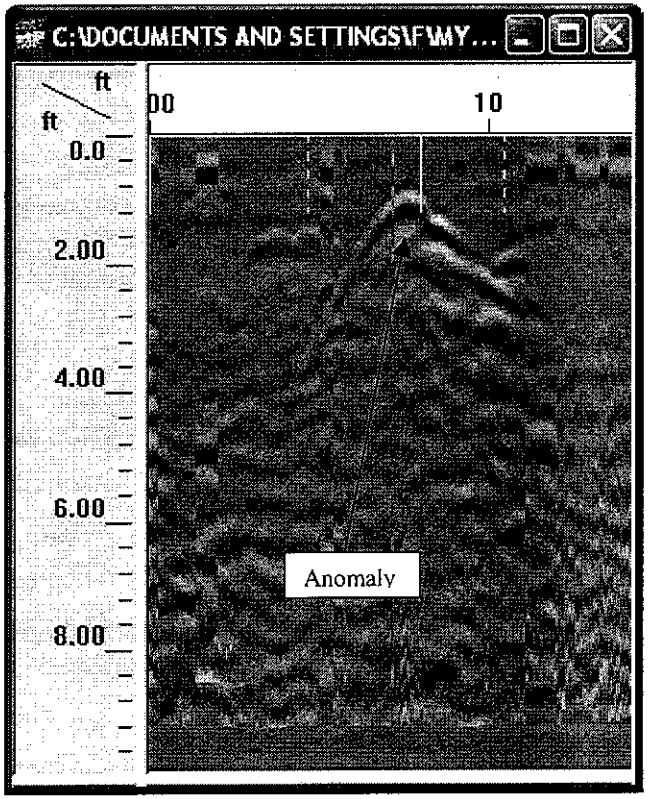
888-204-3266-Phone

tpi@tpienv.com
www.tpienv.com

GPR Transect 150
East Across UST1



GPR Transect 150
West Across UST2



PO Box 518
New Hope, PA 18938
888-204-3266-Phone
tpi@tpienv.com
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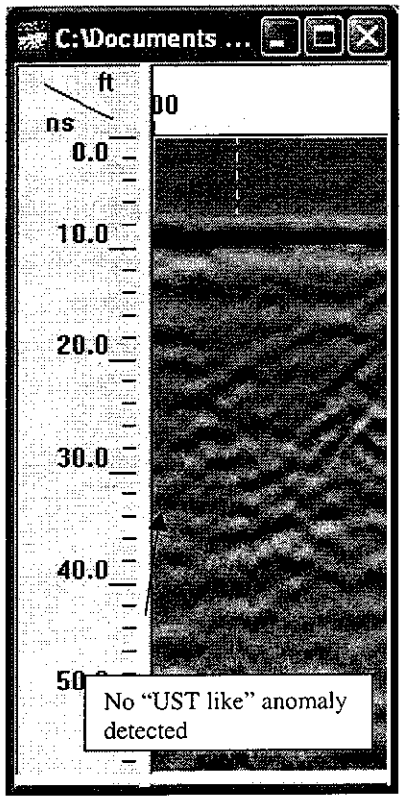
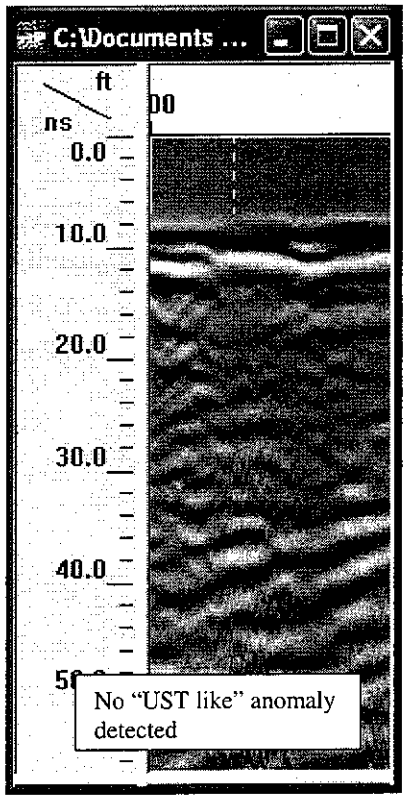
GPR Transect 166
South Across EM Anomaly Under AST
(see Figure 1)



GPR Transect 167
South Across EM Anomaly Under AST
(see Figure 1)



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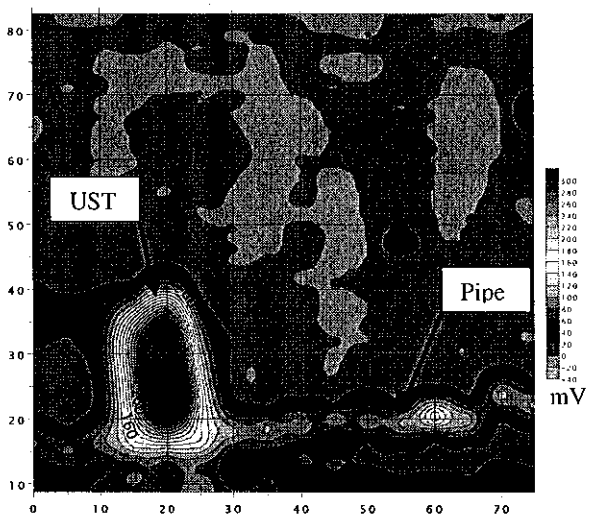
Attachment A
TPI's Geophysical Survey Equipment & Methods

Geonics EM61-MK2

The EM61 is a high resolution time-domain metal detector which is used to detect ferrous and non-ferrous metallic objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field, which induces eddy currents in nearby metallic objects. The decay of these currents is measured by two receiver coils mounted on the coil assembly. The responses are recorded and displayed by an integrated computer based digital data logger with real time numberical and graphic display. Two ports on the logger allows simultaneous collection of EM and GPS data. For further processing and interpretation data can be transferred to a laptop computer in the field and a color contoured map of the EM61 reponse is prepared (see below).

EM61 Color Contoured Map



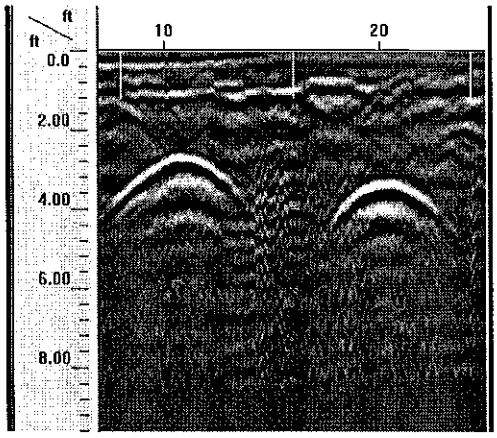
The EM61-MK2 detects a single 55 gallon drum at a depth of over 10-feet beneath the instrument, yet it is relatively insentsitive to interference from nearby surface metal such as fences, buildings, cars, etc. By making the measurement at a relatively long time after termination of the primary pulse, the response is practically independent of the electrical conductivity fo the ground.

Due to it unique coil arrangements, the response curve is a single well defined positive peak greatly facilitating quick and accurate location of the target, the depth of which can usually be estimated from the width of the response and/or from relative response from each of the two receiver coils.

GPR

This method is one of the most powerful and cost effective methods of locating man made objects and stratigraphic layers in the subsurface. It is an active method that transmits electromagnetic pulses into the ground, the radar pulses are reflected from materials or layers of differing dielectric and electrical conductive properties. The GPR computer measures the elapsed time in billionths of a second (nanoseconds) from when the pulses are sent and when they are received back at the surface that can then be converted to depth. Results of the radar scan are displayed as a continuous cross section of the subsurface on the computer screen in real time. Metallic materials such as tanks, pipes conduits, rebar etc. have vastly different dielectric properties then soils so there reflections are striking and relatively easy to identify. Pipes and tanks constructed of PVC, concrete, and terracotta also produce distinct reflections, however, these reflections are typically not as striking as metallic materials. A typical radar image of two metallic underground storage tanks is found below.

GPR Image Of Two Metallic USTs



GPR surveys are conducted with the most advanced GPR equipment currently available

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Attachment A
TPI's Geophysical Survey Equipment & Methods

including a Geophysical Survey Systems (GSSI) SIR-3000 subsurface radar unit with a 400 MHz antenna. The 400 MHz antenna has a depth range of approximately 20-feet and other antennas may be employed with the system depending on specific site conditions and objectives of the survey. The GPR transect data may be saved on the internal hard drive and transferred to a PC for storage, printing, and post processing. GSSI is the world leader in the development of GPR systems and was the first company to commercialize GPR in 1970. GPR hardware and software has improved dramatically over the last several years allowing for relatively rapid and economical GPR surveys. With 3-dimensional capabilities, the latest GPR software takes data processing a step farther then the former 2-dimensional viewing method. Three-dimensional visualization helps you to see the whole picture, giving you a powerful tool to interpret complex utility layouts and identify subtle linear features that may have otherwise been missed.

GPR surveys are typically conducted by searching for GPR hyperbolas indicative of subsurface pipes or tanks signatures in the vicinity of known entities. Theses signatures are marked on the ground and areas progressively further from the known entity are scanned and marked. This process is continued until the GPR operator performed enough scans to determine and mark the subsurface pipe, tank or anomaly. During this process the GPR data is typically not saved due to the immense size of the data files. After this phase of the GPR survey is completed, representative GPR transects or grids are performed and saved for the report and post processing. Some of the factors that may negatively affect GPR results include clay soils, rebar in concrete, high moisture content, depth of the target, and the integrity, size, and material of the target.

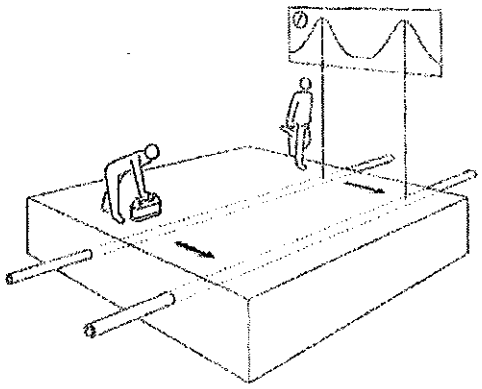
TW-6 EM Unit

TPI routinely employs a Fisher TW-6 electromagnetic metal detector when performing GPR surveys. The TW-6 creates an electromagnetic field with a transmitting coil and measures the strength of that field with a receiving coil. As the TW-6 passes over electrically conductive materials such as metal tanks or drums the field is distorted and the instrument produces an audible alarm based on the degree of the distortion. The TW-6 can detect conductive materials the size of drums or small tanks to depths of 10-feet. The instrument is actually a relatively poor metal detector which makes it ideal for locating large conductive materials such as metal drums, medium to large metal pipes, reinforced concrete pipes, and metal tanks. A more sensitive metal detector would produce "false positives" on small pieces of metal that are typically found in fill and throughout developed sites. If the survey area is underlain by reinforced concrete or cars and other large surficial metallic features are within 10-feet, the TW-6 will not be useful.

Line Locating

Line locating is performed with a Radiodetection RD400 PXL-2 line locator with a 433 HCTX-2 transmitter. The transmitter emits a specific radio or electromagnetic signal which is indirectly induced or directly conducted onto the metallic line. The transmitter is capable of producing frequencies of 512 Hz, 8 kHz, or 33 kHz and the receiver is configured for the specific transmitted frequency. The induced signal is coupled with the line by either using an induction clamp which surrounds an exposed line or placing the transmitter above a buried line and transmitting the signal to it. The receiver may also be used in a passive locate mode (power) to identify the presence of current carrying lines. Nonmetallic lines may also be located by snaking a sonde down accessible lines with push rods. A sonde is a small transmitter that emits a specific electromagnetic frequency which can be detected by the receiver at depths of 12 to 16-feet.

Inductive Sweep With Transmitter/Receiver



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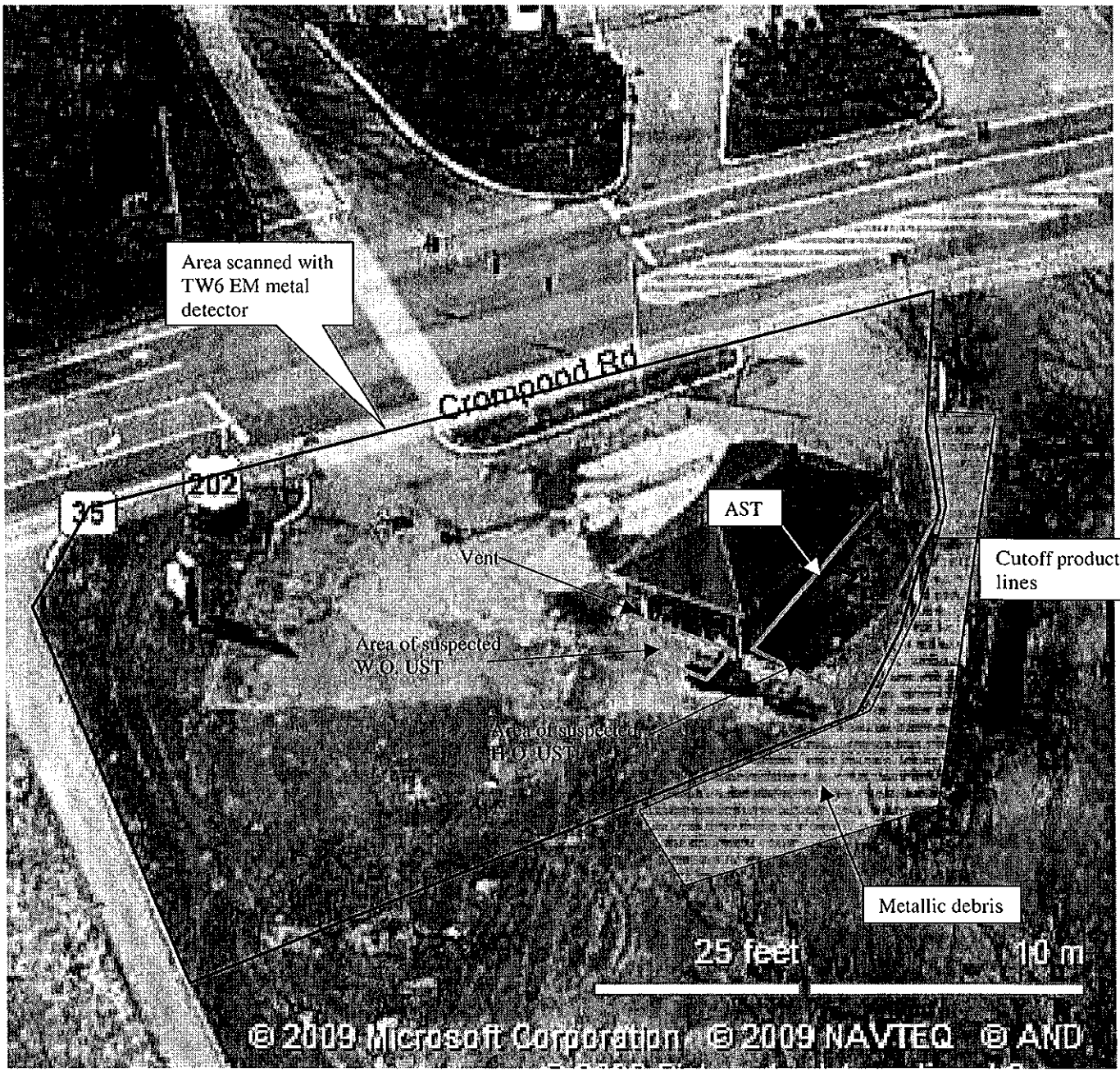
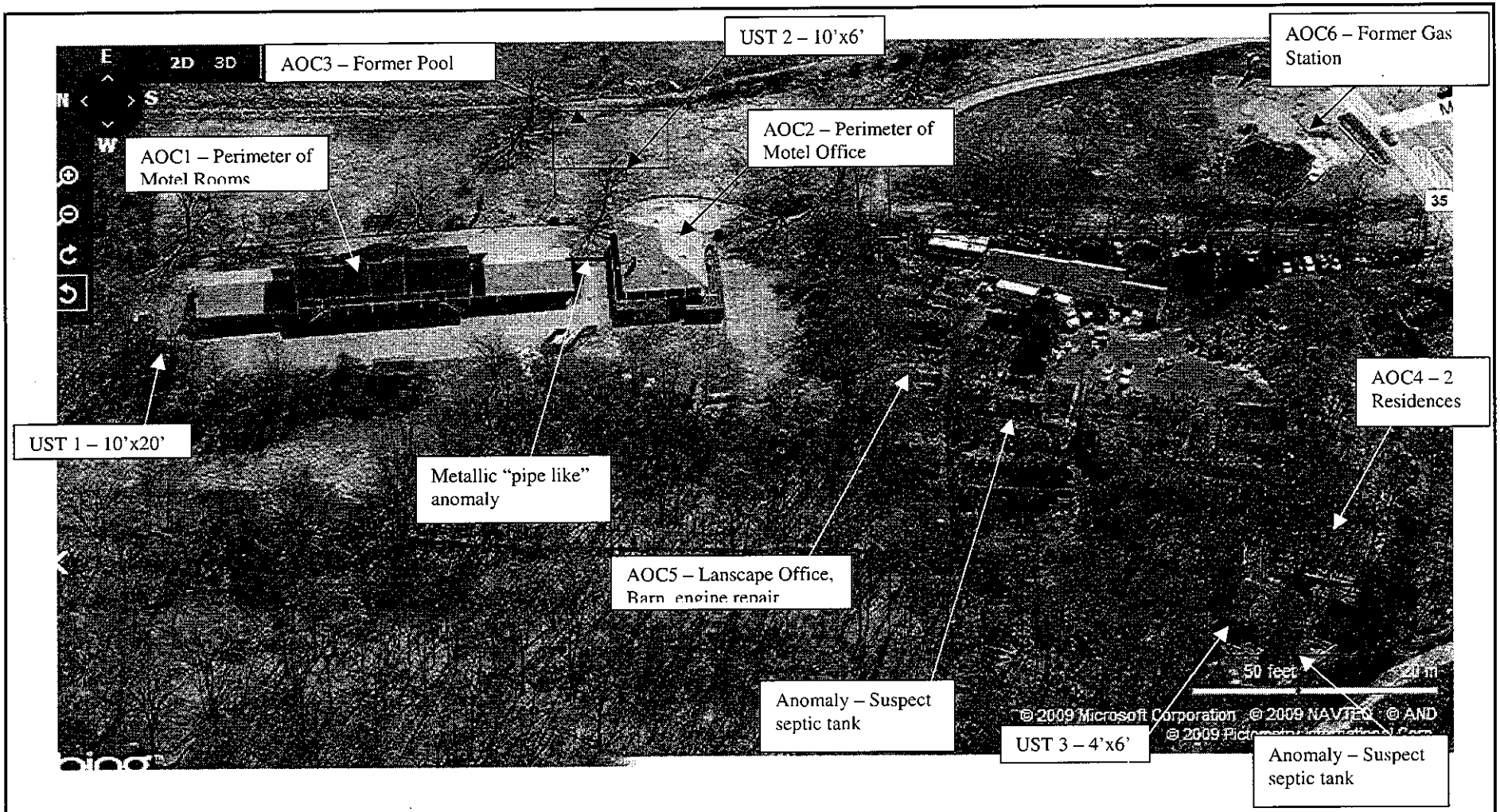
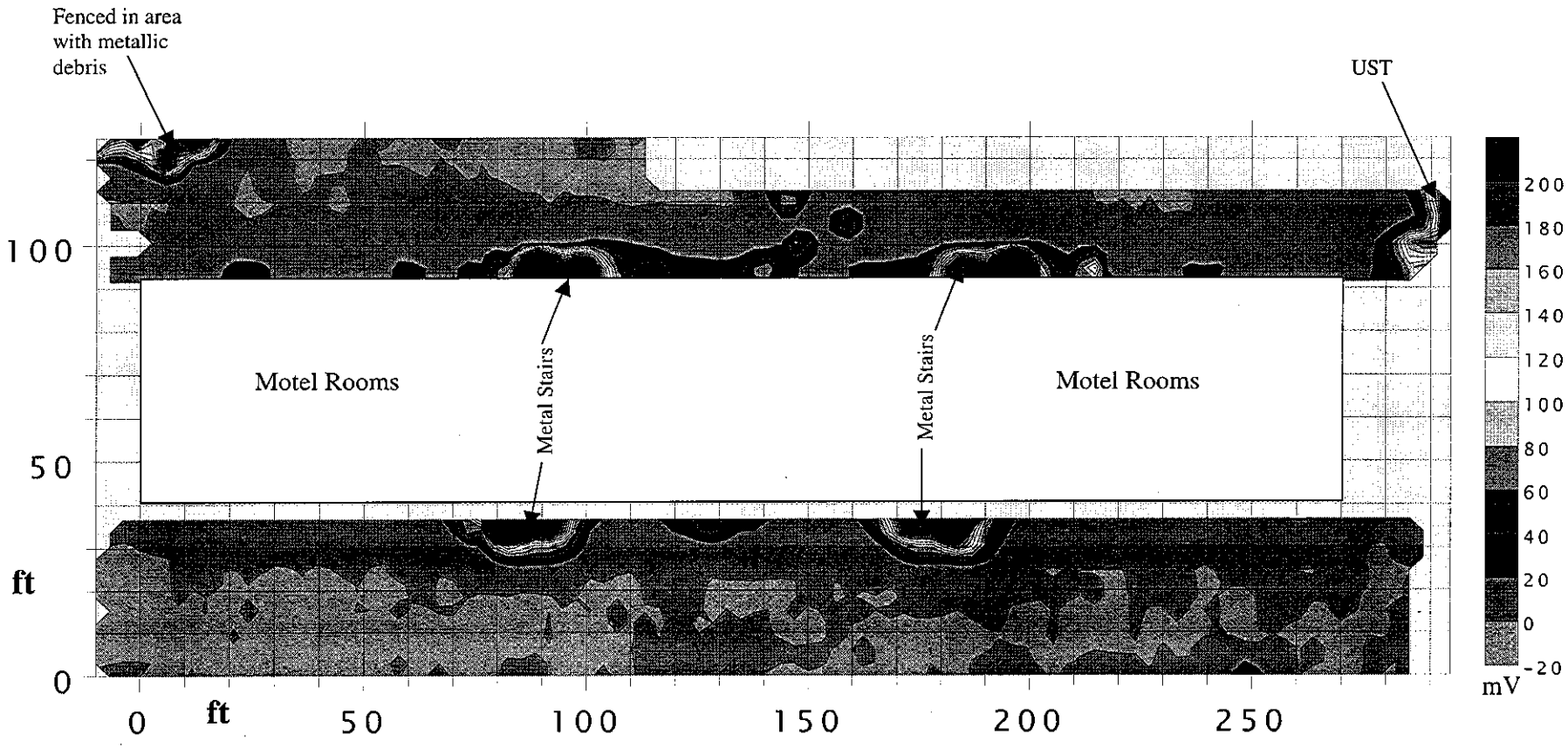


TPI environmental	Scale	Crompond Rd. & Taconic Pkwy – Yorktown, NY		Figure 1
	NTS	Client: EcolSciences	Date: 11-5-09	AOC6 Geophysical Survey Results



TPI environmental	Crompond Rd. & Taconic Pkwy – Yorktown, NY		Figure 1
	Client: EcolSciences	Date: 11-5-09	Geophysical Survey Areas



Channel 3 Relative Response (Mv)							
Depth (ft)	1	2	3	4	5	6	7
55gal. Drum	1700	500	160	60	28	13	7
8" Steel Pipe	1150	340	120	47	21	10	5

Note: See Figure 1 For EM61 Grid Location

TPI environmental	Crompond Rd. & Taconic Pkwy – Yorktown, NY	Figure 3
	Client: EcolSciences / Date: 11-5-09	AOC1 - Relative EM61 Response – Channel D

ATTACHMENT B

Soil Boring Logs

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PLT-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-4	Brown sandy silt with rock fragments Refusal @ 4'
	Tried multiple (4) locations - all had refusal @ 3-4' No samples collected

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PLT-2

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-3.5	Brown sandy silt with concrete and rock fragments
3.5-10	Gray fine to medium sand with rock No PID Sample 6.5-7 below invert
10-12	Brown to white medium to coarse sand

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PLT-3

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-5	Brown sandy silt with rock
5-8	Gray fine to medium sand with rock No PID Sample 6.5-7 below invert

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PLT-4

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-5	Brown sandy silt with rock
5-8	Gray fine to medium sand with rock No PID Sample 6.5-7 below invert

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: MBT-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-1	Brown fine to medium sand PID up to 8 ppm

SAMPLE LOG:

REMARKS:

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-1

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): | (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Grass with 4" - 6" topsoil		☒	Moist				0		
		Brown Clayey/silty sand with cobbles			Sat				0		
	2.0'	2' - Refusal (Bottom of Pool)									
	4.0'										
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▒ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
■ Rock Core	J - Jetting	DC - Driving Casing
▣ No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-2

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): | (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No.	Recovery	Instrument Reading	Water Level (Data)	
	0'	Grass with 4" - 6" topsoil			Moist				0		
		Brown Clayey/silty sand with cobbles							0		
	2.0'	As above with scrap lumber, plywood, plastic & metal pipe, tar paper and other metal		☒	Sat						
	4.0'	4' - Refusal (Bottom of Pool)			Sat						
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▨ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
◨ Rock Core	J - Jetting	DC - Driving Casing
▣ No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-3

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No.	Recovery	Instrument Reading	Water Level (Data)	
	0'	Grass with 4" - 6" topsoil									
		Brown Clayey/silty sand with cobbles			Moist					0	
				☒						0	
	2.0'	As above with scrap lumber, plywood, plastic & metal pipe, tar paper and other metal			Sat						
					Sat						
	4.0'	4' - Refusal (Bottom of Pool)									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▨ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
■ Rock Core	J - Jetting	DC - Driving Casing
NR No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-4

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Grass with 4" - 6" topsoil Brown Clayey/silty sand 1' - Refusal (Bottom of Pool)		☒	Moist					0	
	2.0'										
	4.0'										
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▩ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
■ Rock Core	J - Jetting	DC - Driving Casing
▦ No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-5

Client	Costco Wholesale			Project No. HW09-157	Permit No.
Site	3200 Crompound Rd.				Sheet 1 Of 1
Date Started	11/05/09	Date Completed	11/05/09		
Elevation (TC)		(GS)			
Hole Diameter	Test Pit	Boring Method	Excavator	Development Method	NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Grass with 4" - 6" topsoil			Moist				0		
		Brn Sand with silt and clay Abundant Cobbles							0		
	2.0'			☒	Moist				0		
		Brn Sand with silt and clay Abundant Cobbles							0		
					Moist Dry						
	4.0'	4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▨ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
■ Rock Core	J - Jetting	DC - Driving Casing
NR No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-6

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): | (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Debris on Surface									
		Clayey/silty sand Medium Brown			Moist				0		
				☒	Moist				0		
	2.0'	Clayey/silty sand Medium Brown abundant cobbles							0		
					Moist				0		
	4.0'	TD - 4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▨ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
■ Rock Core	J - Jetting	DC - Driving Casing
▦ No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-7

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No.	Recovery	Instrument Reading	Water Level (Data)	
	0'	Debris on Surface									
		Clayey/silty sand Medium Brown			Moist				0		
									0		
	2.0'				Moist						
		Clayey/silty sand Medium Brown abundant cobbles							0		
					Moist				0		
	4.0'	TD - 4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
Rock Core	J - Jetting	DC - Driving Casing
No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-9

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): | (GS):
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Debris on Surface			Moist				0		
		Clayey/silty sand Medium Brown		☒					0		
	2.0'				Moist						
		Clayey/silty sand Medium Brown abundant cobbles							0		
					Moist				0		
	4.0'	TD - 4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▒ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
◨ Rock Core	J - Jetting	DC - Driving Casing
NR No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-8

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): | (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Wood Debris on Surface									
		Clayey/silty sand Medium Brown		☒	Moist				0		
									0		
	2.0'				Moist						
		Clayey/silty sand Medium Brown abundant cobbles							0		
					Moist				0		
	4.0'										
		Clayey/silty sand Medium Brown abundant cobbles									
	6.0'	TD - 6'									
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▩ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
◨ Rock Core	J - Jetting	DC - Driving Casing
NR No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-11

Client	Costco Wholesale			Project No. HW09-157	Permit No.
Site	3200 Crompound Rd.				Sheet 1 Of 1
Date Started	11/05/09	Date Completed	11/05/09		
Elevation (TC)		(GS)			
Hole Diameter	Test Pit	Boring Method	Excavator	Development Method	NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Debris on Surface									
		Clayey/silty sand Medium Brown			Moist				0		
									0		
	2.0'				Moist						
		Clayey/silty sand Medium Brown abundant cobbles		☒					0		
					Moist				0		
	4.0'	TD - 4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▨ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
◧ Rock Core	J - Jetting	DC - Driving Casing
NR No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-10

Client: Costco Wholesale | Project No. HW09-157 | Permit No.
Site: 3200 Crompound Rd. | Sheet 1 Of 1
Date Started: 11/05/09 | Date Completed: 11/05/09
Elevation (TC): (GS)
Hole Diameter: Test Pit | Boring Method: Excavator | Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No.	Recovery	Instrument Reading	Water Level (Data)	
	0'	Debris on Surface									
		Clayey/silty sand Medium Brown			Moist				0		
									0		
	2.0'				Moist						
		Clayey/silty sand Medium Brown abundant cobbles							0		
					Moist				0		
	4.0'	TD - 4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type
- Driven Split Spoon
- Pressed Shelby Tube or Macro
- Rock Core
- No Recovery

Development Method
- AL - Air Lift
- P - Pumping
- J - Jetting
- SB - Surge Block

Boring Method
- HSA - Hollow Stem Auger
- CFA - Continuous Flight Auger
- DC - Driving Casing
- MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-12

Client: Costco Wholesale — Project No. HW09-157 — Permit No.
Site: 3200 Crompound Rd. — Sheet 1 Of 1
Date Started: 11/05/09 — Date Completed: 11/05/09
Elevation (TC): ____ (GS)
Hole Diameter: Test Pit — Boring Method: Excavator — Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Debris on Surface									
		Clayey/silty sand Medium Brown			Moist				0		
									0		
	2.0'				Moist						
		Clayey/silty sand Medium Brown abundant cobbles							0		
					Moist				0		
	4.0'	TD - 4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
Rock Core	J - Jetting	DC - Driving Casing
No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-13

Client: Costco Wholesale — Project No. HW09-157 — Permit No.
Site: 3200 Crompound Rd. — Sheet 1 Of 1
Date Started: 11/05/09 — Date Completed: 11/05/09
Elevation (TC): — (GS)
Hole Diameter: Test Pit — Boring Method: Excavator — Development Method: NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Old Hot water Heaters Clayey/silty sand Medium Brown		☒	Moist				0 0		
	2.0'	TD - 2'									
	4.0'										
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▨ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
◨ Rock Core	J - Jetting	DC - Driving Casing
NR No Recovery	SB - Surge Block	MD - Mud Drilling

ECOLSCIENCES, INC.
TEST PIT LOG

Boring No. TP-14

Client	Costco Wholesale		Project No.	HW09-157	Permit No.
Site	3200 Crompound Rd.				Sheet 1 Of 1
Date Started	11/05/09	Date Completed	11/05/09		
Elevation (TC)		(GS)			
Hole Diameter	Test Pit	Boring Method	Excavator	Development Method	NA

Elev. (ft.)	Depth (ft.)	Description	Strata Column	Sample	Moisture Content	Blows on Sampler 0" 6" 12" 18" 6" 12" 18" 24"	Sample No	Recovery	Instrument Reading	Water Level (Data)	
	0'	Debris on Surface			Moist				0		
		Clayey/silty sand Medium Brown							0		
	2.0'			☒	Moist						
		Clayey/silty sand Medium Brown abundant cobbles							0		
					Moist				0		
	4.0'	TD - 4'									
	6.0'										
	8.0'										
	10.0'										

Sampler Type	Development Method	Boring Method
☒ Driven Split Spoon	AL - Air Lift	HSA - Hollow Stem Auger
▨ Pressed Shelby Tube or Macro	P - Pumping	CFA - Continuous Flight Auger
◧ Rock Core	J - Jetting	DC - Driving Casing
NR No Recovery	SB - Surge Block	MD - Mud Drilling

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: MT-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-9	Brown to white fine to medium sand with gravel No PID
9-12	Weathered micacous bedrock No PID
	Sample 9.5-10, 6 inch depth interval below tank

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: MT-2

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-9	Fill brown with fine to medium sand with gravel and rock
9-12	Weathered micacous bedrock No PID Sample 9.5-10

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: MT-3

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-12	Brown to white sand with gravel, brick, and stone No PID Sample 9.5-10

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: MT-4

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-9	Fill brown fine to medium sand with gravel and rock
9-12	Weathered micacous bedrock No PID sampled 9.5-10

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: MT-5

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-167

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
2-4	Refusal Moved to other location nearby and same refusal - no samples collected

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: MT-6

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-167

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
2-4	Refusal Moved to other location nearby and same refusal - no samples collected

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: TA-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-6	Gray sandy silt with gravel fill
6-11	Pea gravel backfill, no PID Groundwater @ 7' in boring
11-12	Gray sandy silt (native) PID to 104 ppm, petroleum odor Sample 11.5-12
12-13	Gray sandy silt with gravel, PID to 12 ppm
13-15.5	Gray to light brown fine to medium sand

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PI-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-8	Fine to medium sand with pea gravel backfill No PID
8-12	Gray fine to medium sand, petroleum odor PID of 21 @ 9.0
	PID of 185 @ 10 Sample 10-10.5 PID of 1.2 @ 12

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PI-2

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-1	Gray fine to medium sand with gravel (fill) No PID
1-2.5	Brown Silty Clay PID of 58 ppm
2.5-5.0	Gray stained silty clay with petroleum odor PID 194 ppm at 4' and 21 ppm at 5'
5.0-10.0	Gray to olive green silty sand PID 199 ppm at 6', 108 ppm at 7', and 175 ppm at 8'
10.0-12.0	Gray medium to coarse sand no PID readings

SAMPLE LOG: Sampled at 6-6.5 feet from highest PID reading
groundwater encountered at 8.5 feet

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PI-4

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-2	Gray to black fine to medium sand with gravel fill
2-5	Brown to dark brown sandy silt PID of 9 @ 5'
5-12	Stained fine to medium silty sand Petroleum odor Sample 7-7.5
	PID of 165 @ 7' PID of 15 @ 6' PID of 86 @ 8'
	PID of 90 @ 9.5' PID of 46 @ 12'
12-14.5	Fine to medium silty sand, dark brown PID of 36 @ 14'
14.5-16	Light brown to gray stained fine to medium sand No PID

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PI-5

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-1	Black to brown sandy silt with gravel
1-2.5	Brown sandy silt to silt No PID
2.5-7	Gray stained sandy silt Petroleum odor, PID from 30-206
	highest at 4.5' Sample 4.5-5 PID from 140-206 Sample 3.5-7

SAMPLE LOG:

REMARKS:

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BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PI-6

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-9	Brown fine to medium sand with gravel (Bank Run Backfill) No PID, wet @ 9'
9-12	Gray fine to medium sand Petroleum odor
	PID from 76-166 Sample 9-11 Sample @ 9.5-10 @ 166 ppm PID 1.5 @ 12'

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PI-7

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-2.5	Brown fine to medium silty sand No PID
2.5-3.5	PID to 10, Greenish silty sand
3.5-5.5	PID 36-54 Sample 4.0-4.5 gray silty sand
5.5-12	Gray silty sand PID up to 4 @ 10'

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: PI-9

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-3	Brown fine to medium silty sand (fill)
3-5	Brown silty clay PID 4
5	Gray to green fine to medium with petroleum odor and minor staining PID of 36 @ 5
	PID of 84 @ 6 Sample @ 6-6.5 PID of 12 @ 7 PID of 64 @ 8

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: SS-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-3	Orange to yellow brown sandy silt
3-9	Gray sandy silt with some clay PID of 3 ppm @ 7.5 sampled
9-14	Fine to medium gray sand Water approximately 7.5' below grade

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: SS-2

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-6	Brown fine to medium sand
6-12	Gray fine to medium sand No PID
	Sample 7.5-8 presumed both of septic

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: SS-3

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-7	Brown sandy silt
7-12	Brown to gray fine to medium sand No PID Sample 7.5-8

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: SS-4

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-7	Brown sandy silt
7-12	Brown to gray fine to medium sand No PID Sample 7.5-8

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: GWO-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-2.5	Black sandy silt fill material
2.5-8.0	Brown sandy silt with some gravel PID 4-8 to 8'
8.0-12	Gray stained fine to medium sand PID of 89-208
	Sample @ 10-10.5 from highest PID

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: GWO-2

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-3	Brown to gray sandy silt with fill
3-5.5	Black sandy silt with petroleum odor PID to 8
5.5-7	Brown to black sandy silt PID to 4
7-12	Gray stained fine to medium sand PID 80-102, petroleum odor
	Sample from 3.5-4 from most suspect black material as a number of other samples already characterize the 7-12 contained

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: GWO-3

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-3	Brown to gray sandy silt with fill No PID
3-6	Brown sandy silt (native?) No PID
6-12	Gray stained fine to medium sandy with PID of 8 @ 7' Petroleum odor and staining
	PID to 197 PID to 143 @ 12'

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: GHO-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-4	Fill black to brown sandy silty gravel
4-7.5	Pea gravel
7.5-8	Gray stained silt PID 3, petroleum odor
	Sample 7.5-8 Refusal @ 8

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: GHO-2

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-3	Black and brown sandy silt Gravel fill
3-5.5	Brown sandy silt
5.5-11.5	Gray stained fine to medium sandy silt PID up to 50
11.5-12	Gray clay PID 110 Sample 11.5-12
	Petroleum odor
	2.5-3 black silt with slight odor PID 3 VO sample collected PA-1

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: GHO-3

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-3	Brown sandy silt No PID
3-5.5	Black stained sandy silt PID 2 PA-2 sample
5.5-9	Gray petroleum stained soil No PID until 7.5
	7.5-9 up to 142 ppm Sample 8.5-9 Refusal @ 9

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: GHO-4

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-2.5	Dark brown to black fill
2.5-7	Brown sandy silt No PID
7-9	Gray fine to medium sand Petroleum staining
	PID to 48

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: HL-1

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-7	Poor recovery Approximately 1' of gravel
7-10	Black stained fine to medium sand Petroleum odor, heavy staining
	PID to 87 Sample 8-8.5 highest PID
10-12	Gray fine to medium sand Petroleum odor
	PID to 25 (likely gas-related contamination)

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: HL-2

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-157

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-7	Poor recovery 1' of gravel
7-12	Black to gray stained fine to medium sand PID to 165 Sample 8-8.5 highest PID

SAMPLE LOG:

REMARKS:

BOREHOLE LOG

EcolSciences, Inc.

Environmental Management & Regulatory Compliance

Borehole Number: HL-3

SITE LOCATION: Yorktown, NY

LOGGED BY: P. Hansen

PROJECT NUMBER: HW09-167

CONTRACTOR: TPI Environmental

DATE LOGGED:

DEPTH (INCHES)	SAMPLE DESCRIPTION / SOIL TYPE
0-7	Poor recovery 1' of gravel
7-10	Black stained fine to medium sand Petroleum odor, heavy staining

SAMPLE LOG: sampled from 8-8.5 from most visually suspect material

REMARKS:

ENVIRONMENTAL HEALTH AND SAFETY PLAN/ COMUNITY AIR MONITORING PLAN FOR PROPOSED COSTCO WHOLESALE RETAIL STORE 3200, 3216, 3220 CROMPOND ROAD 3220 OLD CROMPOND ROAD TOWN OF YORKTOWN WESTCHESTER COUNTY, NEW YORK

Prepared for:

Retail Stores Construction Company, Inc.
500 Old Country Road
Garden City, New York 11530

Prepared by:

EcolSciences, Inc.
75 Fleetwood Drive, Suite 250
Rockaway, New Jersey 07866
(973) 366 - 9500

August 2011

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1. INTRODUCTION

The following Environmental Health and Safety Plan/Community Air Monitoring Plan (EHASP/CAMP) provides the technical training requirements and general environmental health and safety procedures for personnel involved in the demolition, remediation, and site redevelopment of the property located at 3200, 3216, and 3220 Crompond Road and 3220 Old Crompond Road in the Town of Yorktown, Westchester County, New York (herein referred to as "site"). It also provides a real-time Community Air Monitoring Plan prepared in accordance with NYSDEC guidelines designed to ensure that permissible exposure limits are not exceeded for tenants, occupants, and residents of the properties surrounding the site.

1.1 Background Information

The site is improved with several dilapidated motel buildings, a former gasoline station, a landscape supply nursery, lawn mower repair shop, and two single-family residences. Phase I Environmental Site Assessment and Phase II Investigation activities identified several underground storage tanks, aboveground storage tanks, septic systems, volatile organic contaminated soils, and naturally occurring heavy metals in the soil at concentrations above NYSDEC soil cleanup criteria. In addition, lead-based paint and asbestos-containing materials were identified in conjunction with several of the buildings. This EHASP/CAMP outlines the technical training requirements and general environmental monitoring procedures that will be implemented during soil-related site development activities, underground storage tank removals, and lead-based paint demolition for the site and includes a community air monitoring program to ensure the safety of the occupants surrounding the site. **This EHASP/CAMP does not include procedures for air monitoring during asbestos abatement. Health and safety oversight during asbestos abatement activities will be the responsibility of the abatement contractor and an independent third party air monitor.**

2. HEALTH AND SAFETY/ENVIRONMENTAL MONITORING PROCEDURES

The following EHASP/CAMP outlines the technical training requirements and general environmental monitoring procedures that will be implemented during soil-related site development activities, underground storage tank removals, PCB remediation, and lead-based paint demolition for the site and includes a community air monitoring program to ensure the safety of the occupants surrounding the site. This EHASP/CAMP incorporates training requirements, safety considerations, and contaminant exposure levels and has been prepared for field use. The Environmental Health and Safety Officer (EHSO) will monitor on-site activities for compliance with this EHASP/CAMP.

This HASP/EMP is limited to oversight of non-asbestos related environmental issues only and does not encompass construction health and safety (i.e. equipment operation, etc.) that would otherwise be associated with normal construction/earthworking activities, which will be the contractor's and/or client's responsibility. It is the responsibility of any on-site Contractor and/or Subcontractor, to comply with safe work practices in accordance with 29 CFR 1926.

All field activities associated with the soil-related site development activities, underground storage tank removals, PCB remediation, and lead-based paint building demolition at the site will be conducted in accordance with Occupational Safety and Health Administration (OSHA) regulations (29 CFR 1910.120 and 29 CFR 1926.65), as applicable and NYSDEC Final DER-10 guidelines, 6 NYCRR Parts 375 and 612-14. 29 CFR 1910.120 and 29 CFR 1926.65 are applicable to the environmental remediation and soil handling operations that will be conducted at this site, unless the contractor can demonstrate that the activities being conducted do not involve employee exposure or the reasonable possibility for employee exposure to environmental health hazards. Those persons involved with the specified activities are required to understand and comply with all of the requirements of this EHASP/CAMP. This EHASP/CAMP is limited to environmental activities (i.e. soil-related site development activities, underground storage tank removals, PCB remediation, and lead-based paint demolition) and monitoring of ambient environmental conditions during the completion of such activities.

Technical training requirements, and general health and safety procedures for all personnel directly involved with the implementation of soil-related site development activities, underground storage tank removals, and lead-based paint demolition activities on the subject property are outlined in the following subsections. This EHASP/CAMP incorporates training requirements, safety considerations, and contaminant exposure levels and has been prepared for field use. This EHASP/CAMP will be implemented by the EHSO.

2.1 Project Scope

The purpose of this EHASP/CAMP is to define the environmental monitoring protocols to be followed during the following site demolition and development activities:

(1) Site preparation/mobilization

(2) Demolition of buildings containing lead-based paint

(3) Underground storage tank, aboveground storage tank, and hydraulic lift removals

(4) PCB Soil Remediation

(5) Excavation and offsite disposal of volatile organic (VO) contaminated soils

(6) Excavation, movement, and handling of soils containing elevated concentrations of naturally occurring heavy metals

The content of this HASP/EMP may change or undergo revision based upon additional information that is derived during additional investigatory or remedial activities. EcolSciences must review and approve any changes proposed prior to implementing the changes to the EHASP/CAMP.

2.2 Training Requirements

An onsite EHSO will be present during site demolition and development activities to ensure that all work is conducted in accordance with good environmental practices. The EHSO is responsible for enforcing the EHASP/CAMP.

Site personnel associated with remedial activities will be trained, as per the applicable OSHA requirements in 29 CFR 1910 and 1926, and will be provided with this site-specific EHASP/CAMP. The EHSO will provide tailgate meetings/safety briefings as necessary to communicate relevant health and safety issues associated with site impacts and site remedial work.

2.2.1. Environmental Monitoring Officer

The EHSO will be present as needed during field activities to ensure that the site demolition, remediation, and development activities are conducted in accordance with this EHASP/CAMP. The EHSO shall undergo minimum training requirements established by 29 CFR 1926.21 and 1926.22, and will have received the mandated 40-hour training course for Health & Safety for Hazardous Waste Site Personnel. Further, the site EHSO will have completed the requisite 8-hour training course for Hazardous Waste Site Supervisors.

2.2.2. Training Requirements for On-Site Workers

All personnel involved with the site demolition and development activities at the site will have undergone minimum training requirements established by 29 CFR 1926.21 and 1926.22, if applicable. These personnel will have received the mandated 40-hour training course for Health & Safety for Hazardous Waste Site Personnel, if required based on the task being completed. 40-hour training is required for all workers conducting the removal of ASTs, USTs, VOC-impacted soil, and PCB-impacted soil. It is the responsibility of the on-site worker's employer to ensure that all workers onsite have received the proper hazardous waste training and to maintain proof of such training.

2.2.3. Medical Surveillance

All applicable on-site personnel (i.e. personnel removing ASTs, USTs, VOC-impacted soil, and PCB-impacted soil) involved with the site demolition, remediation, and development activities must have undergone a baseline medical examination as required by OSHA 29 CFR 1910.120 (b)(4)(ii)(D). The examination must include an OSHA-type evaluation of the worker's ability to wear respiratory protective equipment. Personnel who have undergone medical examination within the past year will not need to be re-evaluated. Medical records are to be kept on file by the respective contractors/employers of the on-site workers.

The Medical Surveillance Program shall be instituted by the employer for applicable employees, as per 29 CFR 1910.(f)(2) – which includes: all employees who are or may be exposed to hazardous substances or health hazards at or above the established permissible exposure limit, above the published exposure levels for these substances, without regard to the use of respirators, for 30 days or more a year; all employees who wear a respirator for 30 days or more a year or as required by 1910.134; all employees who are injured, become ill or develop signs or symptoms due to possible overexposure involving hazardous substances or health hazards from an emergency response or hazardous waste operation. The description of the Medical Surveillance Program is as per 29 CFR 1910.120 (f)(3),(4),(5),(6),(7), and (8) as applicable. It is the responsibility of the on-site worker's employer to ensure that all workers onsite undergo appropriate medical surveillance.

2.2.4. Disclosure of On-Site Contamination

Environmental monitoring procedures will be discussed with the primary contractors working in direct contact with on-site soils, tanks, lifts or lead-based paint. A copy of this EHASP/CAMP will be provided to the client and the primary contractors involved with the site demolition and development activities. The primary contractors will be responsible for notifying

their employees and all subcontractors as to the potential of coming in contact with on-site contaminants and will be responsible for keeping a log of the hours worked on-site as per OSHA 29 CFR 1910.20.

2.3 General Environmental Monitoring Procedures

The following general procedures will be implemented to minimize contact with soil and/or groundwater contaminants:

- Potential contact with contaminants will be minimized.
- Eating, drinking, chewing gum or tobacco, taking medication, and smoking will be prohibited in work areas where the possibility for the transfer of contaminants exists.
- A copy of this site-specific EHASP/CAMP will be provided to the client and primary site-contractor prior to commencing work. It is the responsibility of the Client to provide copies of this plan to all applicable contractors and workers.
- Any required protective outer clothing will be removed and left at a designated drop-off point prior to leaving the work area;
- Upon leaving the work area, hands and face will be thoroughly washed; and
- Any accidents or injuries occurring during the remediation of on-site soils will be reported to the EHSO. All injured personnel will submit a return to work approval signed by a physician prior to returning to work.

2.4 Hazard Ranking and Identification

On-site hazards are classified into four major categories: A) physical; B) chemical; C) physiological stress; and D) biological. These categories are defined as follows:

A. **Physical Hazards** – Physical hazards include close proximity to buildings, motor vehicle and heavy equipment, compressed gas cylinders, hand and power tools, electric hazards (i.e., overhead wires, underground utilities), noise, and falls (i.e., slip and trip hazards and falls in open trenches).

B. **Chemical Hazards** – Chemical hazards include accidental exposure to residual chemicals in on-site soils and groundwater encountered during excavation, if any.

C. **Physiological Stress** – Physiological stress hazards include heat stress and/or cold stress.

D. **Biological Hazards** – Biological hazards include stray animals, insect pests, and contact with irritant plants.

This EHASP/CAMP analyzes the potential site hazards and safety and health risks as described below.

HAZARD IDENTIFICATION		
PHYSICAL HAZARDS	(X) Overhead Wires	
	(X) Underground Utilities	
	(X) Heavy Equipment	
	( ) Confined Space - Permit Required	
	(X) Trips and Falls	
	(X) Power and Hand Tools	
	(X) Slips, Trips, Falls	
	(X) Noise	
CHEMICAL HAZARDS	Chemical Types	(X) Solid
		( ) Liquid
		( ) Sludge
		( ) Vapor
	Chemical Characteristics	( ) Volatile
		(X) Toxic
		( ) Ignitable
		( ) Corrosive
		( ) Caustic
STRESS HAZARDS	(X) Heat	(X) Cold
BIOLOGICAL HAZARDS	Poison Ivy and biting insects	
RADIATION HAZARDS	None	

SITE HAZARD RANKINGS/ANALYSES			
Task 1: Site preparation/mobilization			
Identified Physical Hazards	Heavy equipment, power tools, underground utilities, slips, trips, falls, noise		
Identified Chemical Hazards	Volatile organics and heavy metals		
Hazard Ranking	( ) High	(X) Medium	( ) Low
Task 2: Demolition of buildings containing lead-based paint			
Identified Physical Hazards	Heavy equipment, power tools, underground utilities, slips, trips, falls, noise		
Identified Chemical Hazards	Heavy metals		
Hazard Ranking	( ) High	(X) Medium	( ) Low
Task 3: Underground storage tank, aboveground storage tank, and hydraulic lift removals			
Identified Physical Hazards	Heavy equipment, power tools, underground utilities, slips, trips, falls, noise		
Identified Chemical Hazards	Volatile organics and heavy metals		
Hazard Ranking	( ) High	(X) Medium	( ) Low
Task 4: Excavation and offsite disposal of volatile organic (VO) contaminated soils			
Identified Physical Hazards	Heavy equipment, power tools, underground utilities, slips, trips, falls, noise		
Identified Chemical Hazards	PCBs		
Hazard Ranking ( ) High	(X) Medium	( ) Low	

Task 4: Excavation and offsite disposal of volatile organic (VO) contaminated soils s			
Identified Physical Hazards	Heavy equipment, power tools, underground utilities, slips, trips, falls, noise		
Identified Chemical Hazards	Volatile organics and heavy metals		
Hazard Ranking	( ) High	(X) Medium	() Low
Task 5: Excavation, Handling, Site Development with metals contaminated soil			
Identified Physical Hazards	Heavy equipment, power tools, underground utilities, slips, trips, falls, noise		
Identified Chemical Hazards	Volatile organics and heavy metals		
Hazard Ranking	( ) High	(X) Medium	() Low

2.5 Exposure Limits

Ambient environmental conditions will be routinely monitored by the on-site EHSO to ensure that on-site personnel and residents are not exposed to the harmful constituents in on-site soils during the normal course of fieldwork.

2.5.1. New York State DEC and DOH Limits for VOCs and Dust

According to the New York State DEC and DOH, if the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds five (5) ppm above background (but is less than 25 ppm), work activities must be temporarily halted and corrective actions taken. Work can then proceed after corrective actions have been taken to reduce the organic vapors provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or occupied structure (which ever is less) is below five (5) ppm over background for the 15 minute average. If the organic vapor level is above 25 ppm at the perimeter of the work area after corrective actions have been taken, work must be shutdown.

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. Monitoring should consist of real-time monitoring equipment capable of measuring particulate matter less than 10 microns (PM-10) in size. If the downwind PM-10particulate level is 100 micrograms per cubic meter ($\mu g/m^3$) greater than background for a 15-minute period or if airborne dust is observed leaving the work area, dust suppression activities must be employed. Work may proceed provided that PM-10 levels do not exceed 150 $\mu g/m^3$ of the background concentration and no visible dust is observed migrating from the work area.

2.5.2. Permissible Exposure Limits for PCB Remediation

The Occupational Health and Safety Administration (OSHA) Permissible Exposure Limit (PEL) for PCBs is 1.0 milligram per cubic meter (mg/m^3). Continuous air monitoring for particulate

will be conducted by the EHSO during the PCB remediation activities in order to document compliance with the NYSDEC, NYSDOH, and OSHA PEL for total particulates of 0.15 mg/m^3, which is lower than the PCB PEL of 1.0 mg/m^3.

2.6 Community Air Monitoring

In order to ensure that the New York State limits are not exceeded for workers and occupants of the surrounding properties, continuous air monitoring will be performed using organic vapor monitoring equipment and/or real-time aerosol monitoring equipment, as applicable, during all demolition and site development work involving soil movement. The Air Monitoring Program is described in the following subsections.

2.6.1. Air Monitoring Program Description

The primary objective of the air-monitoring program is to ensure that organic vapors and/or fugitive dust (as applicable) are not generated during demolition and site development activities. In order to protect the environmental integrity of surrounding site improvements and the health of onsite worker and offsite building occupants, organic vapors and/or the generation of fugitive dust will be monitored with a series of photoionization detectors (VOC monitoring) and/or dust meters (lead-based paint, PCBs, metals) situated around the portion of the site where work is occurring. The following table presents a summary of the monitoring elements that will be employed during demolition and site development activities at the site.

Type of Monitoring	Equipment/ Personnel	Action Level	Planned Action Level Response
Visual	Health & Safety Officer	Visual observation of dust	Cease activities; apply water mist or dust-suppressant foam.
Organic Vapors	Photoionization Detectors	5 ppm for 15 minutes	Temporarily suspend work. If concentration does not drop below 5 ppm, apply vapor suppressant foam. If concentrations are above 25 ppm, cease work.
Fugitive Dust	Dust Meters	100 $\mu g/m^3$ above background	Cease activities; apply water mist or dust-suppressant foam. Work may continue provided dust concentrations do not exceed 150 $\mu g/m^3$.
Weather/Wind Direction	Weather Station	None	PIDs and Dust meters will be repositioned as needed based on wind direction

Real-time organic vapor and dust monitors will be used to continuously monitor for the presence of organic vapors and/or dust generation during all applicable demolition and site development activities. The type of monitoring will be based on the specific task being conducted onsite. Organic vapor monitoring will only be conducted during activities that may generate organic vapors (i.e. tank removals, VO-impacted soil removal, etc.). Dust monitoring will be conducted during the demolition of buildings containing lead-based paint, removal of the PCB-impacted soil,

and earth moving activities with the potential to generate fugitive dust. Ambient atmospheric conditions (i.e. wind speed and direction) will be continuously monitored using a weather station. The initial locations of the monitors will be established at the start of each workday and will be adjusted accordingly to account for wind direction. If the prevailing wind direction changes by greater than 30 degrees (as monitored via an on-site weather station), the designation of the upwind and downwind units will be altered accordingly.

The level of particulates originating from off-site sources will be determined by the reading from the upwind meter. The upwind concentration will then be subtracted from the readings from the downwind monitoring unit. The background readings must be incorporated into calculations to account for variables such as humidity, smog, and dust and diesel exhaust originating from off-site sources. The background-corrected downwind readings will subsequently be used as the benchmark to evaluate the extent that fugitive dust is being generated by the on-site activities and carried to off-site locations, and to determine whether additional dust suppression measures are required.

These background-corrected downwind values will be compared to the NYS established guideline of 5 ppm for organic vapors. If levels exceed an average of 5 ppm above background (but there are no instantaneous readings that exceed 25 ppm) for a 15-minute period, work activities must be temporarily halted and corrective actions taken (i.e. application of vapor suppressant foam). Monitoring will continue throughout the work stoppage and corrective actions and work can resume provided that the total organic vapor concentration averages less than 5 ppm for a 15 minute period at a location 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or occupied structure (which ever is less). If the organic vapor level is above 25 ppm at the perimeter of the work area after corrective actions have been taken, work must be shutdown.

With regard to total particulates, fugitive dust will be monitored for compliance with the NYS established guideline of 100 $\mu g/m^3$ for total particulates (PM_{10}). Specifically, if background-corrected downwind particulate readings reach 100 $\mu g/m^3$, or if visible dust is observed, the dust control measures, including the wetting of the soils with a fine mist of water or the application of biodegradable, short-lived dust suppressant foam, will be implemented to return dust levels to acceptable levels. After mitigation measures have been implemented, work will continue as long as PM_{10} levels do not exceed 150 $\mu g/m^3$. If levels exceed 150 $\mu g/m^3$, work will be suspended until the levels drop below 150 $\mu g/m^3$, at which time work can proceed as long as the levels remain below 150 $\mu g/m^3$.

2.7 Personal Protection/Protective Equipment

Use of Personal Protective Equipment (PPE) is designed to minimize potential exposure of

on-site personnel to chemical hazards. Selection of protective equipment is based upon one or all of the following considerations:

- Toxicity of contaminant(s)
- Physical state of contaminant(s)
- Concentration of contaminant(s) in question
- Permeability of contaminant(s) through PPE
- Abrasion resistance of PPE
- Work functions
- Work load

2.7.1. Hearing Protection

Noise is defined as unwanted sound. OSHA regulations generally apply to 8-hour exposure and consider 85 DBA as an action level for a hearing conservation program. In the absence of sound level measuring instrumentation, any noise/sound preventing normal vocal discussion at arms length distance will dictate the need for hearing protection. Hearing protection will be afforded by disposable ear plugs or ear muffs.

2.7.2. Protective Clothing (Personal Protective Equipment)

In those portions of the site where ambient air reflects normal background conditions, contact with materials during demolition and site development activities will require Level D protection. Level D protection is primarily a work uniform which includes the following:

- Cloth coveralls (uncoated tyvex, as needed).
- Protective gloves (as needed);
- Leather or rubber boots with steel toe and steel shank;
- Hard hat;
- Safety eye wear.
- Hearing protection, as needed

2.8 Site Control

Site control will include: 1) restriction to active work areas via temporary fencing or another means of site control; 2) proper handling of demolition debris and onsite soil; and 4) organic vapor and fugitive dust control via vapor suppressant foam or spraying with water, if necessary. To ensure worker safety, all site workers will log-in and out with the EHSO, and the "buddy system" will be

employed for on-site operations.

The support zone will be designated by the EHSO at the beginning of each task (i.e. demolition, tank removals, site development) and will vary based on the work being conducted. The contaminant reduction zone is the area between the support zone and exclusion zone (i.e. immediate area of demolition, tank removals, or active earthwork). To enter the exclusion zone personnel must have – a buddy, proper PPE, and medical authorization and training as appropriate under OSHA guidelines and maintained by their employer.

2.9 Spill Containment

In the event of a reportable spill, the NYSDEC will be notified. On-site heavy equipment operators and waste disposal contractors associated with the transfer, transport and disposal of site wastes will be equipped with appropriate spill containment provisions. For example, projected items that could be used on-site in the event of a spill may include dedicated brooms, vacuum truck, disposal containers, etc. Any spills would be mitigated, as necessary, to provide protection of human health and the environment. Appropriate post-spill measures (sampling, reporting to NJDEP, etc.) would be conducted in accordance with the NYSDEC DER-10 Technical Guidance to ensure that there are no unmitigated impacts remaining at the site associated with a spill.

3. EMERGENCY RESPONSE

3.1 Plan

The site EHSO will serve as the emergency coordinator. In the unlikely event of an emergency situation (such as fire, explosion, significant release of toxic gas) an air horn or other appropriate device will be sounded for approximately 10 seconds indicating that immediate evacuation procedures are being implemented. All site personnel will evacuate and assemble near the entrance to the site then proceed offsite in a safe manner. The EHSO will ensure that appropriate calls for outside assistance are made, as necessary and coordinate a head-count and verify that all personnel are accounted for. After placing the appropriate calls for outside assistance, the Environmental Monitoring Officer will canvas the emergency area in a safe manner to ensure that the site has been evacuated. Upon the arrival of emergency personnel, this responsibility will be transferred to the appropriate authorities (i.e. police, fire, and/or other emergency personnel). If necessary, the site will ultimately be evacuated and the directions to the hospital are provided, below.

No personnel or residents will be permitted to return to the site until the emergency situation is appropriately resolved.

3.2 Contacts

Emergency Contacts 911

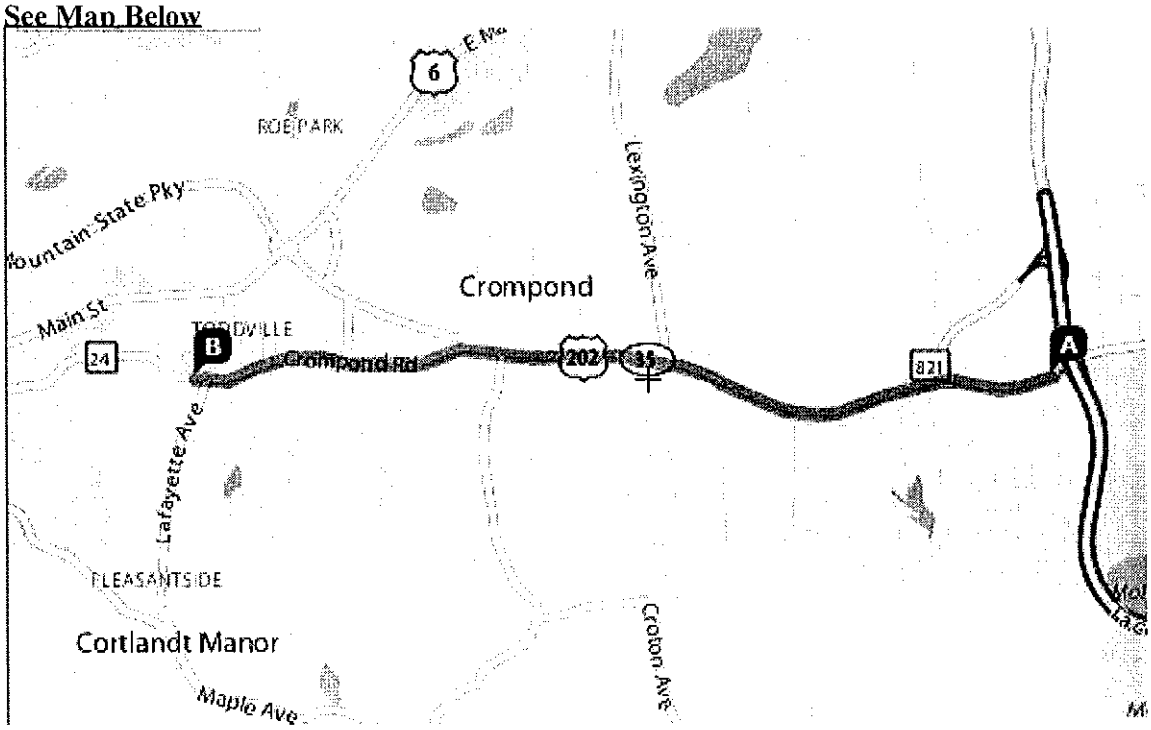
Hospital (Name): Hudson Valley Hospital Center ☎ : 914-737-9000
(Address): 1980 Crompond Road
Cortland Manor, New York 10567

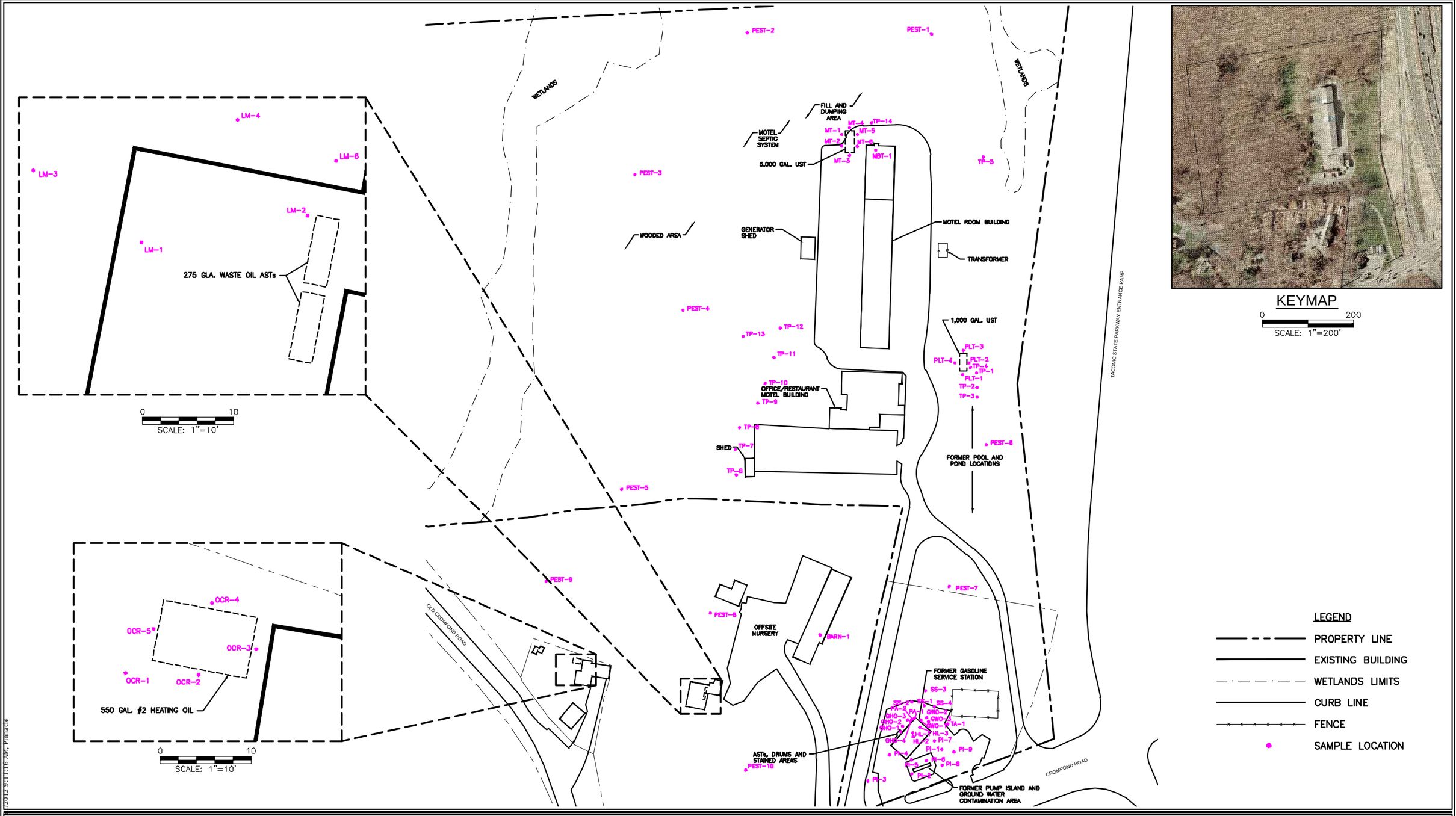
3.3 Directions to Hospital

Upon exiting the site, make right turn onto Crompond Road heading west.

Proceed approximately 3.8 miles and arrive at Hudson Valley Hospital Center on the right.

See Map Below





TRC Engineers, Inc.
7 Skyline Drive
Hawthorne, New York 10532

0 120
SCALE: 1"=120'

PLATE 1
ECOLSCIENCES, INC. SOIL SAMPLE LOCATIONS

COSTCO WHOLESALE
Town of Yorktown, New York

Source: ECOLSCIENCES, INC., "FIGURE 5: SERVICE STATION GROUNDWATER EXCEEDANCES, DATED 11/16/09.

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